# HYGIENE AND RESPECTFUL TO NATURE Fan and Ventilation Systems

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# Product Catalouge







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# About Us

Our company was established in 1995 at the İzmir 1st Industrial Zone. In 2014, we moved to our new production facility, which spans a total area of 3,000m<sup>2</sup>, including 1,500m<sup>2</sup> of covered space, where we currently operate. Sezer Aspiratör specializes in aspirator and fan systems. With a strong R&D infrastructure, our company is committed to continuous development as a core principle.

### Our Vision

Our goal is to further enhance our customer-focused approach and become a global brand, leading the industry in both national and international markets.

### Our Mission

To create customer-focused solutions by providing high-quality, reliable, customized, and swiftly implementable services.





Sezer

dırma Sistemleri

#### Our Quality Policy

Sezer Aspiratör is committed to enhancing the quality of its products and services to meet customer expectations, ensuring delivery at the right time, without errors, and in a complete manner while achieving unconditional customer satisfaction. We guarantee consistently high-quality products that meet customer demands and comply with legal regulations.

All our operations during the production stages are subjected to a rigorous quality control process, carried out by our experienced team using both automated and manual equipment.

The quality management system is certified in accordance with ISO 9001:2015 standards.

#### Occupational Health and Safety

The health and safety of its employees are among Sezer Aspiratör's top priorities. By adopting a meticulous approach to occupational health and safety, necessary precautions are taken to ensure the well-being of all employees. Preventing workplace accidents and enhancing employee motivation contribute to making business processes more efficient.

The main goal of Sezer Aspiratör's occupational health and safety policies is to create a work environment where everyone is safe and to minimize potential risks.

Workstations, equipment, and working conditions are optimized to support the health and well-being of employees.







"SHRA" Model

The extremely low cabin heights allow for the efficient use of valuable space without wastage. The low cabin profiles enable installation within suspended ceilings, raised floors, or sandwich wall interiors.

The SHRA model in heat recovery units operates on the principle of using the heat from the exhausted air to warm the incoming fresh air. Therefore, they ventilate spaces without the need for an additional heat source. This feature makes them ideal ventilation units for places such as discotheques, nightclubs, restaurants, bars, and cafes.

SHRA model heat recovery units are installed within suspended ceilings using suspension elements. Therefore, they do not require a structural or metal profile base.

SHRA model heat recovery units feature a single-wall body coated with 6mm thick NFAF. Another characteristic of SHRA model heat recovery units is that they can be used with single split, multi-split, or variable refrigerant flow (VRF) systems that lack fresh air supply, effectively addressing this deficiency without any significant thermal loss. Thanks to these features, they can be used in conjunction with split air conditioners or variable refrigerant flow split air conditioners.

SHRA model heat recovery units cover a wide range of applications, from 250 m<sup>3</sup>/h to 5000 m<sup>3</sup>/h, with special main models 1, 2, 3, 4, 5, and 6.

In the construction of SHRA model heat recovery units, four symmetrically shaped modules, formed on CNC machines, are used. The inner surfaces of the modules are insulated against sound and heat with 6mm thick NFAF. The modules feature service doors on the sides for easy access to the filters. Inside the cabinet, there is an optional electronic control box that allows for the adjustment of fan speeds and the heater's capacity.

1





#### Heat Recovery Unit

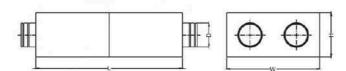
The SHR model heat recovery units use plate heat recovery elements. These heat recovery elements, made of plated aluminum and operating on the principle of a cross-flow countercurrent heat exchanger, have efficiencies ranging from 40% to 70%. The efficiency ratings for each model of the A-series heat recovery units are provided separately for each model.

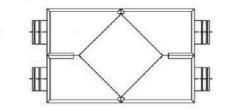
The series recovery element is equipped with a condensate tray on the exhaust air outlet side as standard equipment.

DIMENSIONS					
MODEL	Fan tipi	V (m³/h) <sup>(1)</sup>	∆ <b>P(Pa)</b> <sup>(2)</sup>		
SHRA-01	Plug Fan	200-500	150		
SHRA-02	Plug Fan	500-1000	320		
SHRA-03	Plug Fan	1000-2000	250		
SHRA-04	Plug Fan	2000-3000	330		
SHRA-05	Plug Fan	3000-4000	340		

1: Min. / Maks hava debileri (m<sup>3</sup>/h) 2: Cihaz dışı statik basınç (Pa)

Device Dimensions



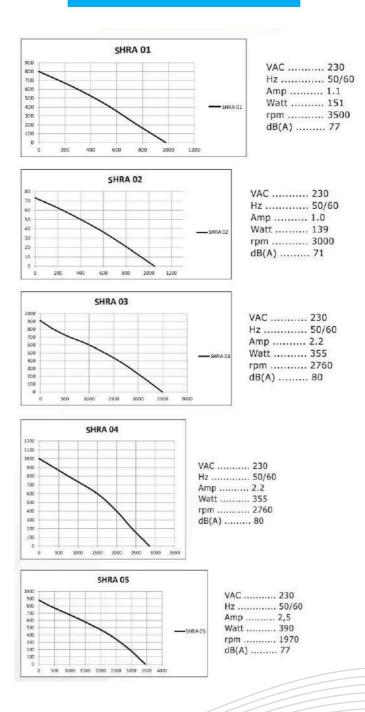


DIMENSIONS					
MODEL	н	L	w	DØ	kg
SHRA-01	300	1000	630	160	53
SHRA-02	330	1000	630	200	56,5
SHRA-03	430	1100	730	250	68,5
SHRA-04	510	1250	1130	400	117
SHRA-05	560	1720	1230	450	168,5





#### Capacity Table - 2







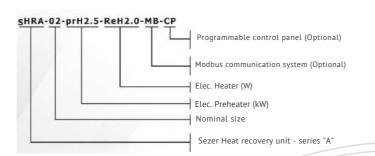
#### Accessories

"SHRA" model heat recovery units can be fitted with electric heaters upon request. Electric heaters are single-stage or three-stage. Electric heaters are mounted on the outlet of the blower fan. There is a safety thermostat on the electric heaters.



Another accessory for the "SHRA" model heat recovery units is a wallmounted control unit (wired) or a wireless remote control unit. Using this control unit, the supply and exhaust fans can be operated at three adjustable speed levels. If the unit is equipped with an electric heater, it can also be connected to the control unit and operated at three adjustable levels.









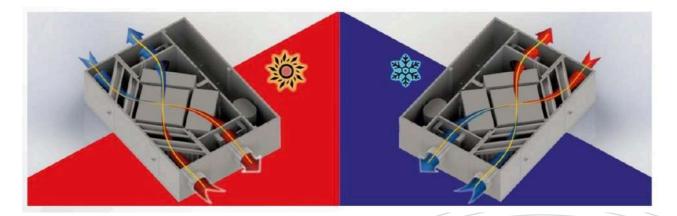


"SHRA-HP" Model

The SHRA-HP model heat pump recovery units operate on the principle of not only recovering heat by heating or cooling the fresh air with the exhausted air but also conditioning the fresh air to comfort levels via the heat pump before delivering it to the space. Therefore, they provide heating, cooling, and ventilation for spaces without requiring any additional heat source. This feature makes them ideal heating, cooling, and ventilation units for venues such as nightclubs, restaurants, bars, and cafes.

The SHRA-HP model heat pump recovery units are mounted into suspended ceilings using suspension elements. Therefore, they do not require a metal profile base.

The SHRA-HP model heat pump recovery units cover a wide range of applications, from 750 m<sup>3</sup>/h to 4000 m<sup>3</sup>/h, with 6 main models available.







The SHRA-HP model heat pump recovery units not only recover heat but can also be used as a heating element in the winter and a cooling element in the summer. After the outdoor air passes through the heat exchanger and mixes with the indoor air, it flows through the evaporator coil, which functions as a cooling element during the summer, and through the condenser coil, which acts as a heating element during the winter, before being delivered to the indoor environment under comfort conditions.

In seasonal changes, the summer-winter mode can be manually switched with a single button or automatically based on the temperature, allowing the SHRA-HP to be used under the desired conditions.



The SHRA-HP model heat pump recovery units are constructed using modules shaped on CNC machines. The inner surfaces of the modules are insulated against sound and heat with 6 mm thick NFAF. The modules are equipped with service panels on the sides to provide access to the filters and cooling group. Additionally, an optional electronic control box is available within the cabinet to adjust the fan speeds.

#### **Fans and Extractors**

The SHRA-HP model heat pump recovery units use plug-fan type, backward curved blade EC fans with direct coupled motors for both the fan and extractor, possessing similar technical characteristics. The fans have been tested and certified according to AMCA Standard No. 210/85 at the manufacturer's laboratories. Due to the direct coupling of the motors, there are no issues related to belt tensioning or replacement.





#### Heat Recovery Units

The SHRA-HP model heat pump recovery units use plate heat recovery elements. These plates are made of aluminum and operate based on the principle of a cross-flow, counterflow heat exchanger. The efficiency of these heat recovery elements ranges from 40% to 70%.

The heat recovery element includes a condensation tray as standard equipment on both the exhaust air outlet side and the supply air side to the room.

If values higher than the thermal efficiencies shown in the tables are required, please contact the factory.

The SHRA-HP model heat pump recovery units use EU2 class reusable panel filters on the outdoor air intake side and room intake sides. These filters, mounted on slides, can be replaced or removed for cleaning by opening the side covers.

#### Accessories

Filter

Electric heaters can be installed upon request for the SHRA-HP model heat pump recovery units. The electric heaters are available in singlestage or three-stage options. They are mounted at the discharge outlet of the fan. The electric heaters are equipped with a safety thermostat.



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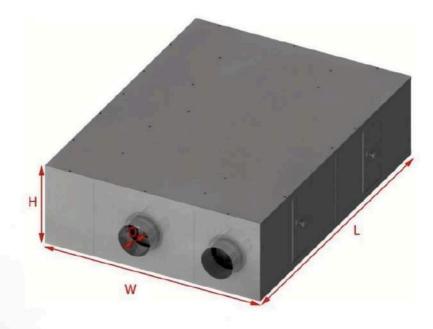




### Capacity Table

Winter Conditions: 0°C DBT (Dry Bulb Temperature), 86% RH (Re	ter Conditions: 0°C DBT (Dry Bulb Temperature), 86% RH (Relative Humidity)					
SHRA-HP Heat Pump Heat Recovery Units	SHRA-HP 1	SHRA-HP 2	SHRA-HP 3	SHRA-HP 4	SHRA-HP 5	SHRA-HP 6
Rated Flow [m³/h]	750	1000	1500	2000	3000	4000
Compressor Power Consumption [W]	1177	1477	1939	2957	3576	4931
Cooling Capacity [W]	3077	4213	5882	7803	11298	15588
Total Cooling Capacity [W]	4077	5546	7882	10469	15298	20921
Compressor Power Consumption [W]	963	1221	1556	2333	2762	3823
Heating Capacity [W]	4189	5753	8059	10810	15895	21411
Total Heating Capacity [W]	6462	8083	12604	16871	24986	33532

### Dimensions - 1

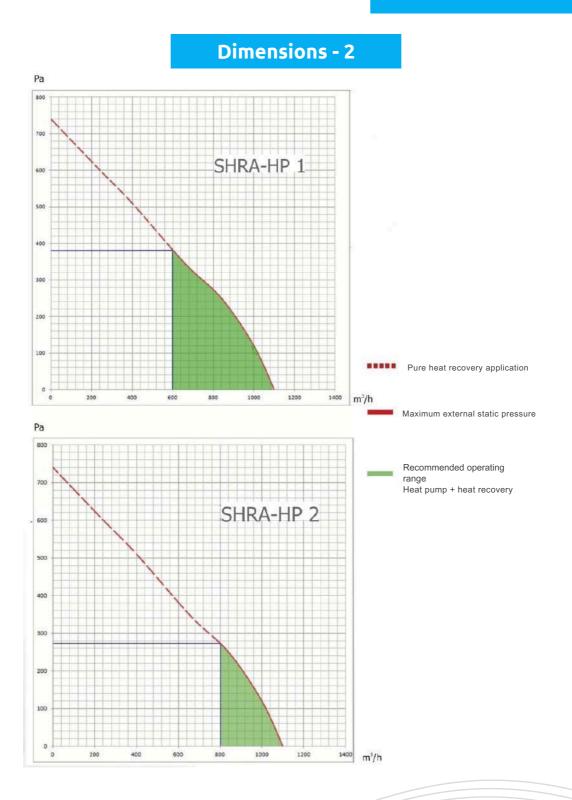


SHRA-HP Heat Pump Heat Recovery Units	SHRA-HP 1	SHRA-HP 2	SHRA-HP 3	SHRA-HP 4	SHRA-HP 5	SHRA-HP 6
Length [L] [mm]	1400	1400	1400	1400	1605	1700
Width [W] [mm]	990	1100	1400	1400	1520	1785
Height [H] [mm]	392	392	455	550	586	710
Neck Diameter [D] [mm]	160	200	250	400	450	500

Note: The right to technical changes is reserved.

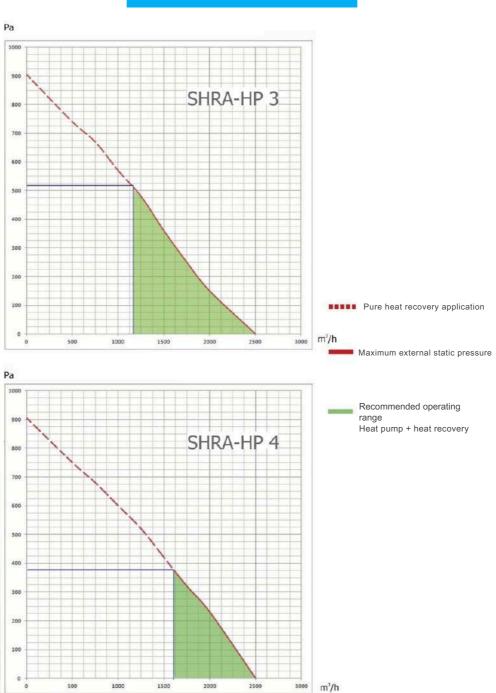












**Dimensions - 3** 

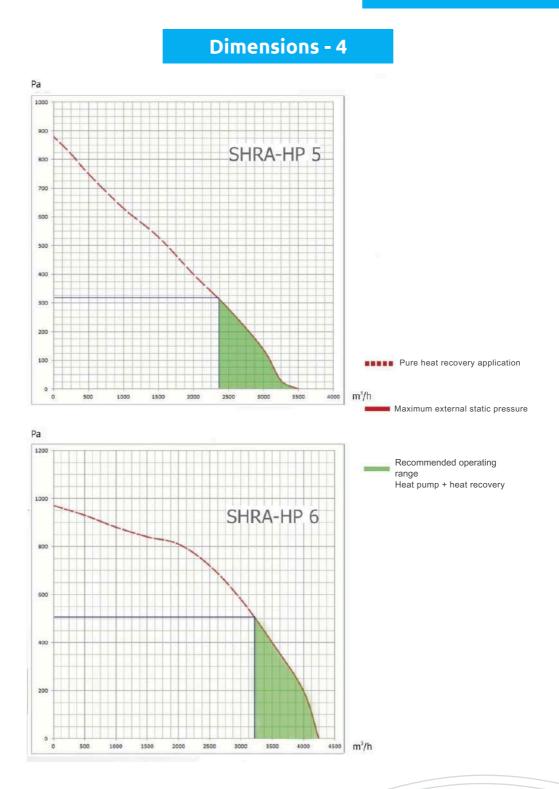




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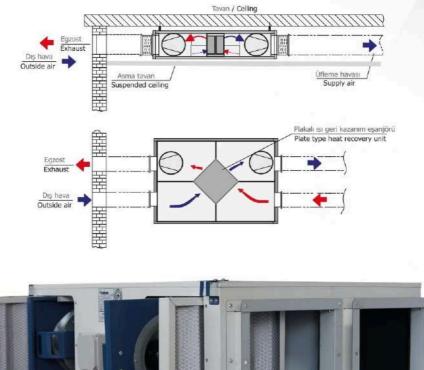


# Heat Recovery Units











Fans and Aspirators

The SHRA Model heat recovery units use identical, similarly technical, dualinlet fans with forward-curved blades and direct-coupled motors, functioning as both ventilators and exhausters. These fans have been tested and certified according to AMCA Standard No. 210/85 in the manufacturer's laboratory. Due to the direct coupling of the motors, there are no issues related to belt tensioning or replacement.

#### Filters

The SHRA model heat recovery units use EU2 class reusable panel filters on the outside air intake side. These filters are mounted on sliders and can be replaced by opening the side covers, and can also be removed for cleaning.









# **Household SHRA**



"SHR" Model

The "SHR" series residential ventilation and heat recovery units feature a single-wall construction with internal surfaces insulated with 6 mm NFAF. Due to their extremely slim appearance, they can be used without any compromise on usable space. They can be mounted inside suspended ceilings, raised floors, or within sandwich walls.

The basic working principle of the SHR series devices is the heating of the fresh air taken from outside with the exhaust air. As a result, the ventilation of enclosed spaces can be achieved with minimal heat addition. In many cases, no additional heat is required at all.

They can be mounted into the false ceiling using standard supporting profiles and threaded rods. Therefore, no special construction such as a steel cage or base is required for installation.









# **Household SHRA**

#### Cabin

Model CNC tezgahlarda üretilmiş modüllerin birleştirilmesinden meydana gelmiştir.

Fans and Exhaust Fans

In the SHRA series units, directly coupled radial fans are used as both the ventilator and exhaust fan. Both fans share the same technical characteristics. These fans have been tested according to the AMCA 1210/85 standard in the manufacturer's laboratory. The direct coupling of the electric motors to the fans eliminates any issues related to belt tensioning or replacement.

#### Exchangers

In residential ventilation and heat recovery units, plate heat recovery exchangers made of durable aluminum sheets are used. Through this exchanger, approximately 60% of the thermal energy from the exhaust air is recovered and utilized to heat the fresh air brought in from outside.

#### Filters

SHR model heat recovery units use cleanable and reusable EU2-class filters. These filters, mounted on rails, can be easily removed, washed with detergent, and reinstalled after cleaning.



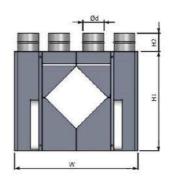
Plate heat exchangers are used in MEKSEN TYPE HEAT RECOVERY DEVICES.



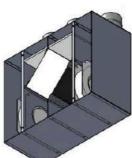




# **Household SHRA**

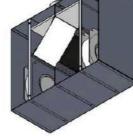




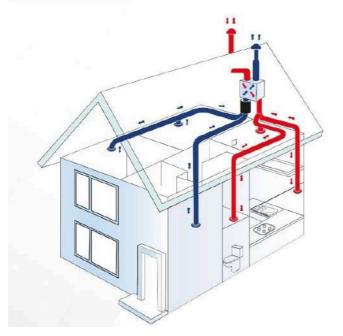


L1





DIMENSIONS						
MODEL	W	H1	H2	L1	Ød	
	560	450	80	250	Ø 100	











"SHS" Model

Sezer "SKS" model standard type air conditioning units consist of 14 different sizes and range from 1500 m3/h to 90000 m3/h. The smallest standard model is IKS-15 and has an external cassette size of 680 mm x 680 mm excluding the profile base. The largest standard model SKS-80 has an external cassette size of 2520 mm x 2520 mm.

In "SKS" model heating-ventilation and air conditioning units, it is possible to obtain units made to order that serve different purposes by placing air intake and/or mixing cells, filters, heating and cooling coils, humidifiers and fans in different combinations. It is also possible to design and manufacture SKS model units as two-story or side-by-side units with or without heat recovery. All of the "SKS" type standard air conditioning units are produced in two different types with 22 mm and 55 mm panel thicknesses depending on customer demand.

**Cabin Construction - 1** 

Specially drawn aluminum profiles are used in the construction of the frame of Sezer "SKS" model air conditioning units. Aluminum profiles are They are connected with corner wedges made of hard plastic. Aluminum profiles are placed between the sections and the cover. Double-walled and special panels filled with rockwool are used to fill the gaps between the aluminum profiles. Rockwool filling is a standard construction and polyurethane insulation material can also be used upon customer request.

Double-walled panels of two different thicknesses can be used depending on customer demand, provided that the aluminum frame profiles remain the same. The panel thickness in "SKS.../22" models is 22 mm and the panel thickness in "SKS.../55" models is 55 mm. The panels are mounted to the profiles using selftapping screws, and liquid gasket is used to ensure sealing between the panel and the profile. Optionally, tight-fitting panels with frame gaskets are used.

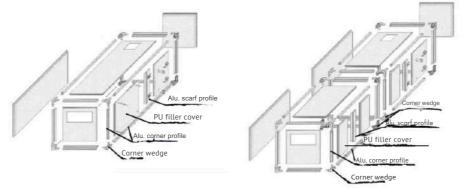






### **Cabinet Construction - 2**

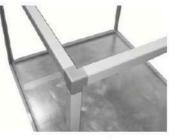
SKS model standard air conditioning units can be manufactured as singlepiece units or, upon request, as multi-piece units.



One-piece unit cabin construction

Multi-piece unit cabinet construction

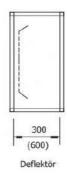
"SKS.../22" and "SKS.../55" model air conditioning units have the following features according to EN DIN 1886 standards.



Characteristics	
Mechanical strength	D1
Leakage (-400 Pa)	L1
Leakproof (+700 Pa)	L1
Heat conduction coefficient	T2
Thermal bridge factor	TB2

#### Exchangers

Deflector is placed between the fan and components such as the heatingcooling coil, filter, or silencer to ensure uniform air distribution when these elements are required. Deflectors are plenum chambers containing perforated sheets that enable even air distribution. Standard deflector lengths are 300 mm and 600 mm.









### Adjustment and Off Damper

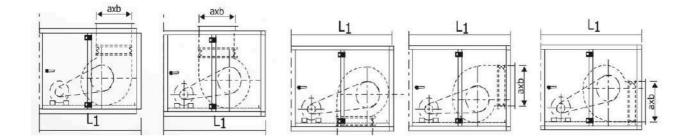
Pressure difference (Well)	50	100	200	400	600	800	1000
Air leakage (It/s.m²)	5.5	8.5	13.0	18.0	22.0	28.0	31.0

Fans and Exhaust Fans-1

In "SKS" model air conditioning and ventilation units, single or double inlet radial fans are used. The standard fan types utilized can be summarized as follows.

01 - Forward-curved blade fans 02 - Backward-curved blade fans 03 - Backward-curved, aerofoil profile blade fans 04 - Plug fans 05 - EC fans

Forward-curved blade fans are preferred for low to medium-pressure applications, while backward-curved blade fans are used for high-pressure classes [SP > 1000 Pa]. Aerofoil blade fans are suitable for high efficiency and low noise levels.







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Standard Ventilation and Air Conditioning Units

### Fans and Exhaust Fans-2

Depending on Fan Types, Unit Lengths and Air Handling Unit Discharge Dimensions Are Provided Below.

MODEL	W(mm)	H(mm)	L1(mm)	Fan tipi	axb
			1020	AT 7-7	208x232
			1020	AT 10-10	289x331
SKS-15	680	680	1020	180	229x229
		100000	1020	200	256x256
			1020	225	288x288
			1020	AT 10-10	289x331
			1020	AT 12-12	341x395
SKS-20	980	680	1020	200	256x256
			1020	225	288x288
			1020	250	322x322
			1020	AT 12-12	341x395
			1320	AT 15-15	404x471
SKS-25	980	980	1320	280	361x361
	1000000	245300400 C	1320	315	404x404
			1320	355	453x453
			1320	AT 15-15	404x471
			1320	AT 18-18	478x557
SKS-30	1280	980	1320	315	404x404
		1245	1320	355	453x453
			1320	400	507x507
			1320	AT 18-18	478x557
Annald market	20925824	119912523245	1320	400	507x507
SKS-35	1280	1280	1620	450	569x569
			1620	500	638x638
			1620	450	569x569
SKS-40	1620	1280	1960	500	638x638
	1020	1000	1960	560	715x715
			1960	500	638x638
SKS-45	1620	1620	1960	560	715x715
			2260	630	801x801
			2260	560	715x715
SKS-50	1920	1620	2260	630	801x801
			2260	710	898x898
			2260	630	801x801
SKS-55	1920	1920	2260	710	898x898
10000000000	300-700-920	100053	2260	800	1007x1007
			2260	630	801x801
SKS-60	2220	1620	2260	710	898x898
			2260	800	1007x1007
			2260	630	801x801
SKS-65	2220	1920	2260	710	898x898
			2260	800	1007x1007
and and			2260	710	898x898
SKS-70	2220	2220	2260	800	1007x1007
1		1.02.02924	2260	900	1130x1130
			2260	710	898x898
SKS-75	2520	2220	2560	800	1007x1007
			2560	900	1130x1130
			2560	800	1007x1007
SKS-80	2520	2520	2560	900	1130x1130
		100	2560	1000	1267x1267

• In cabinet fans, the L1 dimension is 8 mm shorter.

If the fan is an intermediate element, the L1 dimension is 8 mm longer.

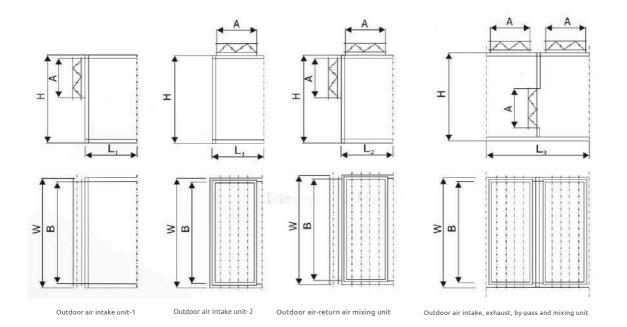




### Fresh Air Mixing and Exhaust Unit - 1

These units, which provide fresh air intake and/or the mixing of return air with fresh air, are solely equipped with a fan and serve as the first elements in the airflow direction of ventilation units. The air mixing ratios are adjusted through these units. Additionally, if desired, they can disconnect the system from outside air when the device is not operating.

In combined-type air handling units containing fans and exhausters, the exhauster on the exhaust side ensures air extraction and achieves the desired mixing ratio by bypassing the required amount of return air. Threesection combined mixing-exhaust-bypass cells, equipped with three dampers, are also available. The dimensions for each model are provided below.





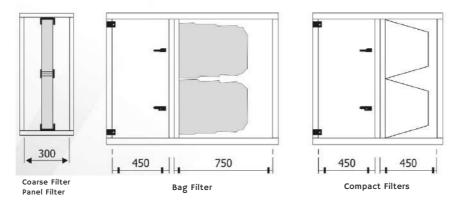




	DIMENSIONS						
AHU MODEL	W (mm)	H (mm)	A (mm)	B (mm)	L1 (mm)	L2 (mm)	L3 (mm)
SKS-15	680	680	300	600	340	340	640
SKS-20	980	680	300	900	340	340	640
SKS-25	980	980	600	900	640	640	1240
SKS-30	1280	980	600	1200	640	640	1240
SKS-35	1280	1280	600	1280	640	640	1240
SKS-40	1620	1280	600	1540	640	640	1240
SKS-45	1620	1620	900	1540	940	940	1840
SKS-50	1920	1620	900	1840	940	940	1840
SKS-55	1920	1920	900	1840	940	940	1840
SKS-60	2220	1620	900	2140	940	940	1840
SKS-65	2220	1920	900	2140	940	940	1840
SKS-70	2220	2220	1240	2140	1210	1210	2520
SKS-75	2520	2220	1240	2440	1210	1210	2520
SKS-80	2520	2520	1240	2440	1210	1210	2520

### Fresh Air Mixing and Exhaust Unit - 2

### Air Filters - 1









### Air Filters - 2

There are four main methods used to clean fresh air and return air before they are subjected to the necessary climatological processes.

They consist of the following types. The types of these filters and their classes according to EN 779, EN 1822 are as follows.

1-Coarse filters; G2, G3, G4 2- Bag filters; F5, F6, F7, F8, F9 3-Compact

The coarse filters are mounted inside the cabin by means of skids, and the replacement process is carried out by opening the side cover and sliding it out. The standard installation style of bag filters is inside special frames with clips. For this application, a plenum (empty) cell with an openable cover is placed on the filter air inlet side for service purposes. However, if space is limited, bag filters can be mounted on skids like other filters upon customer request.

Bag filters are generally placed immediately after the coarse filter [G3 or G4] and on the suction side of the fan. However, in hygienic air handling units manufactured in accordance with DIN 1946-4, the installation location of class F9 compact or bag filters is after the fan discharge port and on the positive pressure side. Compact filters are high-efficiency filters. Since they are shallow, they take up little space in the unit. Since they are rigid, they ensure that the air is distributed evenly over the entire filter surface.

The other filter type, H12, H13, H14 class HEPA filters, are generally placed outside the air handling unit and inside the clean room in clean room applications. However, in special applications, it is possible to place these filters inside the air handling unit cabinet.

Initial and maximum pressure losses of panel filters

FILTER CLASS	Initial loss	Recommended Maximum Loss
G-2	25 Pa	150 Pa
G-3	40 Pa	150 Pa
G-4	50 Pa	150 Pa

FILTER CLASS	Initial loss	Recommended Maximum Loss			
F-5	65 Pa	150 Pa			
F-6	55 Pa	250 Pa			
F-7	60 Pa	250 Pa			
F-8	115 Pa	250 Pa			
F-9	165 Pa	350 Pa			

Initial and maximum pressure losses of bag filters

Initial pressure losses are average values and correspond to a face velocity of 2.5 m/s.
 Maximum pressure losses are at the recommended maximum value.



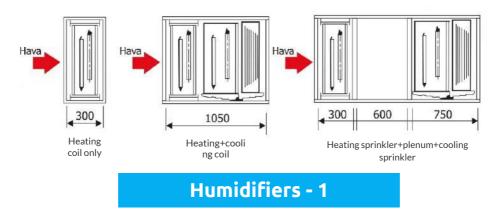


#### Heating and Cooling Coils

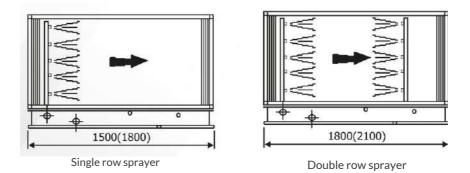
01 - Hot water heating coils 03 - Cold water cooling coils.

02 - Steam heating coils 04 - Direct expansion coils

The cooling coils have a drip pan and drip tray due to surface condensation throughout.



Three different humidifiers are used in SKS model ventilation and air conditioning units. 1- Can perform water type air washing 02 - Water humidifiers with filling panels 03 - Steam humidifiers



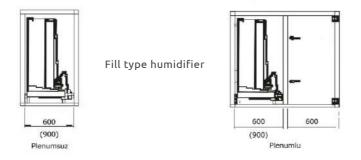




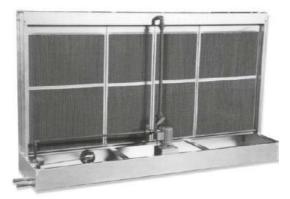


#### Humidifiers - 2

Pool discharge, transportation, water supply, pump suction and discharge lines are standard elements. Pump characteristics are determined by İmeksan and reported to the customer. The customer is responsible for the supply of the pump. However, if requested, the pump can be provided together.



Filled panel humidifiers are systems that perform humidification by passing air over panels containing cellulose-based filling material. In these systems, a very small circulation pump is located in the air handling unit and continuously humidifies the panels. There are three different panel types operating with 70-75%, 80-85% and 90-95% efficiency. In filled panel humidifiers, the air must be passed through a G3 quality filter to extend the life of the panels. Droplet separators are used to prevent water droplets from being dragged to the fan side in air flows above 2.5 m/s.





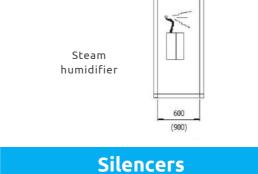




#### Humidifiers - 3

Another type of humidifier is steam humidifiers. If there is sufficient steam production in the environment where the air handling unit is located, humidification can be done by using this steam. For this process, a special distribution pipe is used that separates the condensate from the steam and sprays dry steam into the air handling unit. By placing a 2-way proportional motor on this system, it is possible to use the relative humidity proportionally.

If there is no steam production in the system, steam humidifiers that produce steam via electrodes can be installed in the air handling unit. However, for this process, a plenum cell of approximately 600 to 900 mm in length is required to ensure that the steam mixes homogeneously with the air. Steam humidifiers that produce their own steam have their own automatic control equipment.



In SKS series ventilation and air conditioning units, it is possible to place silencers on the aspirator suction side and/or the fan discharge side as standard equipment. In silencers manufactured as a modular unit, the partition thickness is 200 mm and the distance between the partitions is 100 to 120 mm. Silencers are produced in 6 different sizes.

	-	7	50,900,12		800,2100			
				encer				
BOY (mm)	SES YUTMA KAPASÍTELERÍ							
and fumily	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
900	6	12	21	22	23	16	11	11
1200	7	15	27	28	29	20	12	12
Contractor								
1500	9	19	33	34	36	25	17	17
1500	9 10	19 22	33 39	34 40	36 42	25 29	17 20	17 20

25



26

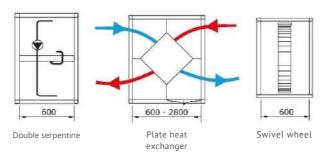


### **Standard Ventilation and Air Conditioning Units**

#### Heat Recovery Units - 1

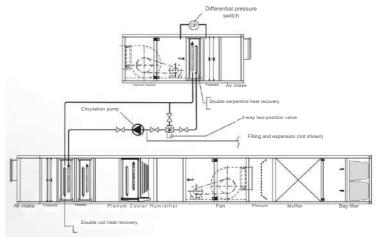
Three different models of heat recovery units are used in the "SKS" series ventilation and air conditioning units.

01-Double serpentine heat recovery units 02 - Plate heat exchanger heat recovery units 03-Rotary wheel heat recovery units



Double serpentine heat recovery units consist of two serpentines, hydronic medium and a circulation pump that provides circulation between them. The biggest advantage of this system, which has an efficiency of around 40%, is that it can be applied to units that are far from each other, made up of two separate units, air conditioning unit and independent exhaust fan.

In environments below 0°C, up to 40% ethylene glycol must be added to the fluid to eliminate the risk of freezing. In addition, an automatic defrosting system must be provided to prevent the exhaust air side coil from becoming blocked due to frost.



Double serpentine and automatic defrost heat recovery system. Central and aspirator in separate areas.

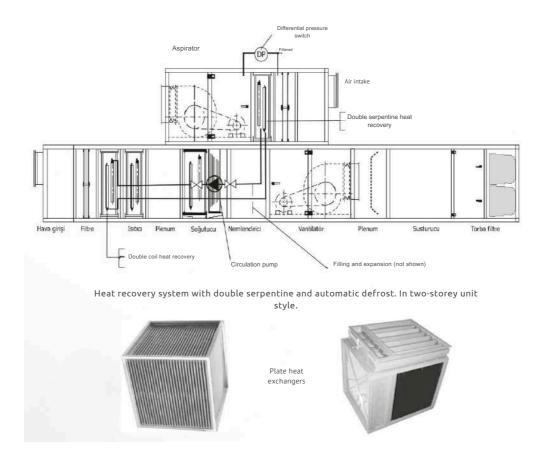




#### Heat Recovery Units - 2

The second heat recovery method is plate heat exchangers. However, multi-story air conditioning units are required to implement this system. The principle here is to provide heat transfer between the exhaust air and the outside air via the heat exchanger plates. In this system, heat recovery efficiency is around 50% to 60% in single-element applications and 70% to 80% in double-element applications.

In applications below 0°C, automatic defrost application with front and by-pass dampers should be made to prevent frost formation on the exhaust side.

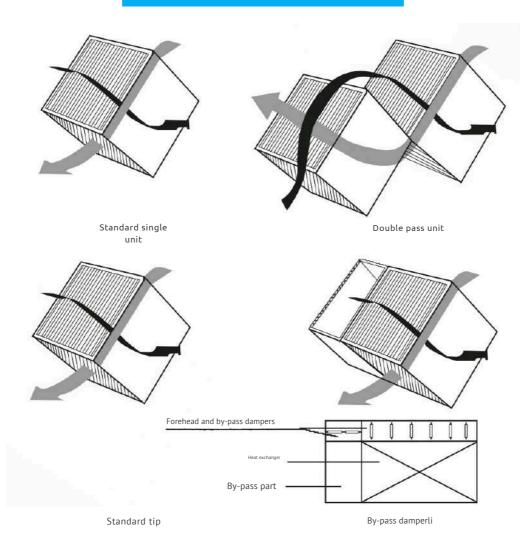








#### Heat Recovery Units - 3



Adjustable low profile ceiling mounted units are also available as SHRA series Heat recycling units. Technical information about these units and for selection details, please refer to the "SHRU and/or SHRA" catalog with this layout. This unit on which the packaged device is operated You can find ready-made solutions here.



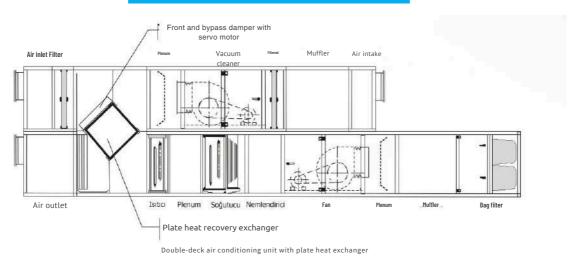


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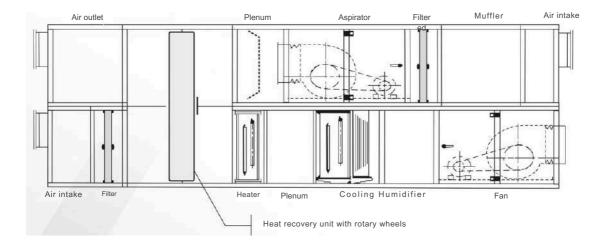


### Standard Ventilation and Air Conditioning Units

### Heat Recovery Units - 4



Another heat recovery method applied in "SKS" series ventilation and air handling units is rotary wheel heat recovery systems. Rotary wheels are of two types: non-hygroscopic and hygroscopic. In non-hygroscopic models,other heat recovery As in the systems, only heat transfer is provided. In hygroscopic models, moisture transfer also occurs in addition to heat transfer. is said. The defrost problem is at a minimum in these systems, whose efficiency is around 80%. Wheel in defrosting applications that rarely require. Reducing the speed (e.g. from 20 rpm to 5 rpm) is sufficient.





30



# Standard Ventilation and Air Conditioning Units

### Quick Selection Table



### **Unit Capacities**

Model and dimensions			Air flow rate (m <sup>3</sup> /h)							
AHU modeli W (mm)	H (mm)	F(*) m2	Alın hızı (m/s)							
			2	2,5	3	3,5	4	4,5	5	
SKS-15	680	680	0,3249	2339	2924	3509	4094	4679	5263	5848
SKS-20	980	680	0,4959	3570	4463	5356	6248	7141	8034	8926
SKS-25	980	980	0,7569	5450	6812	8175	9537	10899	12262	1362
SKS-30	1280	980	1,0179	7329	9161	10993	12826	14658	16490	1832
SKS-35	1280	1280	1,3689	9856	12320	14784	17248	19712	22176	2464
SKS-40	1620	1280	1,7667	12720	15900	19080	22260	25440	28621	3180
SKS-45	1620	1620	2,2801	16417	20521	24625	28729	32833	36938	4104
SKS-50	1920	1620	2,7331	19678	24598	29517	34437	39357	44276	4919
SKS-55	1920	1920	3,2761	23588	29485	35382	41279	47176	53073	5897
SKS-60	2220	1620	3,1861	22940	28675	34410	10145	45880	51615	5735
SKS-65	2220	1920	3,8191	27498	34372	41246	48121	54995	61869	6874
SKS-70	2220	2220	4,4521	32055	40069	48083	56096	64110	72124	8013
SKS-75	2560	2220	5,1695	37220	46526	55831	65136	74441	83746	9305
SKS-80	2560	2560	6,0025	43218	54023	64827	75632	84436	97241	10804

(\*) F: Net air flow area (m<sup>2</sup>) Heating, cooling, air washer: Heating only : Only fan:

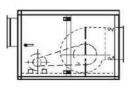


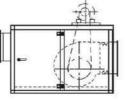


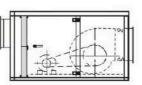


### **Application Examples - 1**

Below are examples of applications for single-layer and double-layer units. As seen in the images, the units can be manufactured as a single piece or in multiple parts based on customer requests.



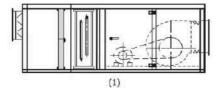


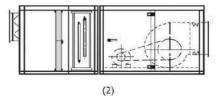


Cabin exhaust fan

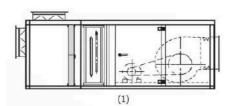
Cabin exhaust fan, engine

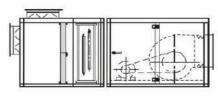
Cabin exhaust fan + filter





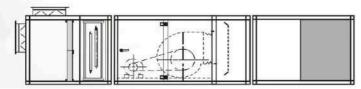
%100 Fresh Air Heating-Ventilation Unit Panel Filter + Heater + Fan (1) Single-Piece Cabinet Construction (2) Two-Piece Cabinet Construction





(2)

Mixed Air Heating-Ventilation Unit Mixing Chamber + Filter + Heater + Fan (1) Single-Piece Cabinet Construction (2) Two-Piece Cabinet Construction



Mixed Air Heating-Ventilation Unit Mixing Chamber + Filter + Heater + Fan + Deflector + Silencer

Three-Piece Cabinet Construction

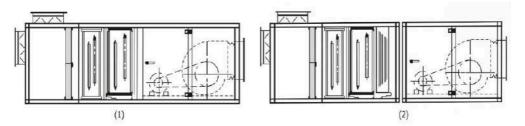


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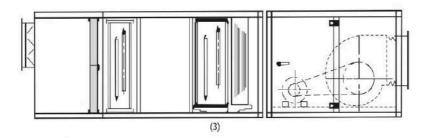


### Application Examples - 2

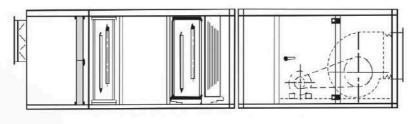


(1) Mixed-Air Air Handling Unit. Mixing Chamber + Filter + Heater + Cooler + Fan, Single-Piece Body.

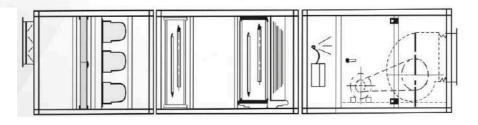
(2) Same as "1", but with a Two-Piece Cabinet and a Droplet Separator at the Cooler Outlet.



(3) Similar to "2" (100% Outdoor Air). There is an Empty Plenum between the Heater and the Cooler.



Two-part, 100% outdoor air air handling unit with added steam humidifier.



Three-part, 100% outdoor air air handling unit. Panel filter (coarse), bag filter (fine), heater, plenum chamber, cooler, drip separator, steam humidifier, fan.

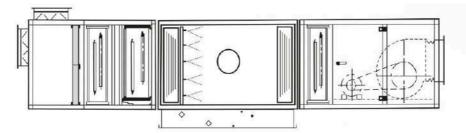




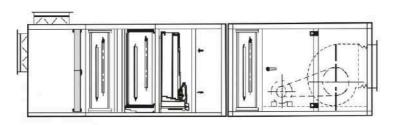


# Standard Ventilation and Air Conditioning Units

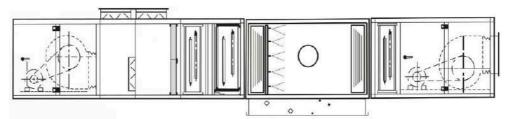
## **Application Examples - 3**



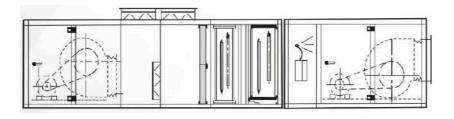
Mixed air air handling unit, air mixing chamber + filter + pre-heater + cooler + air washer humidifier + final heater + fan. Three-part cabinet construction.



Mixed air air handling unit. Air mixing chamber + filter + pre-heater + cooler + fill panel humidifier + final heater + fan.



Combined type air handling unit (exhaust fan and fan in the same cabinet). Other details are the same as the above unit.

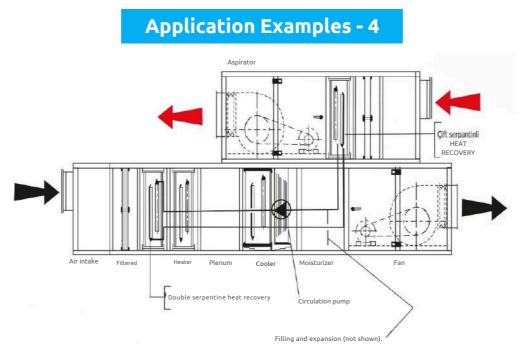


Combined type air handling unit. Exhaust fan + exhaust and mixing chamber + filter + heater + cooler + steam humidifier + fan.

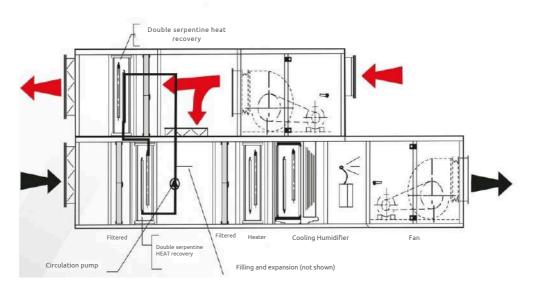




# Standard Ventilation and Air Conditioning Units



Two-story, 100% outside air, heat recovery coil air handling unit.



Two-story, 100% mixed air, heat recovery coil air handling unit.

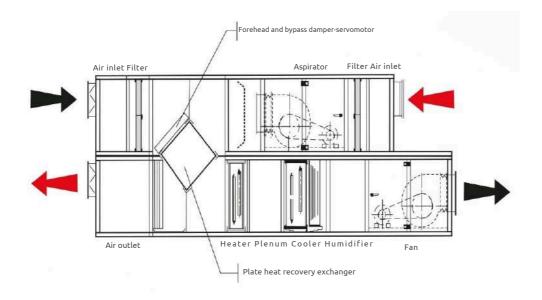




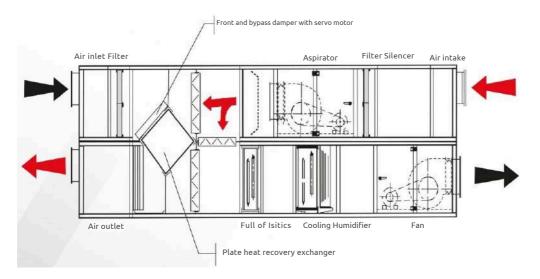


# Standard Ventilation and Air Conditioning Units

## **Application Examples - 5**



100% outside air plate heat recovery exchanger air handling unit.



Mixed air, plate heat recovery exchanger air handling unit.

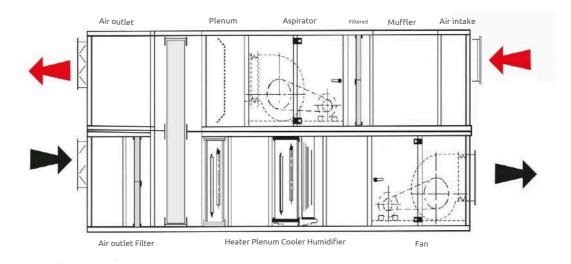




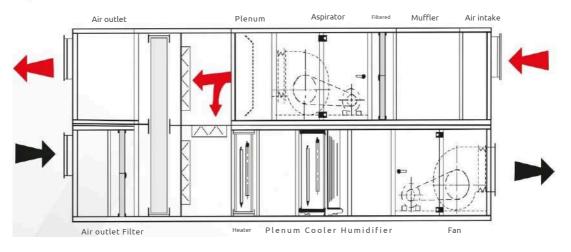


# Standard Ventilation and Air Conditioning Units

## Application Examples - 6



100% fresh air, rotary wheel heat recovery air handling unit.



Mixing air, rotary wheel heat recovery air handling unit.







The SKS-H model hygienic air handling units are designed and manufactured to meet the needs of environments requiring high indoor air quality (IAQ) and particle-free conditions, such as operating rooms, delivery rooms, intensive care units, and the electronics and optics industries. These units comply with classifications ranging from Class-1 to Class-100,000 according to the US Federal Standard 209E, from M 1.5 to M 6.5 according to EN ISO 14644-1, and from Class-0 to Class-7 according to German VDI 2803/1.

The SKS-H model air handling units comply with DIN 1946-4 and EN 13053 standards. Their interiors consist of smooth surfaces without any protrusions that could cause dust accumulation. Joint areas are sealed with silicone gaskets to prevent dust build-up. With washable interior surfaces, these units provide an exceptionally hygienic structure.

The "SKS-H" type units, produced in a total of 9 models, have airflow rates ranging from 1520 m<sup>3</sup>/h to 39200 m<sup>3</sup>/h. However, custom designs and production for higher airflow rates can be carried out upon special request.

In "SKS-H" model hygienic units, plug fans are preferred due to their ease of cleaning and minimal dust accumulation on blade surfaces. However, upon request, double-inlet radial fans with forward or backward-curved blades can also be used.

In hygienic air handling units, the placement of filters differs from that in conventional units. In conventional units, single or double-stage filters are typically positioned on the suction side of the fan, before all other components. However, with special filter housings, these filters can also be installed inside the unit, immediately after the bag filters.



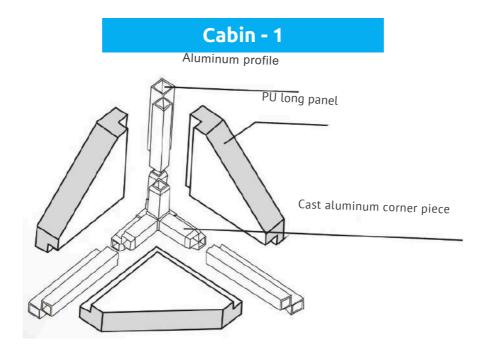




However, in "SKS-H" model hygienic air handling units, as required by DIN 1946-4, G3 and G4 class filters, which can be classified as coarse filters, are placed on the suction side of the fan, immediately after the air intake. F7 class precision bag filters and compact filters are installed on the discharge side of the fan, right after a cell with deflectors. Meanwhile, H13 and H14 class HEPA filters deserve mention. In cleanroom technology, these filters are positioned inside the serviced area, just before the air supply terminal element. Therefore, they are not installed within the air handling unit. However, upon special request, these filters can also be placed inside the unit immediately after the bag filters, using specially designed filter housings.

SKS-H" hygienic air handling units comply with the following requirements of DIN EN-1886

MECHANICAL STRENGTH	D1
Leakage (-400 Pa)	L1
Leakproof (+700 Pa)	L1
Heat conduction coefficient	T2
Heat bridge factor	TB2

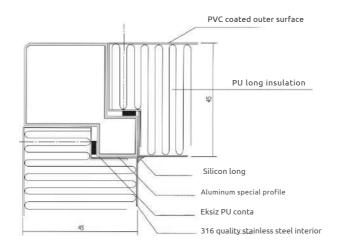




#### Cabin - 2

The SKS-H model air handling units feature a cabinet construction made with specially extruded aluminum profiles and double-walled panels filled with 55 mm thick rock wool insulation. The exterior surfaces of the panels are made of electrostatically powder-coated galvanized sheet metal, while the interior surfaces are optionally made of hot-dip galvanized sheet metal or AISI 316 grade stainless steel. The panels are mounted to the profiles using self-tapping screws, and liquid sealant is used between the panel and profile to ensure airtightness. Optionally, tightly fitted panels with frame seals are used.

The cabinet features hinged doors for the control and maintenance of components such as coarse filters, fine filters, fans, and exhaust fans. Inspection windows and internal lighting fixtures are used to ensure visual control of heaters, coolers, humidifiers, heat recovery units, and fans. Depending on customer requirements or the size of the unit, the air handling unit can be manufactured as a multi-part system.

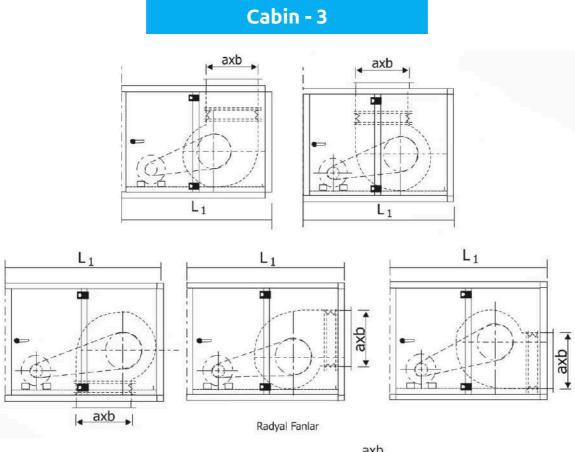


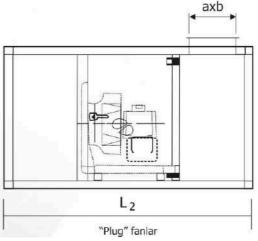
In SKS-H model air handling units, AMCA certified "plug" fans are used. Directly coupled fans are preferred due to their very low dust retention on blade surfaces. However, depending on customer requests, backward curved or forward curved, tight-bladed, double-inlet, belt-driven fans can also be used.















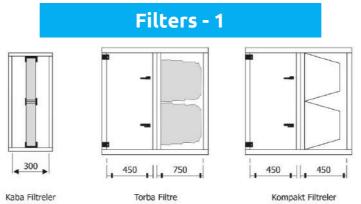


#### **Electric Motors**

In SKS-H model hygienic air handling units, IP55-protected, three-phase, squirrelcage asynchronous electric motors are used. Generally, single-speed motors are employed, but dual-speed motors can also be provided upon request. Radial fans are driven by a belt-pulley system, and the electric motors are mounted on a special motor base equipped with a tensioning mechanism.

Radial fans can be positioned within the cabinet in various airflow configurations, as shown in the illustration, based on customer requirements. "Plug" fans are implemented as either directly coupled or belt-pulley driven, depending on the airflow-pressure characteristics. The fan cell is illuminated by a hermetically sealed fixture controlled by a rotary switch mounted outside the housing.

Frequency converters suitable for the fans and motors are also available separately upon request.



Filter placements and selections are made in compliance with DIN 1946-4 standards. According to this standard, coarse filters are placed on the air intake side of the device, while fine bag filters are installed on the discharge side of the fan, in other words, the high-pressure side. The filters used can be classified as follows:

**Coarse Filters:** Panel filters classified as 63-64 are installed flat or in a "V" configuration. Filters mounted on sliding rails can be replaced through a removable side cover. They are installed as coarse filters on the intake side.

**Compact Filter:** Compact filters are high-efficiency filters. Due to their shallow depth, they occupy less space within the unit. Their rigid structure ensures even distribution of air across the entire filter surface.

**Bag Filters:** Bag filters have a wide range of applications. Filters of classes F5, F6, F7, F8, and F9 can be found as bag filters. Except for F5 and F6 classes, bag filters can be placed as fine filters on the discharge side of the fan. Bag filters are mounted on special panels with clips, requiring a plenum chamber (empty chamber) in front of them for servicing.

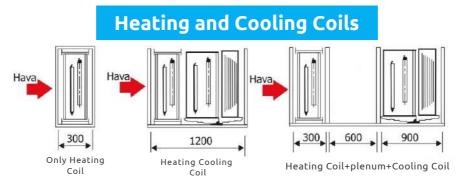






#### Filters - 2

**HEPA Filters:** According to DIN 1946-4, HEPA filters must be placed on the discharge side of the fan and/or preferably inside the serviced area. However, in very special cases, these filters can be integrated into the unit with a special cabinet construction.



Heating and cooling coils are heat transfer elements made by expanding electrolytic copper tubes into aluminum fins. After production, the coils are subjected to a 20-bar leakage test. The frames of the coils are made of galvanized sheet metal. The coils are enclosed with a galvanized sheet frame to prevent air leakage. Mounted on slides, the coils can be easily removed by detaching the side panel.

Condensation trays and droplet eliminators are used in cooling coils regardless of air velocity. In air handling units to be used in locations without freezing risk, heating and cooling coils are placed in a single compartment. However, in areas with a freezing risk and to facilitate the easy installation of a frost thermostat, a 600 mm wide plenum section is included.

#### Humidifiers - 1

DIN 1946-4 prohibits the transport of water droplets by air in water-based humidifiers. Therefore, in SKS-H model hygienic air handling units, traditional air-washer type humidifiers are not used. Instead, only steam humidifiers are employed.

Steam humidifiers are divided into two types: those that generate their own steam and those that use existing steam. If sufficient steam is available in the conditioned space, the condensate is separated from the steam and sprayed into the conditioned air as dry steam for humidification. The desired relative humidity level is controlled either proportionally or through a twoposition motorized valve mounted on the steam nozzle. The lengths of steam humidifiers vary between 600 mm and 1200 mm, depending on the desired efficiency and air conditions. In areas where steam is not available, steam humidifiers that generate their own steam by evaporating water through electrodes can be used.







# **Hygienic Air Handling Units**

# Filters - 2

Plenumsuz Plenumlu

(900)

Matte type moisturizer

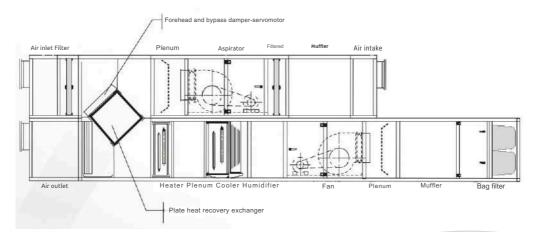
600

600

(900)

#### Silencers - 1

Plate heat recovery systems provide higher heat recovery efficiency (up to 70%) compared to double coil systems. However, to implement plate heat recovery systems in air handling units, it is necessary to shift from singlestory conventional units to double-story units. In plate heat recovery systems, when the outside air temperature is below 0°C, there is a risk of clogging due to frost formation on the surfaces of the exchanger on the exhaust air side. In such cases, it is recommended to use plate heat exchangers with intake and bypass dampers. In this situation, a two-position servo motor driven by a differential pressure switch is used to monitor pressure loss due to clogging. Once the signal for increased pressure loss is received, the intake damper will close and the bypass damper will open, allowing the frost to melt. Once the pressure loss returns to normal, the dampers will return to their original positions via the servo motor.



Application example of two-storey air handling unit with plate heat exchanger

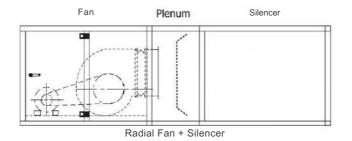


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# Hygienic Air Handling Units

#### Silencers - 2



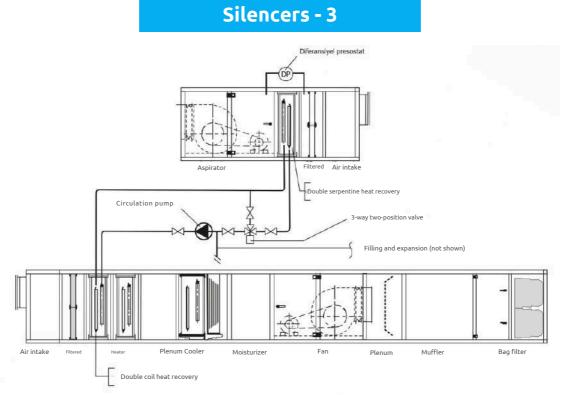
In SKS-H type air handling units, silencers are placed after the fan and before the compact filter. Extractor silencers, on the other hand, are placed immediately before the extractor. Extractor silencers can be directly connected to the extractor cabinet. However, in applications with radial fans, a 600 mm long plenum with a deflector is placed between the fan and the silencer to ensure proper air distribution. When "plug" fans are used, no additional plenum is required, and the deflector can be placed inside the fan cabinet.

The internal surfaces of the attenuators (or silencers) are fabricated from stainless steel or galvanized steel sheet to maintain consistency with the other components of the enclosure (or housing). Standard attenuator lengths are available in 900 mm, 1200 mm, and 1800 mm. For detailed capacity information and selection criteria, please consult our dedicated attenuator catalog.

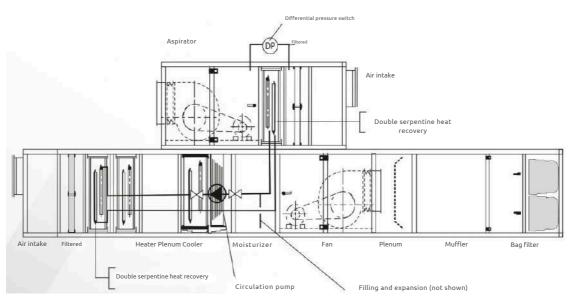
Heat recovery systems, which have found widespread application over the last 30 years, can also be used in IKS-H model hygienic air handling units. The heat recovery systems listed below are implemented in IKS-H models.







Dual-coil heat recovery system with automatic defrost. Air handling unit and extractor in separate locations.



Dual-coil heat recovery system without automatic defrost, in a double-deck air handling unit configuration.



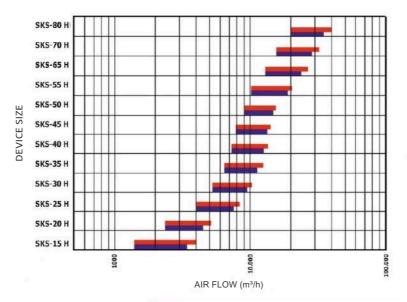




# Hygienic Air Handling Units

### **Power Plant Flow Rates**







## Quick Selection Table

Mo	odel and din	nensions			A	ir Flow (m³/ł	n) 🎬				
AHU modeli	w	н	F(*)	F(*) Frontal velocity (m/s)							
Ano modeli	(mm)	(mm)	m2	2	2.5	3	3.5	4			
SKS-15H	660	660	0.212	1520	1910	2290	2670	3050			
SKS-20H	960	660	0.355	2560	3200	3830	4470	5110			
SKS-25H	960	960	0.577	4160	5190	6230	7270	8310			
SKS35H	1260	960	0.902	6500	8120	9740	11370	12990			
SKS-45H	1340	1260	01.102	7940	9930	11910	13900	15880			
SKS-55H	1640	1260	1.426	10270	12840	15410	17970	20540			
SKS-65H	1640	1560	1.822	13120	16400	19680	22960	26240			
SKS-70H	1940	1560	2.236	16100	20130	24150	28180	32200			
SKS-80H	1940	1860	2.722	19600	24500	29400	34300	39200			

(\*) F: Net air passage area (m²)





# Air Handling Units Without Thermal Bridge



The "SKS T" model thermal bridge-free air handling units are specially designed units that meet the demands of advancing air conditioning technology. They aim to minimize the risk of condensation on the internal or external surfaces of the unit, keep the heat transfer coefficient at a minimum, and reduce heat losses to the lowest possible level.

The "SKS T" model air handling units comply with the requirements of DIN EN 1886. To eliminate thermal bridging, the unit profiles consist of two separate profiles: an inner and an outer profile, which are joined using polyvinyl-based insulating tapes.

The "SKS T" model units utilize double-walled panels. The outer surfaces of the panels are made of PVC-coated DKP sheet metal, while the inner surfaces are made of galvanized sheet metal. Similarly, to eliminate thermal bridging in the panels, any contact between the inner and outer sheets is completely eliminated, and "H"-shaped special insulating tapes are used at the joint sections.

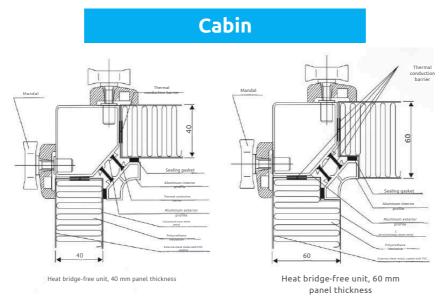
In the panels of "SKS T" model units, as in other models, polyurethane foam [50 kg/m<sup>3</sup>] that is injected and expands is used. The "SKS T" model air handling units are produced in two different panel thicknesses: 40 mm (model SKS-T40) and 60 mm (model SKS-T60). Each model is manufactured in 14 different sizes with airflow capacities ranging from 1500 m<sup>3</sup>/h to 90,000 m<sup>3</sup>/h.

"SKS T" thermal bridge-free air handling units meet the following requirements of DIN EN-1886.





## Air Handling Units Free from Thermal Bridging



Specially extruded aluminum profiles and double-walled polyurethane-filled panels, available in thicknesses of 40 mm and 60 mm, are utilized in the cabin construction of SKS-T model air handling units. However, at the customer's request, rockwool or glasswool insulation of equivalent thickness may also be employed. The outer surfaces of the panels consist of PVC-coated DKP sheet metal, while the inner surfaces are constructed from galvanized sheet metal. The panels are affixed to the profiles.

To prevent the formation of thermal bridges, screws are never employed; rather, specialized latches are utilized. Neoprene sealing gaskets are positioned between the panel and the profile. The cabin is equipped with components including a coarse filter, fine filter, fan, and aspirator.

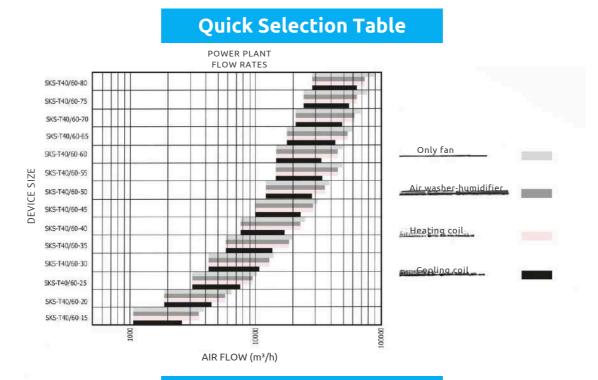
To effectively manage and oversee the units, observation glasses and internal lighting fixtures are employed for the visual inspection of hinged doors, heaters, coolers, humidifiers, heat recovery devices, and fans.







# Air Handling Units Free from Thermal Bridging



#### Power Plant Capacity -1

Мо	del ve ölg	çüler				Аіг	flow rate	2		
Allilanadali	W	Н	F(*)			Frontal	(wneel/cho)ity	(m/s)		
AHU modeli	(mm)	(mm)	m2	2	2,5	3	3,5	4         4,5           3053         3434           5112         5751           8309         9347           11506         12944           15869         17852           20534         23101           26237         29516           32198         36223           39197         44096           39456         44388		5
SKS-T40/60-80	700	700	0,212	1526	1908	2290	2671	3053	3434	3816
SKS-T40/60-75	1000	700	0,355	2556	3195	3834	4473	5112	5751	6390
SKS-T40/60-70	1000	1000	0,577	4154	5193	6232	7270	8309	9347	10386
SKS-T40/60-65	1300	1000	0,799	5753	7191	8629	10067	11506	12944	14382
SKS-T40/60-60	1400	1300	1,102	7934	9918	11902	13885	15869	17852	19836
SKS-T40/60-55	1600	1300	1,426	10267	12834	15401	17968	20534	23101	25668
SKS-T40/60-50	1600	1600	1,822	13118	16398	19678	22957	26237	29516	32796
SKS-T40/60-45	2000	1600	2,236	16099	20124	24149	28174	32198	36223	40248
SKS-T40/60-40	2000	1900	2,722	19598	24498	29398	34297	39197	44096	48996
SKS-T40/60-35	2300	1600	2,740	19728	24660	29592	34524	39456	44388	49320
SKS-T40/60-30	2300	1900	3,290	23688	29610	35532	41454	47376	53298	59220
SKS-T40/60-25	2300	2200	3,840	27648	34560	41472	48384	55296	62208	69120
SKS-T40/60-20	2500	2200	4,380	31536	39420	47304	55188	63072	70956	78840
SKS-T40/60-15	2500	2500	5,010	36072	45090	54108	63126	72144	81162	90180

(\*) F: Net hava geçiş alanı (m²) İsitma, soğutma, hava yıkayıcı : Yalnız ısitma : Only fan:





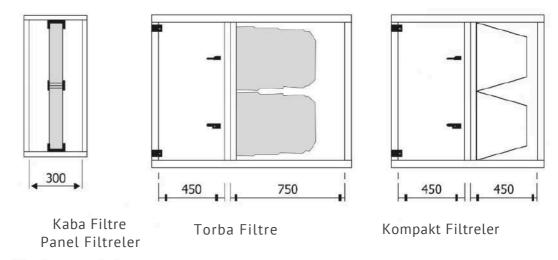


Air Handling Units Free from Thermal Bridging

Power Plant Capacity -2

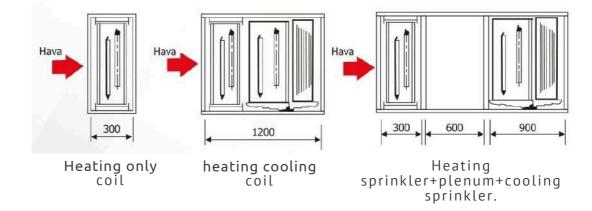
#### 01 - Filters

a-] Rough Panel Filters b-] Bag Filters



#### 02- Heating and Cooling Coils

a-) Hot Water Heating Serpentines b-] Steam Heating Serpentines c-) Cold Water Cooling Serpentines d-] Direct Expansion Serpentines







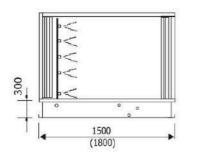


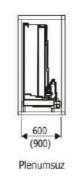
# Air Handling Units Free from Thermal Bridging

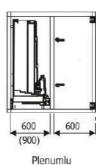
## Power Plant Capacity - 3

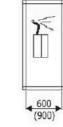
#### 03- Humidifier

a-] Air Washers b-) Fill Type Humidifiers c-) Steam Humidifiers







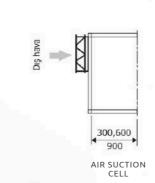


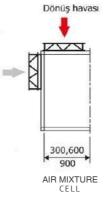
Air washer-humidifier

Filling type humidifier

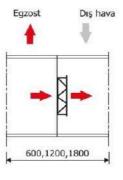
Steam humidifier

#### 04 - Air Inlet and Mixing Cells





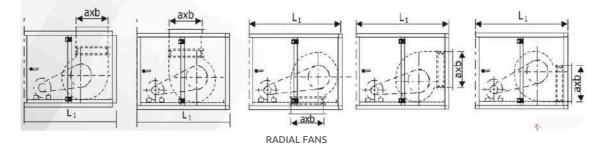
Dis hava



AIR EXHAUST AND MIXTURE CELL

#### 05 - Fan and Exhauster

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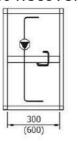


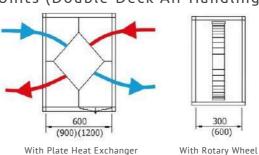
# Air Handling Units Free from Thermal Bridging

#### **Power Plant Capacity -4**

#### 06-Isı Geri Kazanım Elemanları

- a) Double-Coil Heat Recovery Units (Single and Double-Deck Air Handling Units)
- b) Plate Heat Recovery Units (Double-Deck Air Handling Units)
- c) Rotary Wheel Heat Recovery Units (Double-Deck Air Handling Units)

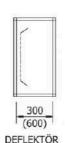


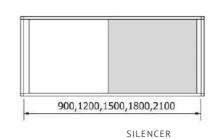




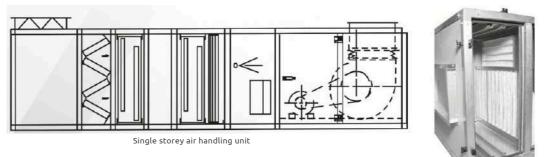
Double Coil

#### 07-Deflektör ve Susturucular





Here, only a few examples of application examples of "SKS T" model air handling units are given. Detailed applications and module For their construction, please refer to the "SKS" standard model air handling units catalogue.



Air suction chamber, V-type filter, air heater, air cooler, steam humidifier, fan



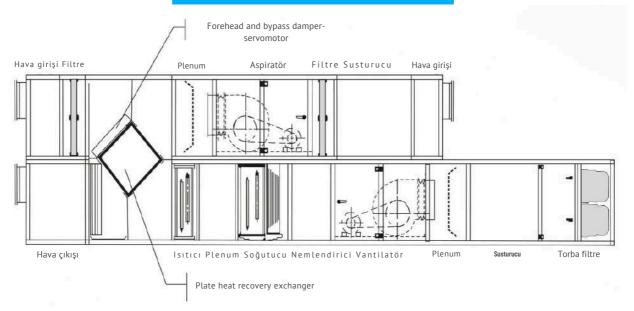




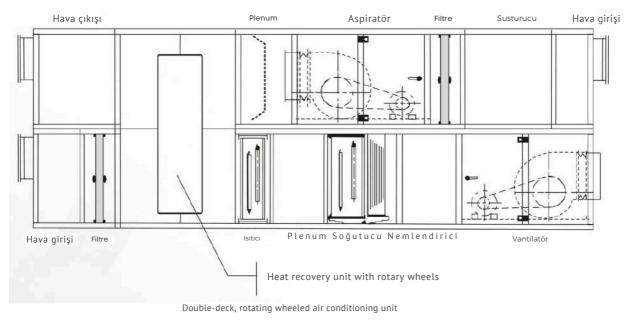


# Air Handling Units Free from Thermal Bridging

## Application Examples - 2



# Double-deck air conditioning unit with plate heat exchanger

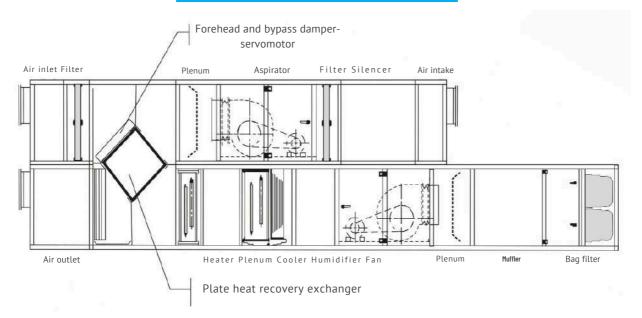




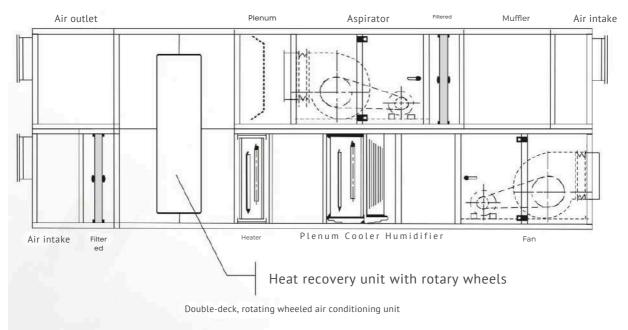


# Air Handling Units Free from Thermal Bridging

## Application Examples - 2



# Double-deck air conditioning unit with plate heat exchanger







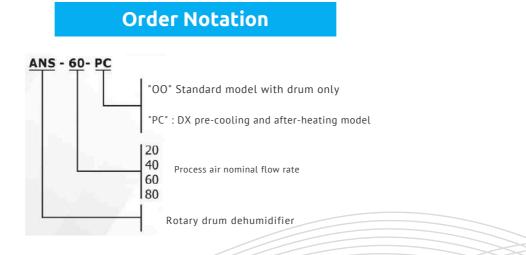


"ANS" Model

ANS series absorption dehumidification units use "dessicant" rotary drums that operate on the absorption principle, one of the latest innovations in air conditioning and ventilation technology, and thus relative humidity rates of up to 8% are achieved, allowing greater amounts of moisture to be removed with much smaller air flow rates compared to classical cooling coil dehumidifiers.

It requires very low initial capital and operating costs compared to other systems because it requires low air flow rates, does not use the DX cooling cycle at all, or is used in a joint application style in extreme cases.

Due to the extremely low relative humidity they provide, they are ideal devices for applications such as indoor swimming pools, ice skating rinks and the pharmaceutical industry that require extremely low relative humidity.



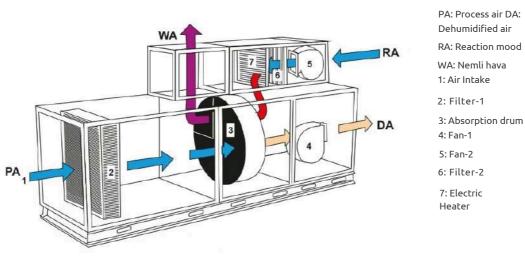
# 55



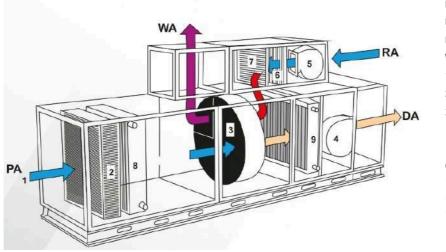


#### Process Examples - 1

ANS series dehumidifiers consist of a main body consisting of an air damper, air filter, absorption rotary drum and fan as standard, and a reaction air unit consisting of a fan, filter and electric heater mounted on this body. This application is seen in the schematic picture below.



In cases where lower relative humidity rates and post-process delivery air is required to be blown under ambient conditions, DX air coolers and heater coils can be added to the device. This application is shown in the schematic drawing below.



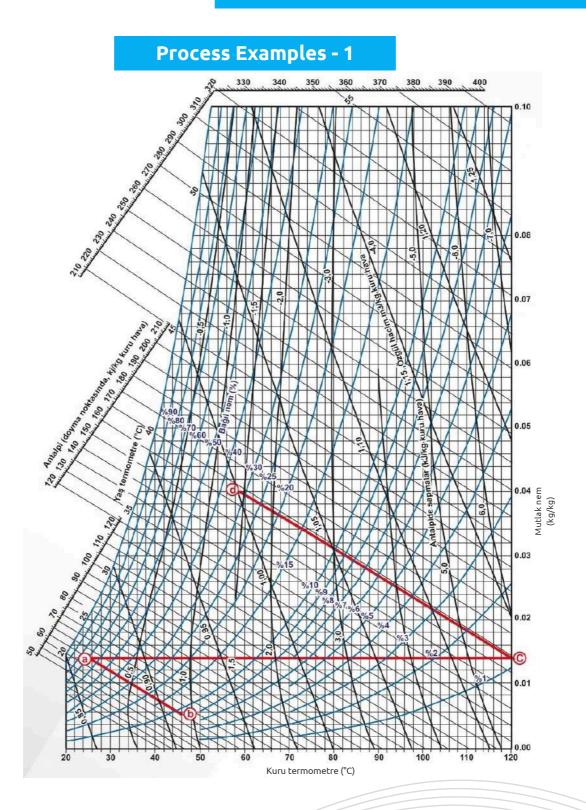
PA: Process air DA: Dehumidified air RA: Reaction mood WA: Nemli hava 1: Air Intake 2: Filter-1 3: Absorption drum 4: Fan-1 5: Fan-2 6: Filter-2 7: Electric Heater 8: DX cooler 9: Air Heater

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Application - 1



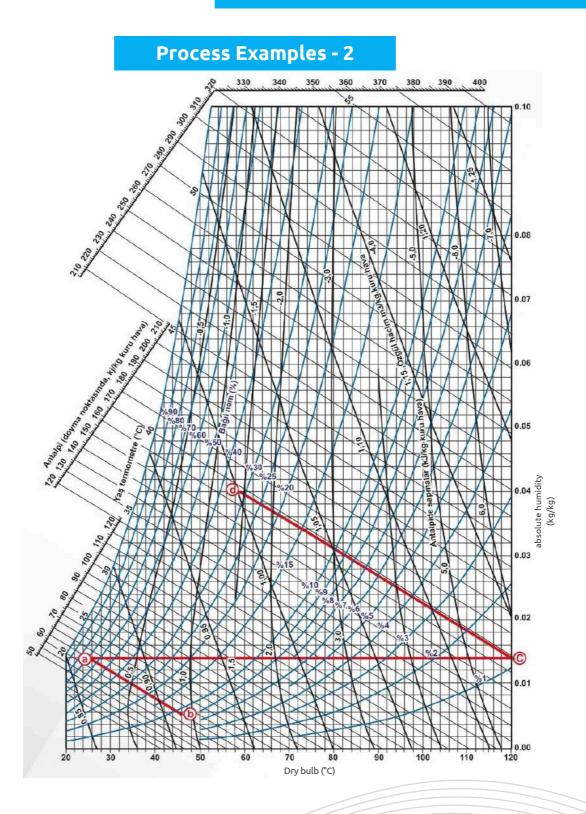










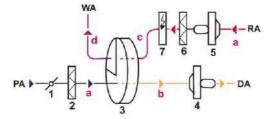




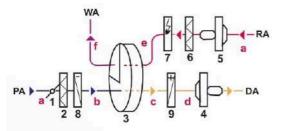




#### **Process Examples - 3**



PA: Process air DA: Dehumidified air RA: Reaction air WA: Humidified air



PA: Process air DA: Dehumidified air RA: Reaction air WA: Humidified air 1: Two-position damper 2: Air Filter 3: Absorption drum 4: Fan 5: Reaction air fan 6: Air Filter Psychrometric process diagram of Application-1

- 1: Two-position damper
- 2: Air Filter
- 3: Absorption drum
- 4: Fan

5: Reaction air mortal

6: Air Filter

7: Electric air heater a: Air inlet condition: 26.5 °C DB, 65% rH b: Dehumidified air c: Heated dry air: 120 °C d: Humid air

PROCESSES:

ab: Dehumidification in the absorption rotary drum ac: Heating the air in the electric heater cd: Transfer of moisture to the reaction air

Psychrometric process diagram of Application-2

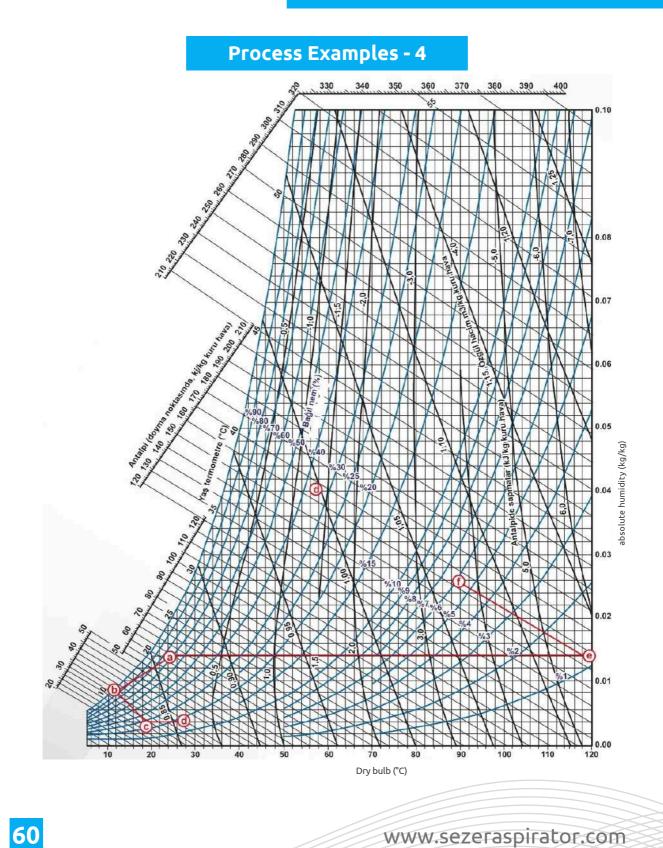
- 7: Electric air heater 8: DX air cooler 9: Air Heater a: Air inlet condition: 26 °C DB, 65% rH b: DX cooler outlet: 12 °C DB, 95% rH c: Absorption drum outlet: 19 °C DB, 30% rH
- d: Air heater outlet: 26 °C DB, 20% rH
- e: Reaction air elc. heater outlet:120 °C
- f: Humid exhaust air

PROCESSES: ac: Cooling of air in DX cooler bc: Dehumidification in absorption drum cd: Heating of air ae: Heating of reaction air to 120 °C ef: Transfer of moisture to reaction air and exhaust

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#### Cabin

In the cabin construction of all ANS series dehumidifiers, as in SKS type air conditioning units, specially drawn aluminum profiles and double-walled 55 mm thick panels are used. Due to the high temperature of the reaction air, rock wool is used as insulation filling material in the panels. The outer surfaces of the panels are made of oven-painted galvanized sheet metal, while the inner surfaces are made of hot-dip galvanized sheet metal. The panels are connected to the profiles with special self-tapping screws, and neoprene sealing gaskets are placed between the panel and the profile.

Hinged doors are used to control and maintain elements such as filters, heating and cooling batteries, rotary drums and fans on the cabin, and observation windows are used to visually inspect the fan and adsorption drum.

Depending on customer demand or the size of the device, the device can be made in multiple pieces.

Fans

High efficiency "Plug" fans are used in ANS model dehumidifiers. Plug fans are directly coupled to electric motors with suitable power and their flow rates are adjusted with frequency converters. There are ports on the suction funnel of the fans used for flow rate measurement. The differential pressure measurement made on these ports is converted to flow rate in DDC control panels and thus the fan flow rate can be controlled in parallel with the preloaded program.

#### **Electric Motors**

The electric motors used in the "ANS" model dehumidifiers are three-phase, squirrel cage, asynchronous type with IP54 protection class, suitable for frequency converter applications and are supplied by the manufacturer directly coupled to the plug fan.

Frequency converters suitable for fans and motors are located in the control panel, which is an integrated part of the air conditioner, and operate in parallel with the pre-programmed automatic control scenario.

#### Capacity Table

Capacities are values obtained without pre-cooling. If pre-cooling and postheating are performed, the capacities listed above are At 26°C KT, 65%rH air inlet conditions, it increases from 7.85 gr/kg to 9.80 gr/kg. In other words, the capacity increases by 25%.









## **Absorption Dehumidification Plants**

#### **Filters**

In "ANS" series devices, G4 class coarse filters are used as standard in process and reactive air inlets. If desired, filters can be placed at the borders and/or two or more stage filters can be applied. In this case:

Panel Filters: In standard application, panel filters in G4 class are produced in "V" format. They are placed on the slides as slides. Filters can be replaced via the openable side cover.

Bag Filters: On request, filter class F9 quality, bag filters produced by a wellknown and certified manufacturer can be used. In this case, bag filters are mounted on special panels with clips. In bag filter applications, it is recommended to apply a G4 Class filter before this filter.

In addition to the two-stage filter used in standard production, multi-stage filter applications can also be made in line with customer demand. In this case, G4 and F7 filters are placed on the suction side of the fan, and the F9 filter is placed on the blowing side.

**Absorption Drum** 

The main unit, which is considered the heart of the ANS series dehumidifiers, is the absorption heat recovery drum. The drum, which consists of fibro glass, silica gel and acrylic surface coating, discharges the moisture it absorbs from the high place with its extremely slow rotation on the hot side and thus performs the dehumidification process.

Thanks to the extremely high silica gel (82%) it contains, it achieves high efficiency in dehumidification processes and can carry moisture up to 40% of its own weight from one side to the other.







#### **Automatic Control Support**

Programmable control panels are used in the automatic control of ANS series dehumidifiers. Control panels are one of the most advanced automatic control systems of their kind, consisting of a 16-bit microprocessor, "flash" memory, RAM, capable of giving messages in various languages including Turkish, and capable of communicating with widely used communication standards directly or through "gateways" such as Modbus, BACnet, METASYS, DLL for Windows, TCP/IP, SNMP, Lonworks, TREND, Konnex.

The "Small" or "Medium" types of control panel are the standard control equipment of the "ANS" series devices. This panel has 8 "DI", 8 "DO", It has 5 "Al" and 4 "AO" signal inputs and outputs and is programmed for the following operations.

- 01-4 level filter control (two positions and maximum)
- 02- Electric reaction air heater biner [**stage**] control
- 03- Absorption drum location information (**4 humidity and temperature**)
- 04- Control of reaction and process fans (two-position and proportional)
- 05- Dehumidification control (two-position and proportional)



Programmable control panel







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	Hava det	Hava debiteri (m <sup>3</sup> /hr)			Van	Vantilatörler			I fault bacan	
MODEL	Droses havası	Dealtif have	Elektrikli sitici	Prose	Proses havası	Reak	Reaktif hava	(1) (1) (1) (2)	ridrict odsing	VINITI UNIT
		ערמערון וומעמ	(AVA)	Model	Güç (KW)	Model	Güç(KW)	(-) (+) (	1011	Tanut
ANS-20	2.000	670	20	plug-fan	0,75	plug-fan	0,75	18,40	200	21,50
ANS-40	4.000	1.350	40	plug-fan	1,50	plug-fan	0,75	36,80	200	42,25
ANS-60	6.000	2.000	60	plug-fan	3,00	plug-fan	0,75	55,20	200	63,75
ANS-80	8.000	2.700	80	plug-fan	4,00	plug-fan	1,10	73,60	200	85,10

1) Dehumidification capacities are valid for 26°C DB, 65%rH inlet conditions and sea level. 2) Dehumidification capacities are the values obtained without pre-cooling. **APPLICATION-2** 

	Hava deb	Hava debileri (m3/hr)			Vant	Vantilatörler			Name and	Total and		11-11-11-11-11-11-11-11-11-11-11-11-11-	10-11-10-10
MODEL	Drucee hauaci	Dashtif have	Elektrikli Isitio	Prose	Proses havası	Reak	Reaktif hava	Soguma Kap.	LIMIT UNICO	thind Kdp.	No. Jun 11/17/27		VINN UNIT
	ICDADI COCOLI	_	N.	Model	GÜÇ(KW)	Model	Güç(kW)	(C)MAN	(C)MA	(T)WN	(7) (T) (111/6N)	(10)	(MAN)
ANS-20	2 000	670	20	plug-fan	0,75	plug-fan	0,75	19,00	3,70	5,00	22,38	200	25,20
ANS-40	4.000	1.350	40	plug-fan	1,50	plug-fan	0,75	38,00	7,30	10,00	44,75	200	49,55
ANS-60	6.000	2.000	60	plug-fan	3,00	plug-fan	0,75	57,00	11,50	15,00	67,13	200	75,25
ANS-80	8.000	2.700	80	plug-fan	4,00	plug-fan	1,10	76,00	15,20	20,00	89,5	200	100,30

# Notlar:

1) Dehumidification capacities are valid for 26°C DB, 65%rH inlet conditions and sea level. 2) Dehumidification capacities are the values obtained without pre-cooling.

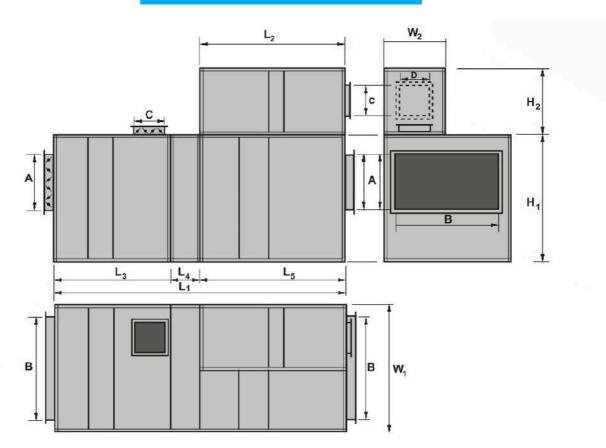
3) The cooling system is for +7 °C evaporation and +5 °C superheating with R-407 °C.

4) Heating System is for 90/70 °C hot water or low pressure steam. Consult factory for electric heater.





## Dimensions



-		Dimensions														
MODEL	А	В	С	D	E	F	L1	L2	L3	L4	L5	W1	W2	H1	H2	
ANS-20	600	900	300	500	300	500	3340	1640	1340	360	1640	960	560	960	560	
ANS-40	600	1200	300	500	300	500	1980	1980	1340	360	1980	1260	560	1260	560	
ANS-60	600	1200	300	600	300	600	1980	1980	1340	360	1980	1260	660	1260	660	
ANS-80	600	1500	300	700	300	700	1980	1980	1340	360	1980	1560	760	1560	760	

All measurements are in millimeters.

The above dimensions are valid if the device is manufactured in four modules (L2, L3, L4 and L5). ANS series devices can be manufactured as monoblocks in line with customer requests.





## Package Type Hygienic Air Conditioning Units



"PHS" Model

"PHS" model hygienic air conditioning units are a product of today's advancing air conditioning technology, especially in areas requiring high indoor air quality (IAQ) and a particle-free environment, such as operating rooms, delivery rooms, intensive care rooms, electronics and optics industries.

They are packaged air handling units designed and manufactured to meet the needs of spaces classified according to US Federal Standard 209E, EN ISO 14644-11e or German VDI 2803/11.

"PHS" series devices are designed to meet all climatological needs of operating rooms and similar clean rooms and to fulfill the following functions and have a wide range of selection. We can list the standard and optional operational features of the independent packaged air conditioning unit PHSs that contain all the systems as follows:

a-High efficiency filtration of air-conditioned air and return/exhaust air, b-Control of room temperature and, if desired, relative humidity throughout the year,

c-Depending on customer demand, 100% fresh air requirement when operating rooms are in use and 50% when not in use. meeting their needs.

d- Extremely low noise level and vibration-free operation.

e- Remote control option via touch screen by authorized healthcare professionals.

f - Over 50% heat recovery and energy saving in heating due to the high efficiency plate heat exchanger it contains.

g- "Heat pump" feature in the devices and thus additional minimum 60% energy saving.

h-Addition of electric or hot water heating system if desired.

i- Adjustment and control of ventilation/aspiration flow rates with an automatic control system in order to provide the desired positive pressure in air-conditioned spaces.

PHS series package type hygienic air conditioners are produced in two different types: monoblock "PHS-M" and split "PHS-S".

Both types of PHS series have a plate heat recovery exchanger as standard equipment. All PHS-M and PHS-S models are available with heat pump or conventional DX cooling plus electric/hot water heating.





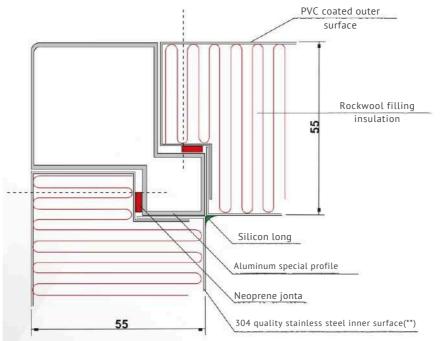


Package Type Hygienic Air Conditioning Units

#### Cabin

Hinged doors are provided to control and maintain the elements such as coarse filter, fine filter, fan and aspirator on the cabin, and observation windows are provided to visually inspect the heater/cooler, humidifier, heat recovery devices and fans. is used.

The compressor and cooling accessories, the steam humidifier are placed in a separate cabinet and have no contact with the conditioned air. Likewise, the copper piping and electrical cables run through special hermetic routes. Depending on customer demand or the size of the device, the device can be made in multiple pieces.









# Package Type Hygienic Air Conditioning Units

#### Fans



High efficiency EC fans are used in PHS model air conditioners. EC fans are directly coupled to electric motors of suitable power and their flow rates are adjusted with frequency converters. There are ports on the suction funnel of the fans used for flow rate measurement.

The differential pressure measurement made at these ports is converted into flow rate in DDC control panels.

#### **Electric Motors**

The electric motors used in the "PHS" model hygienic air conditioning units are three-phase, squirrel cage, asynchronous type with IP54 protection class, suitable for frequency converter applications and are supplied by the manufacturer directly coupled to the plug fan.

Frequency converters suitable for fans and motors are located in the control panel, which is an integrated part of the air conditioning units, and operate in parallel with the pre-programmed automatic control scenario.

#### Filters

Filter placements and filter selections are made in accordance with DIN 1946-4. According to this standard, coarse filters are placed on the air inlet side of the device. The sensitive compact filters are placed on the discharge side of the fan, in other words, on the high pressure side.

Panel Filters: Panel filters in the G4 class are produced in the "V" format. Filters placed on the slides can be replaced using the openable side cover.

Compact Filters: As filter class F9 quality, compact filters produced by a wellknown and certified manufacturer are used.

Compact filters are mounted on special panels with clips.

In addition to the two-stage filter used in standard production, a three-stage filter can also be applied in line with customer demand.

In this case, G4 and F7 filters are placed on the suction side of the fan, and the F9 filter is placed on the blowing side.







#### Fans

Epoxy coated copper tube aluminum fin heat exchangers are used for their hygienic compliance. Heat pump model-

Both the inner and outer coils are equipped with inlet-outlet collectors and distributors that can function as both evaporators and condensers.

All models use externally balanced thermostatic expansion valves. In "PHS" series air conditioners, cooling cycles are given in two alternatives.

Heat pump models: In these models, there is a single serpentine in the air conditioner, which performs cooling or heating according to seasonal needs. Summer-winter changeover is carried out automatically or manually by means of a solenoid-controlled 4-way changeover valve. In heat pump models, an electric heater of the desired power can be placed on the fan blowing side, if desired.

Classic models: Classic type packaged hygienic units have two heat exchangers. One of them is the DX air cooling coil.

In addition to this cooling-only serpentine, there is also an air heater serpentine. The heater element, the capacity of which is determined according to the project and/or location conditions, can be hot water or electric, depending on customer preference. In hot water serpentines, optional proportional coil motors of suitable diameter are used, while in electric heaters, thousand-stage "triac" proportional control systems are used.

It is stated.

#### Heat Recovery

#### Plate heat exchanger with front and bypass dampers

Plate heat recovery elements are used as standard equipment in the "PHS" series hygienic package type air conditioners.

Plate heat exchangers made of pure aluminum, which only recover heat on a drybulb basis, are preferred, and due to the hygienic usage problems, plate heat exchangers made of paper impregnated with cellulose-based bromide solutions are used. There is a sweat pan on the exhaust air side due to the possibility of condensation.

In cases where the exchanger fresh air inlet temperature is lower than -3°C, it is recommended to use plate exchangers with automatic defrost system including bypass damper.







#### Fans

There is no humidifier in the standard models of the "PHS" series hygienic air conditioners, but there are places where the humidifier generator and spray nozzle can be mounted. Steam humidifiers can be mounted on the devices as fully automatic proportional or two-position controlled upon customer request. Humidifier capacity can be selected as in the table and in different capacities. Two connected humidity measuring devices must be mounted on the device together with the humidifier. One of the sensors will perform the limiting function for the blowing side, the other will perform the control function for the room-related humidity.

The only external connection of the humidifiers is the 1/2" diameter cold water connection. Filtered and purified water should be preferred for the life of the humidifier generator.



Proportional controlled steam humidifier

UV(C) LAMPS

UV[C] lamps are used in "PHS+plus" series package type hygienic units. A sufficient number of UV[C] lamps are mounted in the plenum cell placed between the cooling coil and the droplet eliminator. In this way, the reproduction of microorganisms on the coil surface is prevented. As a result of the clean coil, approximately 15% energy saving is achieved and clean air-conditioned air delivery is possible.

#### Automatic Control Equipment - 1

Programmable control panels are used in the automatic control of the "PHS" series package type hygienic air conditioners. The control panels are one of the most advanced automatic control systems of their kind, consisting of a 16-bit microprocessor, "flash" memory, RAM, capable of giving messages in various languages including Turkish, and capable of communicating directly with widely used communication standards or via "gateways" such as Modbus, BACnet, METASYS, DLL for Windows, TCP/IP, SNMP, Lonworks, TREND, Konnex.

Control panels are the standard control equipment of "PHS" series devices. This panel has 18 "D1", 18 "Do", 10 "Al" and 6 "AO" signal input and output and is programmed for the following operations.







### Automatic Control Equipment - 1

01- 5 level filter control (two position and maximum)

02 - First stage heat exchanger control (two-position or proportional) 03- 2nd stage heat exchanger control-heat pump, electric heater

(proportional, 2-position, 3-stage)

04 -Cooling control (two-position and proportional)

05- Humidifier control (two-position and proportional)

06- Heat recovery element control (two positions)



**Remote control panels** 

When a wider range automatic control system requiring more input-output is required in line with customer demands, "pC03 Large" or "pC02 Extra Large" panels are used depending on the number of input-outputs.

In addition to control panels, it is also possible to integrate remote control devices with displays into the panel in line with customer demand.

The indicator control devices used for this purpose can be moved to a desired location outside the main device, for example, to the operating room, and the necessary settings can be made from there. The system diagram can be programmed on the screen of this device and any control and/or process changes can be made thanks to the touch screen.

•	
Capacity	Tahla - 1
Capacity	

**RATED CAPACITIES** 

MODEL	PHS-24	PHS-36	PHS-48	PHS-60	PHS-72	PHS-84	PHS-100	PHS-120
		Vantilato	or ve Aspirat	örler				
Fan type	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Air flow rate (m <sup>3</sup> /h)	2400	3.600	4.800	6.000	7.200	8.400	10.000	12.000
Total external pressure (Pa)	800	800	800	800	800	800	800	800
Motor Power (kW)	4,00	4,00	5,50	7,50	7,50	7,50	11,00	11,00
Aspirator type	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Air flow rate (m <sup>3</sup> /h)	2400	3.600	4.800	6.000	7.200	8.400	10.000	12.000
Total external pressure (Pa)	300	300	300	300	300	300	300	300
Motor Power (kW)	0,75	1,10	2,20	2,20	3,00	4,00	4,00	7,50







### Capacity Table -2

#### Refrigeration Compressors and Capacities

Refrigerant	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C	R-407C
Compressor type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Number of compressors	1	1	1	1	2	2	2	2
Cooling capacity (kW)(1)	23.6	34.7	47.3	53.7	69.5	82.0	94.6	107.5
Heating capacity (kW)(1)	17.5	25.0	35.0	40.0	50.0	60.0	70.0	80.0
Compressor power (kW)	7,5	11,5	13,5	18,0	2x11,5	2x13,5	2x13,5	2x18
Comp. nominal ampere	15,5	22,4	26,9	34,0	2x22,4	2x26,9	2x26,9	2x34

#### Heating Types and Capacities (3)(4)

Hot water heating (kW)	Determined according to project requirement and customer demand
Electric heater (kW)	Determined according to project requirement and customer demand

Heat Recovery Exchanger									
Model	ARP-H	ARP-H	ARP-H	ARP-H	ARP-H	ARP-H	ARP-H	ARP-H	
Sensible heat efficiency (%)	56	56	56	58	58	60	60	60	
Automatic defrosting	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	

Right to technical changes reserved.

#### Notes:

01 +7°C evaporation, 5°C superheating and 50°C condensation 02-0 °C evaporation, 5 °C superheating, +10 outside air and 50 °C condensation

03-Heating coils are optional.

04 - The electric heater can optionally be in duct type in heat pump models. 05-If the outside temperature is below -3 °C, it is mandatory.

# Order Notation

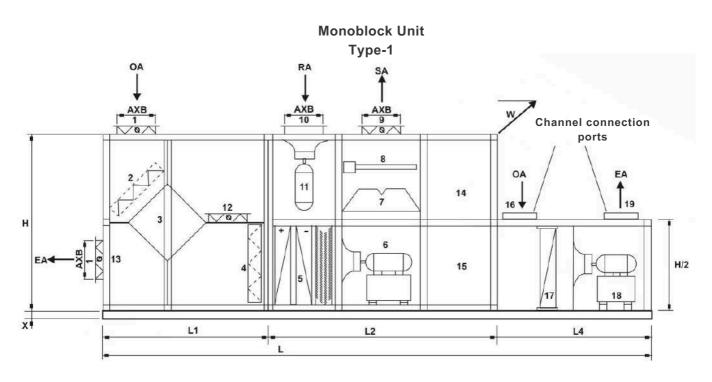
PHS-24-SK	Type of construction
	SK : Classic Split
	SH :Split heat pump
	M1K Monobloc classic type-1
	M1H Monoblock classic type-1 (condenser with plug fan) M2K Monoblock classic type-2 (condenser with plug fan)
A	M2H Monoblock heat pump type-2 (condenser with axial fan)
	Rated capacity Please refer to the capacity table
	Device description
	packet tip hijyenik central

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**Dimensions - 1** 



- 01-Fresh air intake + damper
- 02 You filter G4
- 03-Heat recovery exchanger
- 04-F6-F7 filter(optional)

05-Heating and DX cooling coils and drift eliminators

- 06 Fan
- 07-F9 compact filter
- 08-Steam humidifier (optional)
- 09 Fresh air outlet
- 10 Return air

- 11- Aspirator
- 12-By-pass damper [optional)
- 13 Exhaust
- 14-Electrical control and automation
- 15-Compressor and cooling equipment
- 16-Condenser air inlet
- 17- Air cooled condenser
- 18 Condenser plug fani
- 19-Condenser exhaust

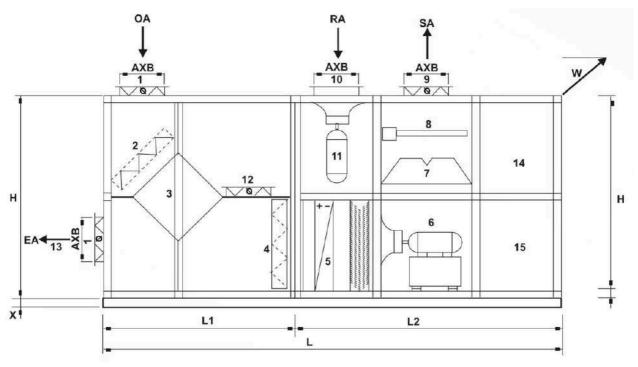
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# **Dimensions - 2**

#### Split Type Heat Pump



- 01-Fresh air intake + damper
- 02 You filter G4
- 03-Heat recovery exchanger
- 04-F6-F7 filter(optional)
- 05- Heating and DX cooling coils and drift eliminators
- 06 Fan
- 07-F9 compact filter
- 08-Steam humidifier (optional)

- 09 Fresh air outlet
- 10 Return air
- 11- Aspirator
- 12-By-pass damper (optional)
- 13-Exhaust
- 14 Electrical control and automation
- 15- Compressor and cooling equipment





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### Swimming Pool Air Conditioning and Dehumidification Units

### **HNS Model**



HNS type package units are used to remove excess moisture caused by surface evaporation in indoor swimming pools and to provide

They are special air conditioning units designed to provide optimum comfort throughout the year. Relative humidity exceeding 60% is only

It not only disrupts comfort conditions, but also causes condensation to form on walls and windows,

It also damages all the installation elements in the area. HNS series units provide the highest comfort conditions in the pool.

They are packaged type air conditioning units designed to eliminate high absolute humidity when necessary.

HNS type air conditioners have a cooling group, an electric control panel and programmable automatic control equipment.

Since they are electrically powered, they do not require anything other than being brought to the neighborhood where the necessary electrical installation is located in order to operate.

The electric motors used in the "HNS" model dehumidifiers are three-phase, squirrel cage, asynchronous type with IP54 protection class.

It is a type suitable for frequency converter applications and is supplied by the manufacturer directly coupled to the plug fan.

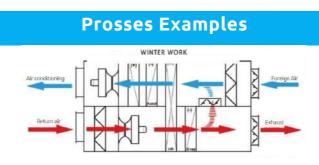
Frequency converters suitable for fans and motors are located in the control panel, which is an integrated part of the air conditioner.

It operates in parallel with the pre-programmed automatic control scenario.



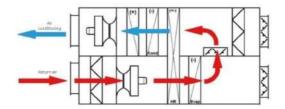






In winter operation, when the absolute humidity of the outside air is lower than the absolute humidity of the pool area, no cooling is required.

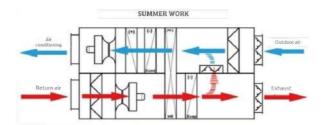
The humidity of the space is kept at the desired level by increasing and decreasing the outside air ratio without the need for a heating process. In this case, the heating heat pipe (HR) will recover a certain percentage of the heat of the exhausted air. The necessary heat addition will be provided by the heating battery.



During the transition from winter to summer and/or during night operations, the indoor air is circulated and passed through the evaporator and condenser.

Absolute humidity is reduced. A similar process can also be applied during night work in the winter when there is no need for a certain amount of outside air.

In this case, the system operates with 100% indoor air, but no dehumidification is applied. Only a certain amount of heating is applied to prevent the space from cooling too much.



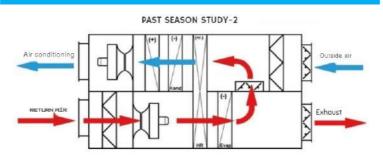
During summer operation, the recirculated air is cooled by passing through the evaporator and its absolute humidity is reduced. Then, the air heated in the condenser is delivered to the space with its relative humidity reduced to the desired level. During this process, the fresh air required for comfort is also mixed with the recirculated air.







### **Prosses Examples 2**



During the transition from summer to winter [and similar winter to summer transitions], if the relative humidity and temperature of the outside air are suitable, 100% is delivered to the neighborhood. If necessary, the temperature of the space is provided by heating or cooling batteries.

In the cabin construction of all HNS series dehumidifiers, as in SKS type air handling units, specially drawn aluminum profiles and double-walled 55 mm thick panels are used. The outer surfaces of the panels are made of oven-painted galvanized sheet metal, while the inner surfaces are made of hot-dip galvanized sheet metal. The panels are connected to the profiles with special self-tapping screws, and neoprene sealing gaskets are placed between the panel and the profile.

You can check and maintain the elements such as filters, heating and cooling batteries, heat pipes and fans on the cabin.

Hinged doors are used to ensure visual control of the fans, and observation glasses are used to ensure visual control of the fans. Depending on customer demand or the size of the device, the device can be made in multiple parts.

Depending on customer demand or size. the device can be made in multiple pieces.









### **Automatic Control Equipment**

Programmable control panels are used in the automatic control of "HNS" series dehumidifiers. Control panels are one of the most advanced automatic control systems of their kind, consisting of a 16-bit microprocessor, "flash" memory, RAM, capable of giving messages in various languages including Turkish, and capable of communicating with widely used communication standards directly or through "gateways" such as Modbus, BACnet, METASYS, DLL for Windows, TCP/IP, SNMP, Lonworks, TREND, Konnex.

Control panels have sufficient number of "DI", "DO", "AI", and "AOI" signal inputs and outputs required by the process and are programmed for the following operations.

01- Measurement and control of space temperature

- 02 Measuring outside air temperature
- 03-Measurement of external absolute humidity

04 - Measurement and control of relative humidity

05-Automatic summer-winter changeover depending on indoor and outdoor temperature

06-Controlling the relative and absolute humidity levels of indoor and outdoor air and selecting and implementing the necessary dehumidification control process.

07- Supply and control of the desired amount of fresh air

In addition to control panels, remote control panels can also be added to the system in line with customer demands. The system flow diagram is monitored on the monitors used for this purpose, and necessary setting changes can be made by touching the symbols.



Programmable control panel used in HNS series switchboards

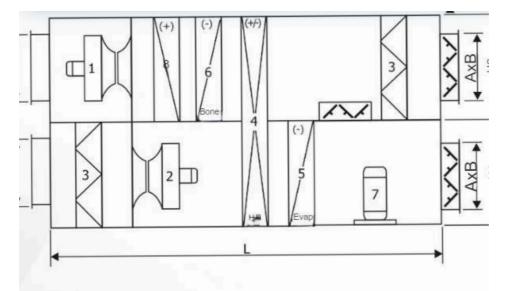
High efficiency EC fans are used in HNS model dehumidifiers. EC fans are directly coupled to electric motors with suitable power and their flow rates are adjusted with frequency converters. There are ports on the suction funnel of the fans used for flow rate measurement. The differential pressure measurement made on these ports is converted to flow rate in DDC control panels and thus the fan flow rate can be controlled in parallel with the pre-loaded program.





### Dimensions

D. t. T			E	Dimensions (mm	i)		1						
Device Type	L	Н	W	W H1 H2		CxD	AxB						
HNS-025	3430	1740	980	830	830	900X300	900X300						
HNS-040	3430	1740	1170	830	830	900X300	900X300						
HNS-060	3690	2040	1280	<mark>980</mark>	980	900X600	900X600						
HNS-080	3880	2040	1620	980	980	1200X600	1200X600						
HNS-100	4070	2420	1620	1170	1170	1200X600	1200X600						
HNS-120	4030	2530	1620	1170	1280	1200X750	1200X750						
HNS-140	4030	2530	1770	1170	1280	1200X900	1200X900						
HNS-160	4220	2530	2220	1170	1280	1540X750	1540X900						
HNS-180	4220	2530	2220	1170	1280	1540X900	1540X900						
HNS-200	4260	2530	2520	1170	1280	1540X1050	1540X1050						
HNS-220	4260	2530	2520	1170	1280	1840X900	1840X1050						
HNS-240	4410	2530	2860	1170	1280	1840X1050	1840X1050						
HNS-260	4410	2530	2860	1170	1280	1840X1200	1840X120						



01 - Fan 02 - Aspirator

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05 - Evaporator 06 - Condenser





## Capacity Table

	and the second se				MODEL			
	Units	HNS-025	HNS-040	HNS-060	HNS-080	HNS-100	HNS-120	HNS-140
Pool surface (1)	m²	55	88	132	176	220	264	308
Not an apple (1)	kg/h	15	24	36	48	60	75	84
Fan			6 6		h -			
Types		Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Debi	m³/h	2500	4000	6000	8000	10000	12000	14000
The Pases	kW	1,5	2,2	3	5,5	5,5	7,5	7,5
External pressure	Well	750	750	600	600	500	500	500
Aspirator	-						a a	
Types		Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Debi	m#h	2500	4000	6000	8000	10000	12000	14000
The Pased	kW	1,1	2.2	3	5,5	5,5	7,5	7,5
External pressure	Weit	750	750	600	600	500	500	500
Cooling Cap. (2)	kW	18	32	45	68	73	85	99
Heating Cap. (3)	kW	27	51	75	86	121	142	164
Heating Cap. (4)	kW	24,4	40	58	84	94	110	128
Compressor		*	10 U		14			
Types		Scroll						
The Passer	kW	5,9	9,2	13,8	18,4	20,6	27,6	27,6
Heat Recovery	kW	8	12.8	19,2	25.6	32	38.4	44.8

	Units				MODEL		
	Units	HNS-160	HNS-180	HNS-200	HNS-220	HNS-240	HNS-260
Pool aurface (1)	m²	352	396	440	484	528	572
Not an apple (1)	kg/h	96	108	120	135	150	165
Fan					e		
Typos		Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Debi	mðh	16000	18000	20000	22000	24000	26000
The Powel	kW	7,5	10	11,2	12	13	14,5
External pressure	Well	500	500	500	500	500	500
Aspirator			e - 2 - 2				
Types		Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan	Plug-fan
Debi	m³h	16000	18000	20000	22000	24000	26000
The Poset	kW	7,5	10	11,2	12	13	14,5
External pressure	Weil	500	500	500	500	500	500
Cooling Cap. (2)	kW	113	140	150	157	174	210
Heating Cap. (3)	kW	201	240	261	277	310	325
Heating Cap. (4)	kW	146	180	195	202	223	272
Compressor							
Types		Scroll	Scroll	Scroli	Scroll	Scroll	Scroll
The Poper	kW	36.8	40,6	45,3	49,8	54,3	58,6
Heat Recovery	kW	51,2	57.6	64	70,4	76.8	83,2

1) Calculated according to VDI 2089. For calculation according to ASHRAE, please contact the head office.

2) Space conditions are based on 30 °C DB, 60% rH and +7 °C evaporation.

3) 80/60 C hot water is based on 0 ° C outdoor weather conditions. 4) R407C is the condenser capacity based on 54 ° C condensation temperature.





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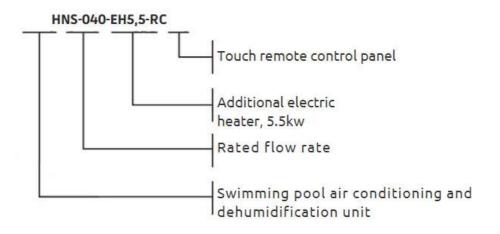
Swimming Pool Air Conditioning and Dehumidification Units

### **Filters**

In HNS series devices, G4 class panel filters are used as standard in process and reactive air inlets.

Panel filters: In standard application, panel filters in G4 class are produced in "V" format. Sliding on the slides.

The filters placed can be replaced via the openable side cover.







#### **DHS Model**



"DHS" model vertical type hygienic air handling units are especially suitable for operating rooms, delivery rooms, intensive care rooms, electronics and optical industries that require high indoor air quality (IAQ) and a particle-free environment, in accordance with US Federal Standard 209E, EN ISO

They are packaged air conditioners designed and manufactured to meet the needs of spaces classified according to 14644re or German VDI 2803/1.

"DHS" model vertical type hygienic air handling units occupy much less space than their counterparts and offer a more economical solution. DHS series devices are designed to meet all climatological needs of operating rooms and similar clean rooms and to fulfill the following functions and have a wide range of selection. We can list the standard and optional operational features of DHS, an independent packaged air conditioning unit that includes all systems, as follows:

a - High efficiency filtration of air-conditioned air,

b- Control of room temperature throughout the year; control of relative humidity if desired,

c- Depending on customer demand, 100% fresh air is required when operating rooms are in use and 50% when not in use. fulfillment of their obligations.

d- Extremely low noise level and vibration-free operation e- Remote control via touch screen by authorized healthcare personnel f- Optional "heat pump" application on devices.

g- If heat pump is not desired, independent "DX" cooling, hot water or electric heating h- Automatic control system of ventilation/aspiration flow rates to provide the desired positive pressure in air-conditioned spaces. adjustment and control.

DHS series vertical package hygienic air conditioning units can be connected to a central cooling cycle or, if desired, can be applied with their own independent and "split" outdoor unit. In case of customer request, an outdoor unit compatible with the DHS unit can be provided.





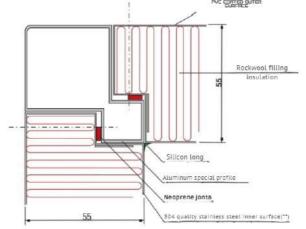




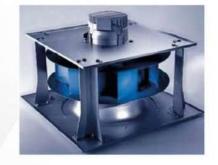
#### Cabin

Specially extruded aluminum profiles and double-walled rockwool filled, 55 mm thick panels are used in the cabin construction of all DHS series upright packaged air conditioners. The outer surfaces of the panels are made of oven-painted galvanized sheet metal, and the inner surfaces are made of AISI 1316 quality stainless steel sheet metal. The panels are mounted to the profiles by means of self-tapping screws, and liquid gasket is used to ensure sealing between the panel and the profile. Optionally, tight-fitting panels with frame gaskets can be used.

Hinged doors are provided to control and maintain elements such as coarse filters, fine filters, fans and aspirators on the cabin, and observation windows are provided to visually inspect heaters/coolers, humidifiers, heat recovery devices and fans.



High efficiency "plug" fans are used in DHS model hygienic air conditioners. Plug fans are directly coupled to electric motors with suitable power and their flow rates are adjusted with frequency converters. There are ports on the suction funnel of the fans used for flow rate measurement. The differential pressure measurement made on these ports is converted to flow rate in DDC control panels and thus the fan flow rate is controlled in parallel wi









#### **Electric Motors**

The electric motors used in the "DHS" model hygienic air conditioners are three-phase, squirrel cage, asynchronous type with IP54 protection class, suitable for frequency converter applications and are supplied by the manufacturer directly coupled to the plug fan.

Frequency converters suitable for fans and motors are located in the control panel, which is an integrated part of the air conditioner, and operate in parallel with the pre-programmed automatic control scenario.

#### Filters

Filter placements and filter selections are made in accordance with DIN 1946-4. According to this standard, coarse filters are placed on the air inlet side of the device, and fine modular compact filters are placed on the discharge side of the fan, in other words, on the high pressure side.

Panel Filters: Panel filters in the G4 class are produced in the "V" format. The filters, which are placed on the slides, can be replaced using the openable side cover.

Compact Filters: As filter class F7-F9 quality, modular compact filters produced by a well-known and certified manufacturer are used. Compact filters are mounted on special panels with clips.

#### Humidifiers -1

The standard models of the "PHS" series hygienic air conditioners include a humidifier, but there are places where the humidifier generator and spray nozzle can be mounted. Steam humidifiers can be installed on the devices as fully automatic proportional or two-position controlled upon customer request. Humidifier capacity is as in the capacity table and can be used in different capacities.

It can be selected on the ground. Two relative humidity measuring devices must be installed on the device along with the humidifier. One of the sensors will perform the limiting function for the blowing side, the other will perform the control function of the room humidity.

The only external connection of the humidifiers is the 1/2" diameter cold water connection. Filtered and purified water should be preferred for the life of the humidifier generator.









#### Humidifiers

Programmable control panels are used in the automatic control of "DHS" series package type hygienic air conditioners. Control panels are one of the most advanced automatic control systems of their kind, consisting of 16-bit microprocessor, "flash" memory, RAM, capable of giving messages in various languages including Turkish, and communicating directly with widely used communication standards or via "gateways" such as Modbus, BACnet, METASYS, DLL for Windows, TCP/IP, SNMP, Lonworks, TREND, Konnex. The panels are programmed for the following operations.

01-1st stage heat exchanger control-heating or cooling coil (two-position or proportional)
02-2nd stage heat exchanger control-heat pump, electric heater (proportional, 2-position, 3-stage)]
03 Humidifier control
04-Fan and aspirator proportional flow control
05 - Freeze alarm
06- Fan failure alarm

07-Aspirator fault alarm

08 - Low room temperature alarm

In addition to control panels, it is also possible to integrate remote control devices with screens into the system in line with customer demand.

This way, the functions on the control panel can be moved to a desired location outside the device, such as the operating room, and the necessary settings can be made from there.











### Capacity

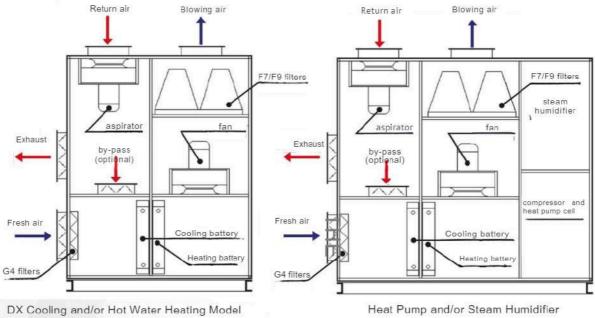
MODEL	DHS-024L	DHS-024H	DHS-036L	DHS-036H	DHS-048L	DHS-048H	DHS-072L	DHS-072H	DHS-096L	DHS-096H	DHS-120L	DHS-120H
				Fans and	Aspirator	5						
Fan type	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan
Air flow rate (m³/h)	2400	2400	3600	3600	4800	4800	7200	7200	9600	9600	12000	12000
Total external pressure (Pa)	800	800	800	800	800	800	800	800	800	800	800	800
Electric motor (kW)	2.2	2.2	3.0	3.0	3.0	3.0	4.0	4.0	7.5	7.5	7.5	7.5
Aspirator type	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan	plug fan
Air flow rate (m³/h)	2400	2400	3600	3600	4800	4800	7200	7200	9600	9600	12000	12000
Total external pressure (Pa)	300	300	300	300	300	300	300	300	300	300	300	300
Electric motor (kW)	1.1	1.1	1,1	1.1	1,1	1,1	2.2	2.2	3.0	3.0	4.0	4.0
		(	Cooling Ca	apacities	and Comp	pressors (	1)					
coolant flows	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a	R410a
Compressor type	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll	scroll
Cooling capacity (Kw)(2)	18.60	27.60	27.90	41,40	37.20	55,20	55.80	82.50	74.40	93.00	110.40	138.00
Heating capacity (Kw)(3)	17.70	26,20	26.50	39,30	35,30	52.40	53.00	78.40	70,70	88.30	104.90	131.10
			Genera	tor Type S	team Hun	nidifier (4)						
Humidification container (kg/h)	5	9	9	18	18	30	30	45	45	60	60	2x45
			Heater C	ption (Ho	ot water o	or electric	c)					
		De	termined acco	rding to projec	t requiremen	ts and custom	er demands					
	- 949 - XA				Filters					1		
Tier 1	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
Tier 2				it is c	letermined acco	ding to project r	equirements and	customer demar	vds.			
final stage	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9	F7/F9





#### Dimensions

Model	w	Н	L(1)	L(2)	AxB	CxD
DHS-024L	960	1940	1300	1940	400x400	400x500
DHS-024H	960	1940	1300	1940	400x400	400x500
DHS-036L	960	2090	1450	2090	500x500	500x500
DHS-036H	960	2090	1450	2090	500×500	500x500
DHS-048L	960	2090	1900	2540	600x600	600x700
DHS-048H	960	2090	1900	2540	600x600	600x700
DHS-072L	960	2090	2200	2840	600×600	600x700
DHS-072H	960	2090	2200	2840	600x600	600x700
DHS-096L	1260	2090	2200	2840	800×800	600x900
DHS-096H	1260	2090	2200	2840	800×800	600x900
DHS-120L	1260	2240	2200	2840	800×800	600x900
DHS-120H	1260	2240	2200	2840	800×800	600x900



and/or Electric Heated Model

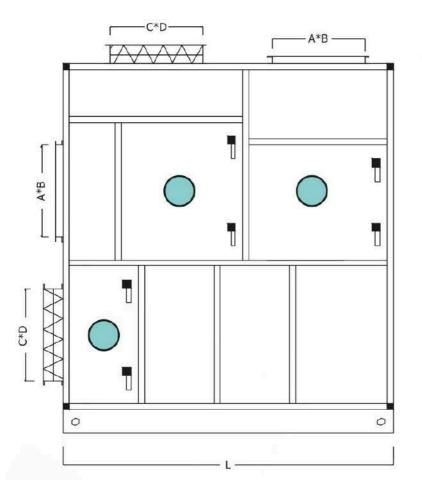


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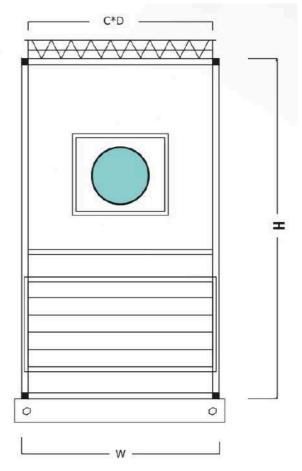


### **Upright Type Packaged Hygienic Air Conditioners**

Dimensions



Heat Pump and/or Steam Humidifier and/or Electric Heated Model



DX Cooling and/or Hot Water Heating Model

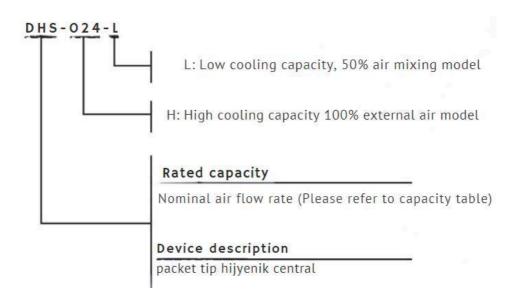


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### Upright Type Packaged Hygienic Air Conditioners

### **Order Notation**



#### It is important:

01 - There is no steam humidifier in standard units. If requested, it must be specified with the desired humidification capacity at the time of order.

02 - There is no dehumidification function in standard units. If requested, it must be specified.

03- If there is a request other than the nominal capacity, it must be reported.

04 - Heat pump is an option. It must be reported in the order.

05- Features related to the automatic control scenario should be reported if requested.





# Plug Fans



## Kitchen Exhaust Fans

Body Material: st37 black sheet metal
 Propeller St37 Black Sheet Metal
 Engine IE2
 Protection Class: IP55
 Operating Temperature: 90°C
 Direct Coupled Motor
 High Efficiency Low Noise Fans

#### Areas of Use:

It is used for exhausting oily and malodorous air and exhaust fumes from the indoor environment. For example, it is widely used in restaurants, bars, cafes, dining halls, kitchens, etc. It is one of our most preferred products thanks to its high performance and energy efficiency.

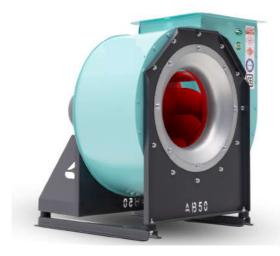
		12	12 12	223	12 - 11 - 1	
Туре	Flow (m³/h)	Pressure (Pa)	En. Power (kw)	Frequency (Hz)	Voltage (V)	Revolution: (rpm)
SZR-HPF-30	2700	200	0,37	50	380	1450
SZR-HPF-35	3500	250	0,55	50	380	1450
SZR-HPF-40	5000	300	0,75	50	380	1450
SZR-HPF-45	6500	400	1,1	50	380	1450
SZR-HPF-50	9000	600	2,2	50	380	1450
SZR-HPF-55	12500	600	4	50	380	1450
SZR-HPF-60	15000	800	5,5	50	380	1450
SZR-HPF-65	18000	1200	7,5	50	380	1450
SZR-HPF-70	22000	1400	11	50	380	1450
SZR-HPF-75	26000	1600	15	50	380	1450
SZR-HPF-80	32000	1800	18,5	50	380	1450

Contact Us for Production in Different Variations for Your Needs









### Areas of Use:

Used for suction of clean or dusty air. For example, it is used as a broadcast in barns, mines, tunnels, steam boilers, silos, etc. It is one of our most preferred products thanks to its high performance and energy efficiency.

- R (RIGHT) RIGHT DIRECTION SNAIL POSTURES R 90 R-270 R-360 L (LEFT) LEFT DIRECTION SNAIL POSTURES L-90 L-270 L-360
- Body Material: st37 sheet metal
  - Propeller: st37 sheet metal
- Engine IE2
- Protection Class: IP55
- Operating Temperature: 90°C
- Direct Coupled Motor
- High Efficiency Low Noise Fans

# Low Pressure Fans Capacity Ratings

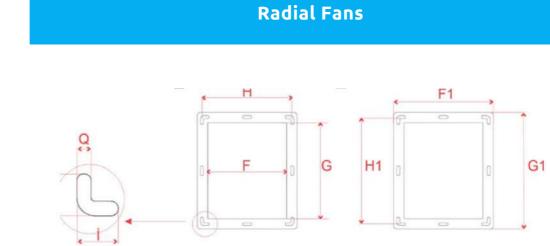
Туре	Flow (m³/h)	Pressure (Pa)	En. Power (kw)	Frequency (Hz)	Voltage (V)	Revolutions (rpm)
SZR-AB-30	2700	200	0,37	50	380	1450
SZR-AB-35	3500	250	0,55	50	380	1450
SZR-AB-40	5000	300	1,1	50	380	1450
SZR-AB-45	7000	300	1,5	50	380	1450
SZR-AB-50	9000	400	2,2	50	380	1450
SZR-AB-55	12500	450	4	50	380	1450
SZR-AB-60	16000	500	5,5	50	380	1450
SZR-AB-65	20000	500	7,5	50	380	1450
SZR-AB-70	25000	600	11	50	380	1450
SZR-AB-75	32000	650	15	50	380	1450
SZR-AB-80	37500	700	18,5	50	380	1450

Contact Us for Production in Different Variations for Your Needs









	Low Pressure Fans Body Dimensions								
Туре	А	A1	В	B1	с	D	E		
SZR-AB-30	558	522	432	488	479	Ø200	200		
SZR-AB-35	607	584	484	534	548	Ø250	250		
SZR-AB-40	668	637	534	587	586	Ø295	270		
SZR-AB-45	712	685	584	639	601	Ø315	285		
SZR-AB-50	756	734	634	684	669	Ø350	300		
SZR-AB-55	806	784	684	734	740	Ø400	350		
SZR-AB-60	855	834	734	783	795	Ø450	370		
SZR-AB-65	1035	1000	892	927	888	Ø600	385		
SZR-AB-70	1198	1053	932	973	970	Ø600	400		
SZR-AB-75	1350	1148	998	1045	1030	Ø650	400		
SZR-AB-80	1398	1158	1042	1092	1050	Ø700	420		

# Low Pressure Fans Blowing Nozzle Dimensions

Tree	-	~		F4	<b>C1</b>	114		ī	0
Туре	F	G	н	F1	G1	H1		L	Q
SZR-AB-30	200	200	236	266	266	236	27,5	27,5	9,5
SZR-AB-35	250	257	286	316	323	293	27,5	27,5	9,5
SZR-AB-40	270	282	306	336	348	318	27,5	27,5	9,5
SZR-AB-45	285	312	321	351	378	348	27,5	27,5	9,5
SZR-AB-50	300	331	336	366	397	367	27,5	27,5	9,5
SZR-AB-55	350	356	386	416	422	392	27,5	27,5	9,5
SZR-AB-60	370	380	406	436	446	416	27,5	27,5	9,5
SZR-AB-65	385	440	426	461	516	481	27,5	27,5	9,5
SZR-AB-70	400	461	441	476	537	502	27,5	27,5	9,5
SZR-AB-75	400	500	446	486	586	546	27,5	27,5	9,5
SZR-AB-80	420	520	466	506	606	566	27,5	27,5	9,5







Body Material: st37 sheet metal
 Propeller: st37 sheet metal
 Engine IE2
 Protection Class: IP55
 Operating Temperature: 90°C
 Direct Coupled Motor
 High Efficiency Low Noise Fans

### Areas of Use:

Used for suction of clean or dusty air. For example, it is used as a broadcast in barns, mines, tunnels, steam boilers, silos, etc. It is one of our most preferred products thanks to its high performance and energy efficiency.

### Medium Pressure Fans Capacity Ratings

Туре	Flow (m³/h)	Pressure (Pa)	En. Power (kw)	Frequency (Hz)	Voltage (V)	Revolution: (rpm)
SZR-OB-25	2500	500	0,75	50	380	2850
SZR-OB-30	3500	800	1,11,1	50	380	2850
SZR-OB-35	5000	1000	1,5	50	380	2850
SZR-OB-37	6000	1200	2,2	50	380	2850
SZR-OB-40-3	8000	1300	3	50	380	2850
SZR-OB-40-4	10000	1350	4	50	380	2850
SZR-OB-45	12000	1400	5,5	50	380	2850
SZR-OB-50	14000	1500	7,5	50	380	2850
SZR-OB-52	17000	1600	11	50	380	2850
SZR-OB-55	20000	1700	15	50	380	2850
SZR-OB-60	24000	2000	18,5	50	380	2850
SZR-OB-62	28000	2100	22	50	380	2850
SZR-OB-65	32000	2200	30	50	380	2850

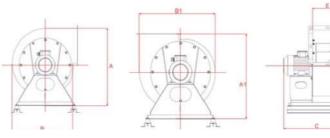
Contact Us for Production in Different Variations for Your Needs

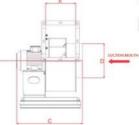












### Medium Pressure Fans Body Dimensions

Туре	А	A1	В	B1	с	D	E
SZR-OB-25	521	516	431	487	438	Ø135	135
SZR-OB-30	576	545	456	503	452	Ø140	140
SZR-OB-35	608	562	478	531	467	Ø145	150
SZR-OB-37	638	582	503	558	492	Ø150	150
SZR-OB-40-3	665	647	526	583	568	Ø350	200
SZR-OB-40-4	665	647	526	583	590	Ø220	200
SZR-OB-45	818	773	546	728	650	Ø250	225
SZR-OB-50	838	783	696	773	725	Ø350	300
SZR-OB-52	5						
SZR-OB-55							
SZR-OB-60	5	c	ontact Us For	Dimensions			
SZR-OB-62	5						
SZR-OB-65	-						

Туре	F	G	н	F1	G1	H1	1	i	Q
SZR-OB-25	135	135	171	201	201	171	27,5	27,5	9,5
SZR-OB-30	140	140	176	206	206	176	27,5	27,5	9,5
SZR-OB-35	150	150	186	216	216	186	27,5	27,5	9,5
SZR-OB-37	150	150	186	216	216	186	27,5	27,5	9,5
SZR-OB-40-3	200	280	236	266	346	316	27,5	27,5	9,5
SZR-OB-40-4	200	280	236	266	346	316	27,5	27,5	9,5
SZR-OB-45	225	330	361	291	396	366	27,5	27,5	9,5
SZR-OB-50	300	350	336	366	416	386	27,5	27,5	9,5

SZR-OB-55

SZR-OB-60

SZR-OB-62

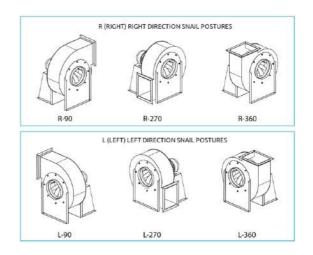
SZR-OB-65

Contact Us For Dimensions









#### Areas of Use:

Used for suction of clean or dusty air. For example, it is used as a broadcast in barns, mines, tunnels, steam boilers, silos, etc. It is one of our most preferred products thanks to its high performance and energy efficiency.

- 🗾 Body Material: st37 sheet metal
- 7 Propeller: st37 sheet metal
- 🗾 Engine IE2
- 7 Protection Class: IP55
- Operating Temperature: 90°C
- Direct Coupled Motor
- High Efficiency Low Noise Fans

### Medium Pressure Fans Capacity Values

Туре	Flow (m³/h)	Pressure (Pa)	En. Power (kw)	Frequency (Hz)	Voltage (V)	Revolutions (rpm)
SZR-YB-30	500	2500	0,55	50	380	2850
SZR-YB-35	600	3100	0,75	50	380	2850
SZR-YB-40	650	4000	1,1	50	380	2850
SZR-YB-45	850	6000	2,2	50	380	2850
SZR-YB-50	1100	7200	3	50	380	2850
SZR-YB-55	1300	8000	4	50	380	2850
SZR-YB-60	1800	9000	5,5	50	380	2850
SZR-YB-65	2000	10000	7,5	50	380	2850
SZR-YB-70	2300	11000	11	50	380	2850
SZR-YB-75	2600	12000	15	50	380	2850

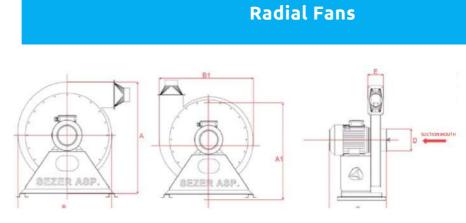
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### High Pressure Fans Body Dimensions

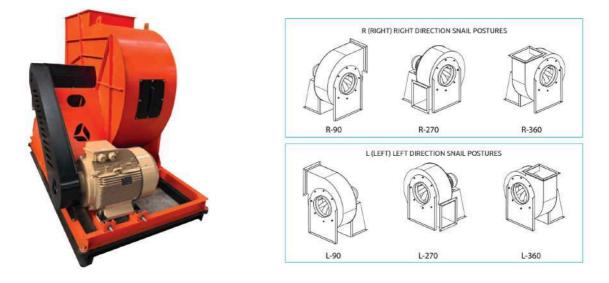
Туре	Α	A1	В	<b>B</b> 1	С	D	E
SZR-YB-30	612	581	498	571	316	Ø140	70
SZR-YB-35	658	599	514	584	327	Ø145	70
SZR-YB-40	700	630	548	609	358	Ø150	70
SZR-YB-45	725	645	601	643	411	Ø155	70
SZR-YB-50	757	672	640	682	439	Ø160	70
SZR-YB-55	827	784	690	737	463	Ø165	70
SZR-YB-60	890	<b>84</b> 3	754	809	520	Ø175	70
SZR-YB-65	940	<b>89</b> 3	804	854	525	Ø190	70
SZR-YB-70							

SZR-YB-75

**Contact Us For Dimensions** 

	High Pressure Fans Blowing Port Dimensions										
Туре	F	G	н	F1	G1	H1	I	i	Q		
SZR-YB-30	200	200	236	266	266	236	27,5	27,5	9,5		
SZR-YB-35	250	257	286	316	323	293	27,5	27,5	9,5		
SZR-YB-40	270	282	306	336	348	318	27,5	27,5	9,5		
SZR-YB-45	285	312	321	351	378	348	27,5	27,5	9,5		
SZR-YB-50	300	331	336	366	397	367	27,5	27,5	9,5		
SZR-YB-55	350	356	386	416	422	392	27,5	27,5	9,5		
SZR-YB-60	370	380	406	438	446	416	27,5	27,5	9,5		
SZR-YB-65	385	440	426	461	516	481	27,5	27,5	9,5		
SZR-YB-70	400	461	441	476	537	502	27,5	27,5	9,5		
SZR-YB-75	400	500	446	486	586	546	27,5	27,5	9,5		
SZR-YB-80	420	520	466	505	606	566	27,5	27,5	9,5		





### Areas of Use:

This series fans are used for suction of dust, smoke granules, fine sawdust and coarse wood shavings and similar materials except fibrous materials. It is used in carpentry shops, mechanical industry, cement factories, ceramic factories, tanneries, foundries, mills, all applications requiring the transportation of dusty air in industry.

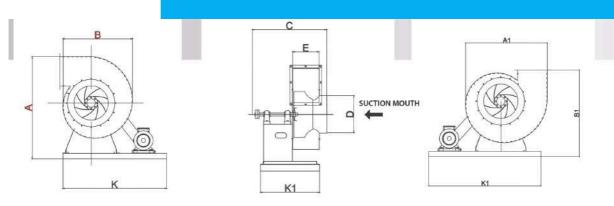
- Belt Pulley FansBody Material: st37
  - sheet metal Propeller: st37 sheet metal Engine IE2
  - Protection Class: IP55
- Operating Temp: 120°C
- Motor with Belt and Pulley Connection High Efficiency Low Noise Fans

Туре	Flow (m³/h)	Pressure (Pa)	En. Power (kw)	Frequency (Hz)	Voltage (V)	Revolutions (rpm)
SZR-KK-30	2000	300	0,55	50	380	1450
SZR-KK-35	3500	400	0,75	50	380	1450
SZR-KK-40	4500	430	1,1	50	380	1450
SZR-KK-45	6500	450	1,5	50	380	1450
SZR-KK-50	8000	500	2,2	50	380	1450
SZR-KK-55	12500	650	4	50	380	1450
SZR-KK-60	16000	800	5,5	50	380	1450
SZR-KK-70	25000	1100	11	50	380	1450
SZR-KK-80	40000	1500	22	50	380	1450
SZR-KK-90	50000	2000	37	50	380	1450
SZR-KK-100	70000	2500	45	50	380	1450

Contact Us for Production in Different Variations for Your Needs







		Belt Pul	ley Fans	Body Dim	nensions		
Model	А	A1	в	B1	с	D	E
SZR-KK-30	653	626	536	511	661	240	300
SZR-KK-35	708	667	564	551	701	250	350
SZR-KK-40	837	778	656	601	751	270	400
SZR-KK-45	933	845	701	616	766	290	450
SZR-KK-50	1030	899	775	676	826	310	500
SZR-KK-55	1150	992	864	715	865	325	560
SZR-KK-60	1288	1087	967	765	915	350	630
SZR-KK-70	1288	1090	967	805	955	395	710
SZR-KK-80	1530	1356	1165	1047	1197	439	800
SZR-KK-90	1850	1640	1340	1210	1360	492	900
SZR-KK-100	1850	1640	1340	1240	1390	548	1000

Model	F	G	н	F1	G1	H1	1	i	Q
SZR-KK-25	135	135	171	201	201	171	27,5	27,5	9,5
SZR-KK-30	140	140	176	206	206	176	27,5	27,5	9,5
SZR-KK-35	150	150	186	216	216	186	27,5	27,5	9,5
SZR-KK-40-3	150	150	186	216	216	186	27,5	27,5	9,5
SZR-KK-40-4	200	280	236	266	346	316	27,5	27,5	9,5
SZR-KK-45	200	280	236	266	346	316	27,5	27,5	9,5
SZR-KK-50	225	330	261	291	396	366	27,5	27,5	9,5
SZR-KK-52	300	350	336	366	416	386	27,5	27,5	9,5
SZR-KK-55	a								
SZR-KK-60					or Dimension				



Selection Report V	ersion Number: 2015052	3			10. 							
	No.:1 Equipment No.:											
	Project Name:Untitled											
	Date:2024-12-20											
	Remarks:											
Input	Parameters					1.10	wooo	-				
Air Volume	4100 m3/h	Pt(Pa)					W280	R				
InputT.P.	1000 Pa	Total Efficiency(%) 28 37							456			
Fan F	Parameters					1	/ /		/			
Туре	LKW280R	1202000						3.00			1	
Air Volume	4100 m3/h	2000-			2	.00/	1	The			-1	
Total Pressure	1000 Pa				1.5		1-	H	1	/		
Static Pressure	881 Pa					1	1	1	1	/		
Dynamic Pressure	119 Pa				1,00/-	-+	T	11	11		8	
Outlet Velocity	14,10 m/s	900-			0,80/5	TE	The	1	IN		.0	
Total Efficiency	41,4 %	700-		0,	60/	1-	IN	1	XX	1/1		
Fan Speed	4362 r/min	100		0,40	1	tend	1	11	XIV	Y.	4400	
Shaft Power	2,75 kw	500-		0.30/-	-1	-#	11	111	$\langle \Lambda \setminus W$			
Motor	Parameters	400-	5 0	20		A	111	IKI		88	3800	
Motor Power/Pole	4/2			-	7	the	11	XIII	WY-		3400	
Motor Speed	2880 r/min	3000	0,15		5	10	11	MM	190		3000	
Elec Supply V/Ph/Hz	380/3/50	2	0,10/=		T	1	V V	KI AV			2800	
Ве	t/Pulley	200-	-		-	11	M	1112-			2600	
Fan Pulley/Bush/Shaft						11	XXI	1285			2400 (uiuu) 2200 uiuu) 2000 peeds 1800 s	
Motor Pulley/Bush/Shaft						V	XI	V				
Belt Model * qty						20	NV	80			2000	
Belt Length/Belt Speed	9	90-			22-22	1	W				1800 g	
Bearing life L10/L50 (h)	h		0.4	0.5 0.6	0.70.8	1	1/2		3 4	5 1	*1k(m3/h)	
and the second se	e Parameters		0,1	02	0.5	1	Vi	6	10		d*10(Pa)	
Total Weight	70,0 kg		0.1	States -	0.3	1	A.		10	ľ		
				2		5	58	10	0		C(m/s)	
Limiting	g Parameters					No	ise					
Max. Fan Speed	4400 r/min	HZ	63	125	250	500	1k	2k	4k	8k	Overal	
Max Absorbed Power	3,00 kw	Lw	100	93	94	98	97	98	89	75	105	
Temperature(Min-Max)	-20~85 jæ	Lw(A)	74	77	85	95	97	99	90	74	102	
Max. Bearing Load	0.0 N	LpA	66	69	77	87	89	91	82	66	94	

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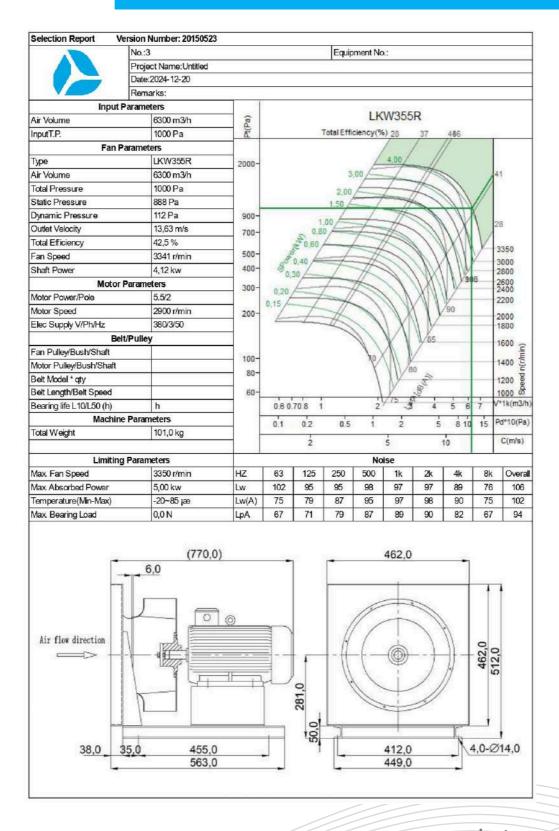


Input Pa Air Volume InputT.P. Fan Par Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power	No.:2 Project Name:Untitled Date:2024-12-20 Remarks: rameters 4700 m3/h 1000 Pa ameters LKW315R 4700 m3/h 1000 Pa 901 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min 380/3/50	2000- 2000- 900- 700- 500- 400- 300-	0,20	0,60 0,40 1,30	2,0 1,50	3,00	W315	R 37	486		41 28 * <b>3850</b>
Input Pa Air Volume InputT.P. Fan Par Type Air Volume Total Pressure Outlet Pressure Dynamic Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Pa Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz	Date:2024-12-20 Remarks: rameters 4700 m3/h 1000 Pa ameters LKW315R 4700 m3/h 1000 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			456		
Input Pa Air Volume InputT.P. Fan Par Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Pa Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz	Remarks: rameters 4700 m3/h 1000 Pa ameters LKW315R 4700 m3/h 1000 Pa 901 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			456		
Input Pa Air Volume InputT.P. Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Pawer/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz	rameters 4700 m3/h 1000 Pa ameters LKW315R 4700 m3/h 1000 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			456		
Air Volume InputT.P. Fan Par Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz	4700 m3/h 1000 Pa ameters LKW315R 4700 m3/h 1000 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			486		
InputT.P. Fan Par Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Pawer/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	1000 Pa           ameters           LKW315R           4700 m3/h           1000 Pa           901 Pa           99 Pa           12,83 m/s           44,0 %           3645 r/min           2,97 kw           arameters           4/2           2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			456		
Fan Par Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	Ammeters           LKW315R           4700 m3/h           1000 Pa           901 Pa           99 Pa           12,83 m/s           44,0 %           3645 r/min           2,97 kw           arameters           4/2           2880 r/min	2000- 900- 700- 500- 400-	0,20	0,60 0,40 1,30	2,0 1,50	3,00			480		
Type Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	LKW315R 4700 m3/h 1000 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arrameters 4/2 2880 r/min	900- 700- 500- 400-	0,20	0, 0,60 0,40	2,0	1		AAA		V	
Air Volume Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	4700 m3/h 1000 Pa 901 Pa 99 Pa 12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	900- 700- 500- 400-	0,20	0, 0,60 0,40	2,0	1		TAN I		V	
Total Pressure Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	1000 Pa           901 Pa           99 Pa           12,83 m/s           44,0 %           3645 r/min           2,97 kw           arameters           4/2           2880 r/min	700- 500- 400-	0,20	0, 0,60 0,40	1,50					V	
Static Pressure Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/l	901 Pa           99 Pa           12,83 m/s           44,0 %           3645 r/min           2,97 kw           arameters           4/2           2880 r/min	700- 500- 400-	0,20	0, 0,60 0,40	1,50					V	
Dynamic Pressure Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	99 Pa           12,83 m/s           44,0 %           3645 r/min           2,97 kw           arameters           4/2           2880 r/min	700- 500- 400-	0,20	0, 0,60 0,40	80	HA A			Ì	L	
Outlet Velocity Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	12,83 m/s 44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	700- 500- 400-	0,20	0, 0,60 0,40	80	HHA				V	
Total Efficiency Fan Speed Shaft Power Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/l	44,0 % 3645 r/min 2,97 kw arameters 4/2 2880 r/min	500- 400-	0,20	(0,60 0,40		HA A				Y	3850
Fan Speed Shaft Power Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/f	3645 r/min 2,97 kw arameters 4/2 2880 r/min	400-	0,20	0,40	7	A			XXV	14	3850
Shaft Power Motor Pa Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	2,97 kw arameters 4/2 2880 r/min	400-	0,20	1,30	×	A	N	W/	11	1/	
Motor Pa Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	arameters 4/2 2880 r/min		0,20	1		T	110	1 1/1		y	3400
Motor Power/Pole Motor Speed Elec Supply V/Ph/Hz Bett/I	4/2 2880 r/min	300-		-	1			1100	AV	906	2000
Motor Speed Elec Supply V/Ph/Hz Bett/I	2880 r/min	- 500		1	15	the	N	INI	VY		3000 2800
Elec Supply V/Ph/Hz Belt/I			0,15		A	12	111	XII	/90	-	2600
Belt/I	380/3/50	200-0	0.10	-1-	T	11	IN	NN			2400
	Dullou	200			-	1/1	XX	IV			2200
	ulley	- 1				11	XXV	1485			2000
		-				XO	1/1/	Y			1000 E
Motor Pulley/Bush/Shaft		90-				Y	1/2	30			1800 (uuuu)u paads
Belt Model * qty Belt Length/Belt Speed		-				1	1Y-	and and a	-	-	1400
Bearing life L10/L50 (h)	h	70-	0.5	0.60.70.8	8 1		Vi .	5	1	5 6	V*1k(m3/h
Machine Parameters		-					12 3		-		1.000
Total Weight	72,0 kg	- 1	0.1	0.2	0.5	1	2	5	6	12 16	Pd*10(Pa)
		- 1		2			5	19	0		C(m/s)
Limiting P	Parameters					No	ise				
Max Fan Speed	3850 r/min	HZ	63	125	250	500	1k	2k	4k	8k	Overal
Max Absorbed Power	3,00 kw	Lw	98	92	93	96	95	95	87	76	103
Temperature(Min-Max)	-20~85 jæ	Lw(A)	72	76	85	93	95	96	88	75	100
Max Bearing Load	0.0 N	LpA	64	68	77	85	87	88	80	67	_
		1.000		1.005.01	7	- 2572 - 1		2,535,6	317.578	1.075	
	(680,0)	)			112-121-1		430,0				
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						15	43	1			
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All How direction	Jy/a				1 (7	1	(A)	)	11	2	5
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34,0 35	445,0		-	1	-		381,0	-	-	4,0-6	Ø14,0
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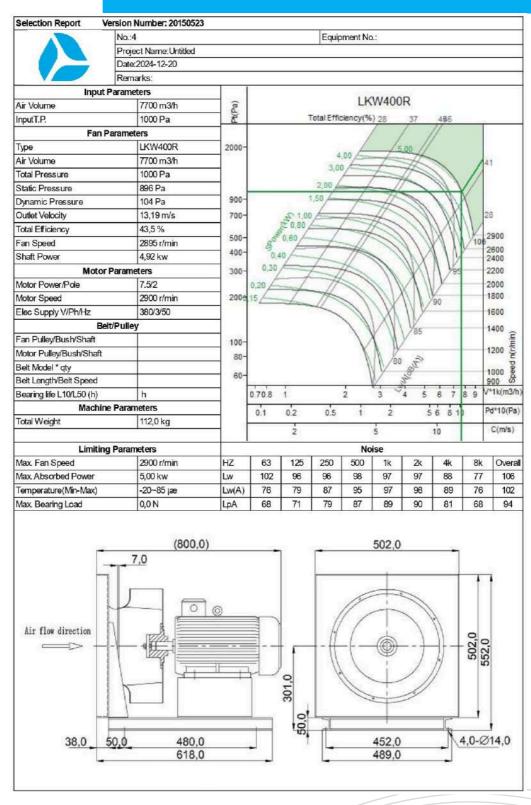


# Сигves



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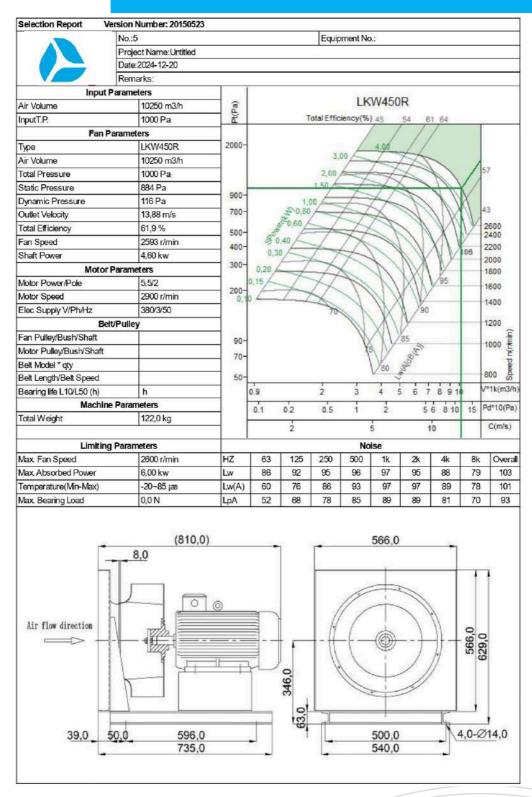




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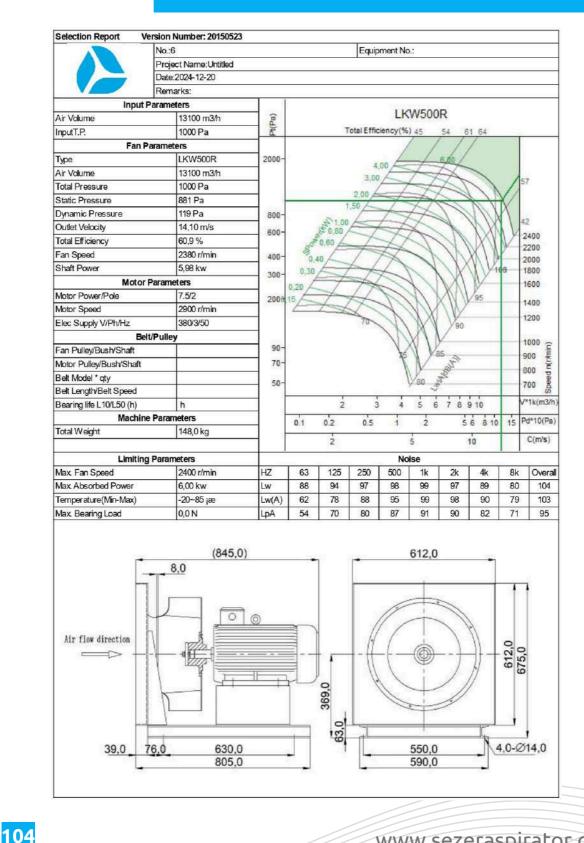
102





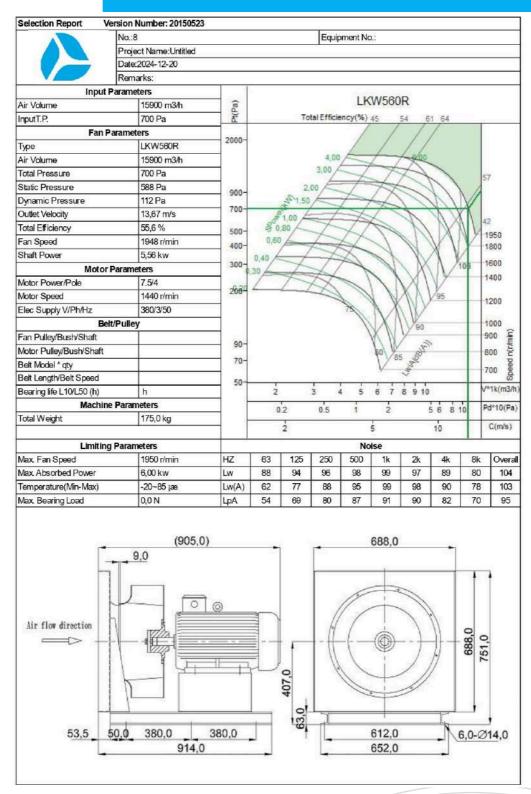
103







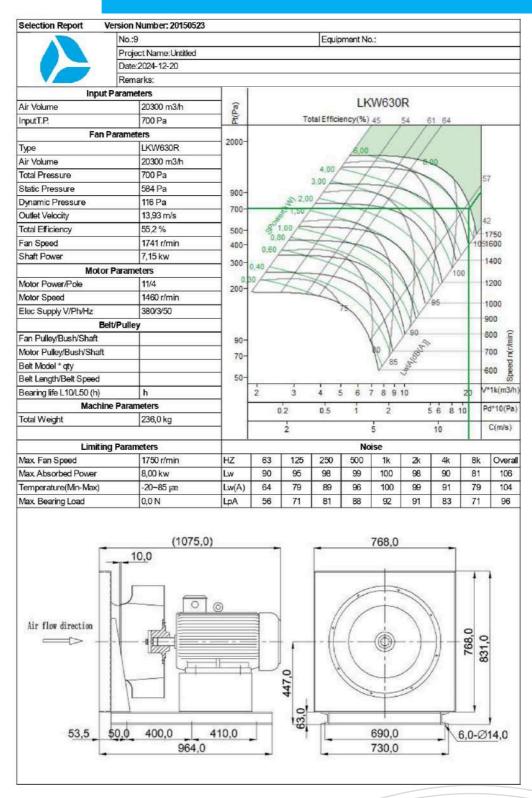
### Curves



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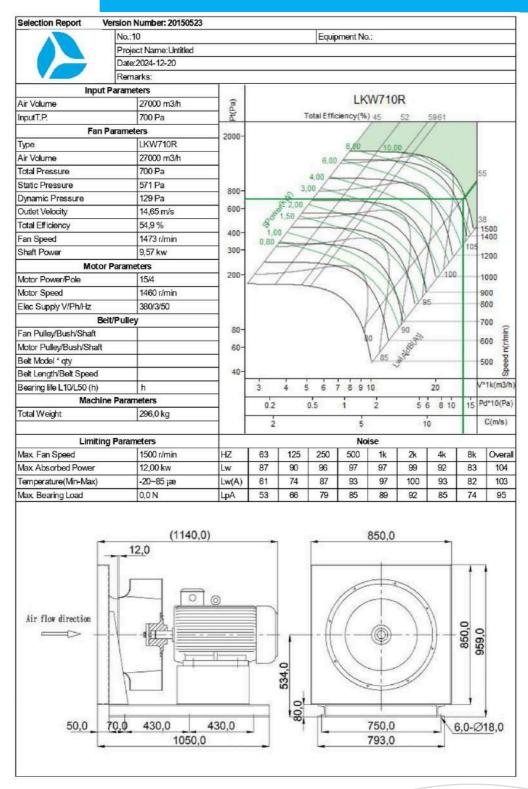
### Curves



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### Curves





# **Country Of Origin**

VERLİ MAI           Belgenin Veriliş Tarihi : 28.12.2021           Belgenin Geçerlilik	У ВОТ ТОВВ
Üretici Ünvanı: SEZER ASPİRATÖR ISITMA VE SOĞU TARIM HAYVANCILIK SANAYİ TİCARET LİMİTED S	TMA SİSTEMLERİ İMALATI MAKİNA İNŞAAT
İşyeri Adresi: Zafer Mah. Çiftlik Sok. No: 7 BUCA/İZMİF	2
Üreticinin Vergi Kimlik No: 7670630210 TC Kimlik No	D: MERSIS No : 0767063021000001
	E-posta: muhasebe@sezeraspirator.com Web Adresi:
Ticaret Sicil No: 1185861	Üye Sicil No: 1720451
Ürün Adı: Hücreli Fan Ürün Kodu (PRODCOM/GTİP): 28.25.20.70.00 / Teknik Özellikleri(Marka Adı, Modeli, Seri Numarası, Cin	
Kapasite RaporununTarih :08.11.2021No : 432Sanayi Sicil BelgesininTarih : 15.04.2016No : 688	61 Geç lilik Süresi :08.11.2023
Yerli Katkı Oranı : % 82,33 Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yükse. Diğer bilgi ve belgeler :	viksek)(Eurostat) : orta-yüksek
İşbu belge Bilim, Sanayi ve Teknoloji Dramba'nın yayımlanan "Yerli Malı Tebliği (SGM 201435)"ne i Belgesinin Düzenlenmesi Uygulama Ersinmas" göre süresi veriliş tarihinden itibaren bir yıl ere ildir. Düzenleyen Oda/Bossa İZMİR TİCARET ODASI	Onaylayan TÜLAY TEKER
T. C. + C. C. + C. C. + Jos + - 	Müdür

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# **Country Of Origin**

WERLİ MALI BELGESİ         Belgenin Veriliş Tarihi : 28.12.2021         Belgenin Veriliş Tarihi : 28.12.2021
Üretici Ünvanı: SEZER ASPİRATÖR ISITMA VE SOĞUTMA SİSTEMLERİ İMALATI MAKİNA İNŞAAT TARIM HAYVANCILIK SANAYİ TİCARET LİMİTED ŞİRKETİ
İşyeri Adresi: Zafer Mah. Çiftlik Sok. No: 7 BUCA/İZMİR
Üreticinin Vergi Kimlik No: 7670630210 TC Kimlik No: MERSİS No : 0767063021000001
Telefon:     232-4598102     E-posta:     muhasebe@sezeraspirator.com       Faks:     Web Adresi:
Ticaret Sicil No: 1185861 Üye Sicil No: 1720451
Ürün Adı: Salyangoz Fan Ürün Kodu (PRODCOM/GTİP): 28.25.20.70.00 / Teknik Özellikleri(Marka Adı, Modeli, Seri Numarası, Cinsi):
Kapasite Raporunun         Tarih :08.11.2021         No : 43261         Georgilik Süresi :08.11.2023           Sanavi Sicil Belgesinin         Tarih : 15.04.2016         No : 688103
Sanayi Sicil Belgesinin Tarih : 15.04.2016 No : 688103 Yerli Katkı Oranı : % 100
Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yükse /vikeek)(Eurostat) : orta-yüksek
Diğer bilgi ve belgeler :
İşbu belge Bilim, Sanayi ve Teknoloji Prrangu'nın 13/09/2014 tarih ve 29118 sayılı Resmi Gazetede yayımlanan "Yerli Malı Tebliği (SGM 20:4/34) "ne istinaden ve TOBB tarafından hazırlanan "Yerli Malı Belgesinin Düzenlenmesi Uygulama Başırmı" göre 28.12.2021 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yıl eçe iidir. Düzenleyen Oda/Basa İZMİR TİCARET ODASI Onaylayan TÜLAY TEKER Müdür
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# **Country Of Origin**

YERLİ MALI BELGESİ
Belgenin Veriliş Tarihi : 28.12.2021         Belgenin Geçerlilik Tarihi : 28.12.2022         Belge No : 2021104788796           Üretici Ünvanı: SEZER ASPİRATÖR ISITMA VE SOĞUTMA SİSTEMLERİ İMALATI MAKİNA İNŞAAT         TARIM HAYVANCILIK SANAYİ TİCARET LİMİTED ŞİRKETİ
İşyeri Adresi: Zafer Mah. Çiftlik Sok. No: 7 BUCA/İZMİR
Ureticinin Vergi Kimlik No: 7670630210 TC Kimlik No: MERSIS No : 0767063021000001
Telefon:     232-4598102     E-posta:     muhasebe@sezeraspirator.com       Faks:     Web Adresi:     4
Ticaret Sicil No: 1185861 Üye Sicil No: 1720451
Ürün Adı: Duman Tahliye Fanı Ürün Kodu (PRODCOM/GTİP): 28.25.20.70.00 / Teknik Özellikleri(Marka Adı, Modeli, Seri Numarası, Cinsi):
Kapasite Raporunun         Tarih :08.11.2021         No         : 43261         Green Inic Süresi :08.11.2023           Sanayi Sicil Belgesinin         Tarih : 15.04.2016         No         : 688103
Yerli Katkı Oranı : % 100
Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yüksek/yı, sek)(Eurostat) : orta-yüksek
Diğer bilgi ve belgeler :
İşbu belge Bilim, Sanayi ve Teknoloji Bakar (gʻnin 13/09/2014 tarih ve 29118 sayılı Resmi Gazetede yayımlanan "Yerli Malı Tebliği (SGM yayı 35)"ne istinaden ve TOBB tarafından hazırlanan "Yerli Mal Belgesinin Düzenlenmesi Uygulama Esaslança" göre 28.12.2021 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yayışındır. Düzenleyen Oda/Borsa İZMİR TİCARET (TAS) TÜLAY TEKER Müdür
The training the training of t

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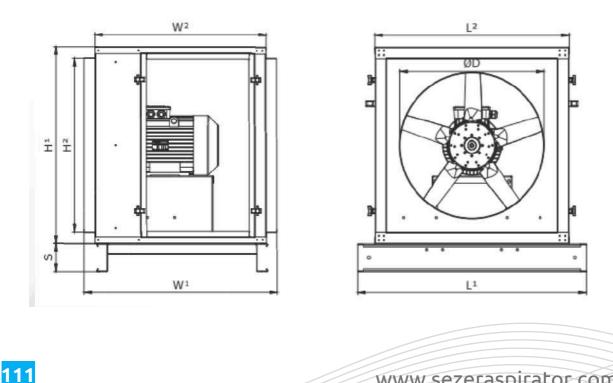
## Cellular Axial Fan (Smoke Exhaust Fan)

#### **SHA Model**



Cellular axial fans are used to clean the air polluted by various factors in buildings and living spaces.

It is used to evacuate polluted air, harmful gas and smoke.







# Cellular Axial Fan (Smoke Exhaust Fan)

### Techniques

MODEL	SHA-H-0400-0,55/2P	SHA-H-0400-0,55/2P SHA-H-0400-0,75/2P		SHA-H-0400-1,5/2P	SHA-H-0400-2,2/2	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	0,55	0,75	1,1	1,5	2,2	
CURRENT (A)	1,27	1,9	2,55	3,45	4,94	
SPEED (rpm)	2780	2800	2800	2835	2840	
AIR FLOW (m <sup>3</sup> /h)	6000	7000	8000	9000	10500	
SOUND PL (dB) 3m	JND PL (dB) 3m 63		64	66	68	
WIRING DIAGRAM	Y	Y	Y	Y	Y	
MODEL	SHA-H-0400-1,1/2P	SHA-H-0400-1,5/2P	SHA-H-0400-2,2/2P	SHA-H-0400-3/2P		
VOLTAGE (V)	400	400	400	400	19 <b>7</b> 0	
FREQUENCY (Hz)	50	50	50	50	-	
POWER (kW)	1,1	1,5	2,2	3		
CURRENT (A)	2,55	3,45	4,94	6,5		
SPEED (rpm)	2800	2835	2840	2850		
AIR FLOW (m <sup>3</sup> /h)	9500	11500	12500	14250	-	
SOUND PL (dB) 3m	62	66	67	67	3 <b>5</b> 2	
WIRING DIAGRAM	Y	Y	Y	Y	-	

MODEL	SHA-H-0500-1,5/2P	SHA-H-0500-2,2/2P	SHA-H-0500-3/2P	SHA-H-0500-4/2P	SHA-H-0400-5,5/2
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	1,5	2,2	3	4	5,5
CURRENT (A)	3,45	4,94	6,5	8,2	11,3
SPEED (rpm)	2835	2840	2850	2850	2870
AIR FLOW (m <sup>3</sup> /h)	11000	13000	15500	17000	20000
SOUND PL (dB) 3m	63	66	69	71	73
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D

MODEL	SHA-H-0400-2,2/2P	SHA-H-0400-3/2P	SHA-H-0400-4/2P	SHA-H-0400-5,5/2P	SHA-H-0400-3/2
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	2,2	3	04	5,5	7,5
CURRENT (A)	4,94	6,5	8,2	11,3	15,5
SPEED (rpm)	2840	2850	2850	2870	2890
AIR FLOW (m <sup>3</sup> /h)	14000	17000	20500	23000	26500
SOUND PL (dB) 3m	65	68	71	73	75
WIRING DIAGRAM	Y	Y	Y	D or Y-D	D or Y-D





# Cellular Axial Fan (Smoke Exhaust Fan)

#### Techniques

MODEL	SHA-H-0630-5,5/2P	SHA-H-0630-7,5/2P	SHA-H-0630-11/2P	SHA-H-0630-15/2P	SHA-H-0630-18,5/2	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	5,5	7,5	11	15	18,5	
CURRENT (A)	11,3	15,4	22,4	28,5	35	
SPEED (rpm)	2870	2890	2935	2940	2940	
AIR FLOW (m <sup>3</sup> /h)	25000	30000	27500	31000	34250	
SOUND PL (dB) 3m	72	76	77	83	85	
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D	
MODEL	SHA-H-0710-1,5/4P	SHA-H-0710-2,2/4P	SHA-H-0710-3/4P	SHA-H-0710-4/4P	SHA-H-0710-5,5/4P	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	1,5	2,2	3	4	5,5	
CURRENT (A)	3,6	5,2	6,8	8,6	11,8	
SPEED (rpm)	1385	1400	1410	1425	1430	
AIR FLOW (m <sup>3</sup> /h)	19000	23000	25000	28000	30000	
SOUND PL (dB) 3m	65	67	69	71	71	
WIRING DIAGRAM	Y	Y	Y	Y	D or Y-D	

MODEL	SHA-H-0800-2,2/4P	SHA-H-0800-3/4P	SHA-H-0800-4/4P	SHA-H-0500-5,5/2P	SHA-H-0400-7,5/4	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	2,2	3	4	15	18,5	
CURRENT (A)	5,2	6,5	22,4	28,5	35	
SPEED (rpm)	1400	1410	2935	2940	2940	
AIR FLOW (m <sup>3</sup> /h)	26000	30500	27500	31000	34250	
SOUND PL (dB) 3m	67	69	77	83	85	
WIRING DIAGRAM	Y	Y	D or Y-D	D or Y-D	D or Y-D	
MODEL	SHA-H-0900-4/4P	SHA-H-0900-5,5/4P	SHA-H-0900-7,5/4P	SHA-H-0400-9/4P	SHA-H-0400-9/4	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	4	5,5	7,5	n	15	
CURRENT (A)	8,6	11,8	18,8	22,6	30,5	
SPEED (rpm)	1425	1430	1430	1455	1460	
AIR FLOW (m3/h)	40000	44000	47500	525000	55000	
CONSTRUCTION SALES	70	71	69	76	76	
SOUND PL (dB) 3m						





# Cellular Axial Fan (Smoke Exhaust Fan)

#### Techniques

MODEL	SHA-H-01000-7,5/2P	SHA-H-010000-11/4P	SHA-H-01000-15/4P	SHA-H-01000-18,5/4P	SHA-H-01000-22/2F
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	n	11	15	18,5
CURRENT (A)	11,3	22,6	22,4	28,5	35
SPEED (rpm)	1430	1455	2935	2940	2940
AIR FLOW (m <sup>3</sup> /h)	56000	58000	27500	31000	34250
SOUND PL (dB) 3m	73	74	77	83	85
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D

SHA-H-01120-15/4P	SHA-H-01120-18,5/4P	SHA-H-01120-22/4P	SHA-H-01120-30/4P	SHA-H-01120-37/4	
400	400	400	400	400	
50	50	50	50	50	
15	18,5	22	30	37	
30,5	38	44	57	70	
1460	1460	1455	1460	1465	
75000	81000	87000	98000	108000	
76	78	79	81	83	
D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D	
	400 50 15 30,5 1460 75000 76	400         400           50         50           15         18,5           30,5         38           1460         1460           75000         81000           76         78	400         400         400           50         50         50           15         18,5         22           30,5         38         44           1460         1460         1455           75000         81000         87000           76         78         79	400         400         400         400           50         50         50           15         18,5         22         30           30,5         38         44         57           1460         1460         1455         1460           75000         81000         87000         98000           76         78         79         81	

MODEL	SHA-H-01250-18,5/4P	SHA-H-01250-22/4P	SHA-H-01250-30/4P	SHA-H-0500-37/2P	SHA-H-0400-45/4	
VOLTAGE (V)	400	400	400	400	400	
FREQUENCY (Hz)	50	50	50	50	50	
POWER (kW)	18,5	22	30	37	45	
CURRENT (A)	38	44	22,4	57	35	
SPEED (rpm)	1460	1455	2935	1465	2940	
AIR FLOW (m <sup>3</sup> /h)	86000	93000	106000	122000	128000	
SOUND PL (dB) 3m	74	79	77	82	82	
WIRING DIAGRAM	D or Y-D	D or Y-D	D or Y-D	D or Y-D	D or Y-D	
Think of A GRAM						







# Cellular Axial Fan (Smoke Exhaust Fan)

#### Performances

MODEL				AIRFLOW (m <sup>3</sup> /h)			
	0 PA	150 PA	300 PA	450 PA	600 PA	750 PA	900 PA
5HA-H-0400-0,55/2P	6000	5250	4000				
5HA-H-0400-0,75/2P	7000	6200	4900	2500			
5HA-H-0400-1,1/2P	8000	7300	5800				
5HA-H-0400-1,5/2P	9000	7800	6400				
5HA-H-0400-2,2/2P	10500	9300	7700				
5HA-H-0450-1,1/2P	9500	8500	6750				
5HA-H-0450-1,5/2P	11500	10200	8600	5600			
5HA-H-0450-2,2/2P	12500	11300	9600	7000			
5HA-H-0450-3/2P	14250	12700	10800				
5HA-H-0500-1,5/2P	11000	10500	8100	6100			
5HA-H-0500-2,2/2P	13000	12000	10200	8200			
5HA-H-0500-3/2P	15500	14200	12500	10600	6800		
5HA-H-0500-4/2P	17000	14900	14000	12000	8300		
5HA-H-0500-5,5/2P	20000	18200	16000	12800	10200		
5HA-H-0560-2,2/2P	14000	12600	10700	8750	5700		
5HA-H-0560-3/2P	17000	15600	14000	11800	8900		
5HA-H-0560-4/2P	20500	19000	17400	15200	12200		
5HA-H-0560-5,5/2P	23000	21400	19400	15300	14600		
5HA-H-0560-7.5/2P	26500	24000	22000	19700	17000		

MODEL			/	AIRFLOW (m <sup>3</sup> /h)			
	0 PA	150 PA	300 PA	450 PA	600 PA	750 PA	900 P/
SHA-H-0630-5,5/2P	25500	24000	21600	19000	15800		
SHA-H-0630-7,5/2P	30000	26000	24400	22800	21200	21200	17500
SHA-H-0630-11/2P	29400	27200	24800	22000	18400	13400	
SHA-H-0630-15/2P	31000	29400	27700	26000	24000	22000	19800
SHA-H-0630-18,5/2P	34250	32600	31000	29000	27000	24400	21700
SHA-H-0710-3/4P	19200	14800	7800				
SHA-H-0710-2,2/4P	23000	17900					
SHA-H-0710-3/4P	25000	20200					
SHA-H-0710-4/4P	28000	24600	19750				
SHA-H-0710-5,5/4P	30000	24000					
SHA-H-0800-2,2/4P	26000	20000					
SHA-H-0800-3/4P	30500	24500	13000				
SHA-H-0800-4/4P	34000	29000	23000				
SHA-H-0800-5,5/4P	38000	32300	20000				
SHA-H-0800-7,5/4P	40000	35000	30000				
5HA-H-0900-4/4P	40000	33000	24500				
SHA-H-0900-5,5/4P	44000	38000	30000				
SHA-H-0900-7,5/4P	47500	41500	32700				
5HA-H-0900-11/4P	52000	48000	42000	30000			
SHA-H-0900-15/4P	55000	50000	45500	35500			



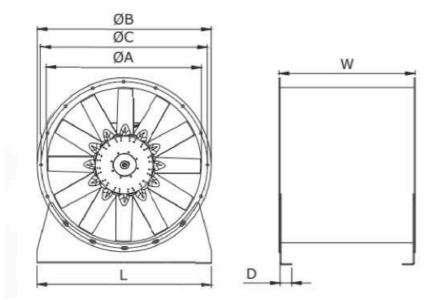


#### SAK Model



Sezer exproof axial duct fan bodies are manufactured from galvanized steel sheet. The flange structure is self-flanged. The blades are durable because they are aluminum. Motors are optionally used as two-way-two-speed fire-resistant. Electrical panel

It is designed according to the features of the product outside the body. The counter flange and suspension apparatus are provided with the product by the manufacturer.









MODEL	A	B	с	w	L	D
SHA-0400	6000	5250	4000	6000	5250	4000
SHA-0450	400	480	450	500	496	50
SHA-0500	450	530	500	500	660	50
SHA-0560	500	600	560	500	600	50
SHA-0630	630	730	690	700	727	50
SHA-0710	710	810	770	700	806	50
SHA-0800	800	900	860	700	903	60
SHA-0900	900	1000	970	800	996	60
SHA-01000	1000	1100	1070	800	1096	60
SHA-01120	1120	1220	1190	900	1216	60

## Techniques

MODEL	-0400-0,75/2P	SHA-0400-1,1/2P	SHA-0400-1,5/2P	SHA-0400-2,2/2F
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	0,55	1,1	1,5	2,2
CURRENT (A)	1,85	2,6	2,55	4,75
SPEED (rpm)	3000	3000	2800	3000
AIR FLOW (m <sup>3</sup> /h)	6,100	7.400	9.000	11.000

MODEL	SHA-0450-1,5/2P	SHA-0450-2,2/2P	SHA-0450-3/2P
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	1,5	2,2	3
CURRENT (A)	3,25	4,75	6,45
SPEED (rpm)	3000	3000	3000
AIR FLOW (m <sup>3</sup> /h)	9,500	13,250	15,000

MODEL	SHA-0500-4/2P	SHA-0500-5,5/2P
VOLTAGE (V)	400	400
FREQUENCY (Hz)	50	50
POWER (kW)	4	5,5
CURRENT (A)	7,5	9,8
SPEED (rpm)	3000	3000
AIR FLOW (m <sup>3</sup> /h)	18.000	21,500







		Tee
MODEL	SHA-H-0560-4/2P	SHA-H-0560-7,5/2P
VOLTAGE [V]	400	400
FREQUENCY (Hz)	50	50
POWER (kW)		7,5
CURRENT (A)	7,5	15,3
SPEED (rpm)	3000	3000
AIR FLOW (m <sup>3</sup> /h)	22.000	28.000

MODEL	SHA-H-0630-4/2P	SHA-H-0630-5,5/2P	SHA-H-0630-7,5/2P	SHA-H-0630-11/2P
VOLTAGE (V)	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	0.4	5,5	7,5	n
CURRENT (A)	7,5	9,8	15,3	21,4
SPEED (rpm)	3000	3000	3000	3000
AIR FLOW (m <sup>3</sup> /h)	20.000	26.000	29.000	33.500

MODEL	SHA-H-0710-2,2/4P	SHA-H-0710-3/4P	SHA-H-0710-4/4F
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	2,2	3	4
CURRENT (A)	4,	7,7	8,5
SPEED (rpm)	1500	1500	1500
AIR FLOW (m³/h)	24.000	26.000	30.000

MODEL	SHA-H-0800-4/4P	SHA-H-0800-5,5/4P	SHA-H-0800-7,5/4
VOLTAGE (V)	400	400	400
FREQUENCY (Hz)	50	50	50
POWER (kW)	4	5,5	7,5
CURRENT (A)	8,5	10,1	15,6
SPEED (rpm)	1500	1500	1500
AIR FLOW (m3/h)	27.500	37.500	42.000

MODEL	SHA-H-0900-5,5/4P	SHA-H-0900-7,5/4P	SHA-H-0900-11/4P	SHA-H-0900-15/4P
VOLTAGE [V]	400	400	400	400
FREQUENCY (Hz)	50	50	50	50
POWER (kW)	5,5	7,5	n	15
CURRENT (A)	10,1	13,9	20,6	28
SPEED (rpm)	1500	1500	1500	1500
AIR FLOW (m3/h)	44.000	43.000	50.000	57.500

MODEL	SHA-H-01000-7,5/4P	SHA-H-01000-11/4P	SHA-H-01000-15/4P	SHA-H-01000-22/4P	SHA-H-01000-30/4P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	7,5	n	15	22	30
CURRENT (A)	13,9	20,6	28	39,9	56,4
SPEED (rpm)	1500	1500	1500	1500	1500
AIR FLOW (m3/h)	56.000	68.000	68.000	80.000	87.500









#### Techniques

MODEL	SHA-01120-11/4P	SHA-01120-15/2P	SHA-01120-18,5/2P	SHA-01120-22/2P	SHA-01120-30/2P
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	n	15	18,5	22	30
CURRENT (A)	20,6	28	34,7	39,9	56,4
SPEED (rpm)	1500	1500	1500	1500	1500
AIR FLOW (m <sup>3</sup> /h)	64000	70000	82000	90000	102000

MODEL	SHA-01250-15/4P	SHA-01250-18,5/4P	SHA-01250-22/4P	SHA-01250-30/4P	SHA-01250-37/4P	SHA-01250-45/4
VOLTAGE (V)	400	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50	50
POWER (kW)	15	18,5	22	30	37	45
CURRENT (A)	28	34,7	39,9	56,4	66	79
SPEED (rpm)	1500	1500	1500	1500	1500	1500
AIR FLOW (m3/h)	75250	86250	96500	110000	122500	130000

#### Performances

MODEL				AIRFLOW (m <sup>3</sup> /h)		
	0 PA	100 PA	200 PA	300 PA	400 PA	500 PA
SHA-0710-2,2/4P	24,000	22,000	17,500	10,000	-	-
SHA-0710-3/4P	26,000	23,500	21,250	17,500	14,000	
SHA-0710-4/4P	30,000	28,000	24,000	21,000	17,500	-
SHA-0800-4/4P	27,500	26,000	24,000	21,500	17,500	16,000
SHA-0800-5,5/4P	37,500	34,250	31,500	27,500	22,500	18,500
SHA-0800-7,5/4P	42,000	38,000	36,000	32,500	27,500	25,000
SHA-0900-5,5/4P	44,000	40,500	36,000	30,500	20,000	15,000
SHA-0900-7,5/4P	43,000	41,000	38,750	35,750	32,000	26,000
SHA-0900-11/4P	50,000	47,500	48,000	42,000	38,000	30,000
SHA-0900-15/4P	57,500	55,000	51,500	48,000	42,000	36,500







#### Performances

MODEL					AIRFLOW (m <sup>3</sup> /h)	li i			
	0 PA	100 PA	200 PA	300 PA	400 PA	500 PA	600 PA	700 PA	800 PA
SHA-0400-0,75/2P	6,100	5,700	5,000	4,250	3,500	2,500	2,000	1,500	1,000
SHA-0400-1,1/2P	7,400	6,800	6,100	5,500	4,500	3,000	2,500	2,000	1,500
SHA-0400-1,5/2P	9,000	8,250	7,500	7,000	6,000	3,750	3,000	2,750	2,250
SHA-0400-2,2/4P	11,000	10,300	9,600	8,500	7,500	6,250	5,500	5,000	4,250
SHA-0450-1,5/4P	9,500	9,000	8,000	7,000	6,000	5,250	4,000	3,500	3,000
SHA-0450-2,2/4P	13,250	12,500	11,750	11,000	10,000	8,000	4,000	3,000	1,500
SHA-0450-3/4P	15,000	14,250	13,500	13,500	11,500	9,500	8,500	7,250	6,500
SHA-0500-4/4P	18,000	17,000	16,000	16,000	12,250	12,000	10,750	8,000	5,000
SHA-0500-5,5/4P	21,500	19,500	18,250	18,250	14,000	14,250	12,500	9,250	8,000
SHA-0560-4/4P	22,000	20,500	19,000	18,000	16,250	15,250	13,000	10,000	8,500
SHA-0560-7,5/4P	28,000	26,000	24,000	22,250	17,000	19,500	18,000	16,500	15,250
SHA-0630-4/4P	20,000	19,000	18,000	17,000	21,000	14,750	13,250	11,500	9,000
SHA-0630-5,5/4P	26,000	24,250	23,000	21,250	16,000	17,500	15,000	7,000	4,000
SHA -0630-7,5/4P	29,000	28,000	27,000	25,000	20,000	20,500	18,000	15,000	5,000
SHA-0630-11/4P	33,500	32,000	30,500	28,500	26,000	25,000	23,000	18,000	16,250

MODEL			2	AIRFLOW (m <sup>3</sup> /h)					
	0 PA	100 PA	200 PA	300 PA	400 PA	500 PA	600 PA	700 PA	800 PA
SHA-1000-7,5/4P	56,000	52,000	47,500	42,500	35,250	20,000	-	÷	-
SHA-01000-11/4P	68,000	65,500	62,500	59,000	55,250	50,000	42,000	36,000	30,000
SHA-01000-15/4P	68,000	65,500	62,500	59,000	64,000	50,000	42,000	35,000	30,000
SHA-01000-22/4P	80,000	75,000	71,500	68,000	72,000	58,000	53,000		
SHA-01000-30/4P	87,500	82,500	80,000	75,000	48,000	65,000	56,000	45,000	-
SHA-01120-11/4P	64,000	60,000	57,000	52,000	55,000	42,500	37,000	29,000	
SHA-01120-15/4P	70,000	65,000	60,000	57,500	67,000	52,000	48,000	43,000	27,500
SHA-01120-18,5/4P	82,000	78,500	75,000	70,000	74,000	62,000	42,000	35,500	27,000
SHA-01120-22/4P	90,000	85,000	82,000	78,000	82,000	68,000	58,000	51,000	42,000
SHA-01120-30/4P	102,000	97,500	91,500	85,000	53,000	78,000	66,250	52,000	2
SHA -01250-15/4P	75,250	70,000	65,000	60,000	66,000	43,000	39,000	29,000	-
SHA-01250-18,5/4P	86,250	82,000	77,750	72,500	74,000	57,000	46,750	42,000	
SHA-01250-22/4P	96,500	91,750	86,750	81,250	93,500	65,000	54,000	40,000	-
SHA-01250-30/4P	110,000	107,000	103,000	99,000	93,000	87,000	69,000	60,000	45,000
SHA-01250-37/4P	122,500	117,500	78,250	106,000	98,000	86,000	66,000	•	-
SHA-01250-45/4P	130,000	125,500	117,500	110.000	102,500	92,500	85.000	75.000	65,000







### Jet Fan



Sezer Jet Fan is designed to evacuate toxic gases and polluted air in many places. It is used to quickly evacuate smoke formed during a fire. Due to the design feature of the Jet Fan, it is used in ducts and vents in areas such as parking lots and shelters in our buildings.

We do not need to use the system. Jet Fan body structure can be easily dismantled, it is easy to intervene in case of failure. Jet

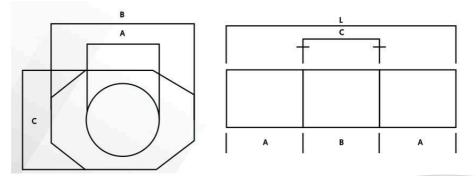
A silencer cabinet is used on both sides of the fan to reduce the noise level.

SJF jet fans, manufactured with axial wing structure, are used in daily ventilation as well as in case of fire as double speed.

They are manufactured with features that can operate. The engines, which have a rotation speed of 1440 rpm in daily use, reach a rotation speed of 2880 rpm in case of fire with the operation of carbon monoxide and smoke sensors and perform air evacuation. Axial jet fans, EN Manufactured in F300 (300°/120 min.) and F400 (400°/120 min.) resistance classes according to 12101-3/Smoke and Heat Control Systems standard.

In order to protect the motor and the device from foreign objects in the motor suction and discharge section of the devices, there are protection wires in the discharge section.

There are integrated flaps for optimum air direction.





## Jet Fan

	A	В	C		A	B	c	L
315	315	506	401	315	445	500	570	1403
555	355	556	461	355	445	500	570	1403
100	400	606	506	400	445	500	570	1403
455	455	621	521	455	445	500	570	1403

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### Techniques

MODEL	JET FAN 400-40	JET FAN 400-50	JET FAN 400-80	JET FAN 400-100	JET FAN TR-400
VOLTAGE (V)	400	400	400	400	400
FREQUENCY (Hz)	50	50	50	50	50
POWER (kW)	0,17/0,75	0,33/1,3	0,6/2,0	0,9/3,6	05,/2,0
CURRENT (A)	0,5/1,7	0,9/2,8	1,2/4,2	2/2,3	1,2/4,2
THRUST (N)	10/40	13/50	20/80	27/106	16/62
SPEED (rpm)	1400/2790	1425/2680	1415/2832	1440/2810	1415/2835
AIR FLOW (m <sup>3</sup> /h)	2394/4700	2700/5400	5220/10440	7560/15120	4630/9260
OUND PRESSURE LEVEL (db)3M	64000	64000	64000	64000	64000

Performances

MODEL	A0	В	c	D	E	F	G
JET FAN 400/40	500	450	750	350	1850	298	400
JET FAN 400/50	500	450	750	350	1850	298	400
JET FAN 400/80	500	450	750	350	1850	298	400
IET FAN <b>400/1</b> 00	500	450	750	350	1850	298	400
JET FAN TR-4	500	450	750	350	1850	298	400





## Duct Type Fan for Cylindrical Ducts

SKTS Model



SKTS series duct type radial fans are ideal elements for ventilation of areas where people are densely populated. Due to their design and construction principles, they are mounted directly to the duct and do not require any machine room and do not occupy any space on the floor.

You can adjust the fan speed and thus the air flow rate by means of the manually controlled speed selector switch provided as an accessory with the SKTS series fans. It is possible to adjust steplessly between minimum and maximum positions.

SKTS series fans can be used for ventilation and aspiration. If desired, an electric heater can be installed on the fan blowing side, Accessories such as silencers can be installed.



Speed adjustment switch

SKTS series duct type fans use radial impellers with "A" energy class according to European Union standards. The cabin is manufactured from aluminum sheets of sufficient thickness by plastering from special molds. The cabin, which consists of two parts, allows the fan to be easily removed when necessary and ensures the cleaning of the cabin interior.

SKTS series fans and speed adjustment switches have "CE" certification.

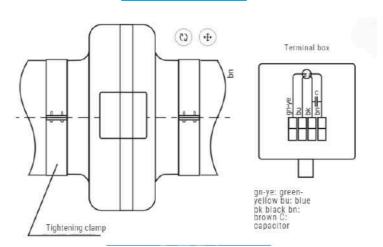




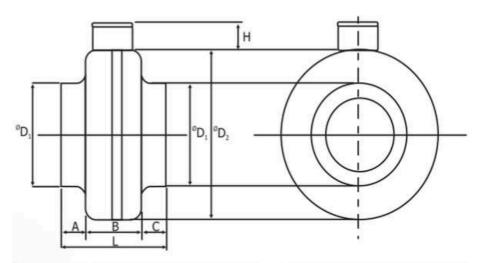


## Duct Type Fan for Cylindrical Ducts

Mounting Style



**Fan Dimensions** 



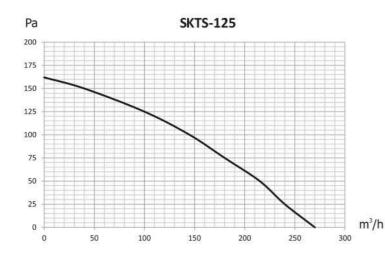
MODEL	1	DIMENSIONS										
MODEL	L	Н	ØD1	ØD2	А	В	С					
SKTS-125	208	47	120	250	50	110	50					
SKTS-160	209	47	155	280	45	110	45					
SKTS-200	215	47	195	320	50	130	50					
SKTS-250	242	47	246	350	50	110	50					
SKTS-315	270	47	310	405	45	145	45					





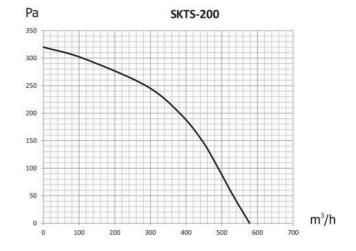
# Duct Type Fan for Cylindrical Ducts

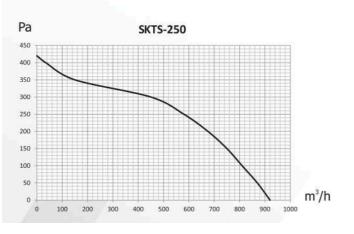
Curves



5011-	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
50Hz	V	А	W	d/dak	dB
1	230	0,13	26	2600	54

FOUL	U	I	P <sub>1</sub>	n	L <sub>wa</sub>	
50Hz	V	А	W	min <sub>1</sub>	dB	(Pa)
1	230	0,3	65	2550	63	





125

50Hz	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
SUNZ	٧	А	W	min <sub>1</sub>	dB
1	230	0,52	100	2700	72

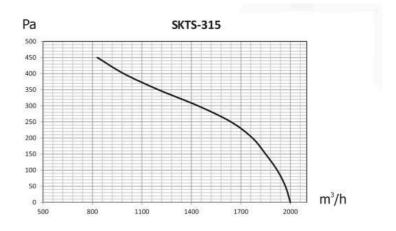


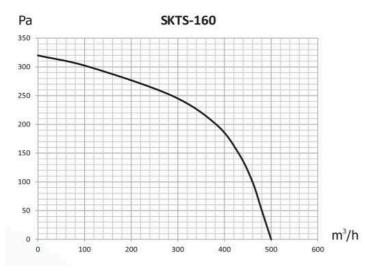


# Duct Type Fan for Cylindrical Ducts

Сигves

50Hz	U	I	P <sub>1</sub>	n	L <sub>wa</sub>
	V	А	W	min <sub>1</sub>	dB
1	230	0,4	220	2500	75





	U	I	P <sub>1</sub>	n	L <sub>WA</sub>
50Hz	V	А	W	min <sub>1</sub>	dB
1	230	0,22	47	2720	60





## **Duct Type Fan for Rectangular Ducts**

SKTD "Models"



SKTD series duct type radial fans are ideal elements for ventilation of areas where people are densely populated. Due to their design and construction principles, they are mounted directly to the duct and do not require any machine room and do not occupy any space on the floor.

You can adjust the fan speed and thus the air flow rate by means of the manually controlled speed selector switch provided as an accessory with the SKTD series fans.

It is possible to adjust steplessly between minimum and maximum positions. SKTD series fans can be used for ventilation and aspiration. If desired, accessories such as electric heaters and silencers can be installed on the fan blowing side.



Speed adjustment switch

SKTD series duct type fans use "A" energy class radial impellers according to European Union standards. The cabin is manufactured from aluminum sheets of sufficient thickness by plastering from special molds. The cabin, which consists of two parts, allows the fan to be easily

It allows easy disassembly and cleaning of the cabin interior. SKTD series fans and speed adjustment switches have "CE" certification.



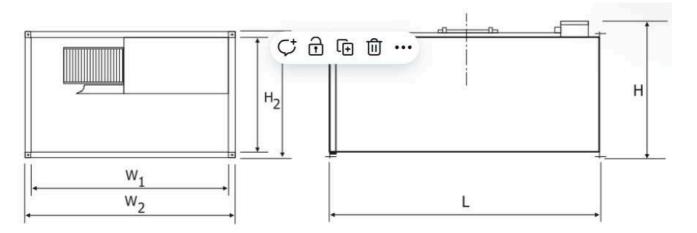
127





## Duct Type Fan for Rectangular Ducts

### Fan Dimensions



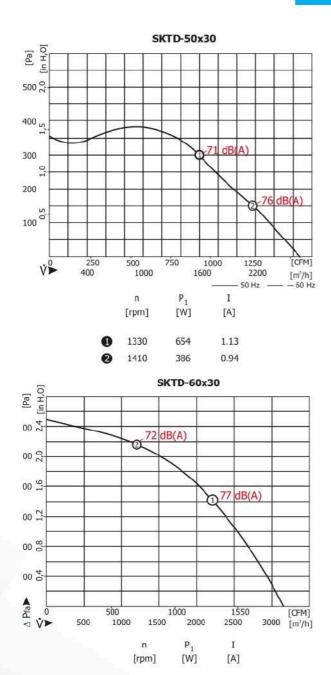
MODEL	DIMENSIONS							
MODEL	H <sub>1</sub>	H <sub>2</sub>	Н	W <sub>1</sub>	W <sub>2</sub>	L		
SKTD-50x30	295	350	370	498	550	420		
SKTD-60x30	295	350	370	598	650	465		
SKTD-60x35	345	400	420	598	650	465		
SKTD-70x40	395	450	470	698	755	568		





## **Duct Type Fan for Rectangular Ducts**

Curves



0.87

0.51

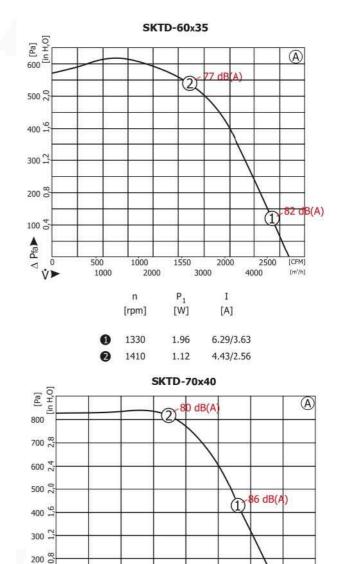
1390

1440

2

3.79/2.19

3.29/1.90



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2000

4000

 $P_1$ 

[W]

3.20

1.89

3000

3000

I

[A]

10.58/6.11

7.52/4.34

5000

4000

6000

[CFM]

7000 [m<sup>3</sup>/h]

100 0

Õ

V>

1000

2000

n

[rpm]

1370

1430

1000

∆ Pfa▶

129







SRF roof aspirators are ideal elements for exhaust ventilation of spaces. Due to their design and construction principles, they are directly Since they are mounted on the roof, they do not require any machine room and do not occupy any space on the ground.

The fan speed and thus the airflow are controlled by means of a manually controlled speed selector switch supplied as an accessory with the series roof aspirators. It is possible to adjust the flow rate steplessly between minimum and maximum positions.



Speed adjustment switch

SRF series duct type fans use "A" energy class self-motorized radial impellers according to European Union standards.

is manufactured from aluminum sheets of sufficient thickness by plastering from special molds. The cabin, which consists of two parts, is required

It allows the fan to be easily removed and the cabin interior to be cleaned at times.

SRF series roof aspirators and speed adjustment switch have "CE" certification.



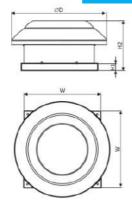






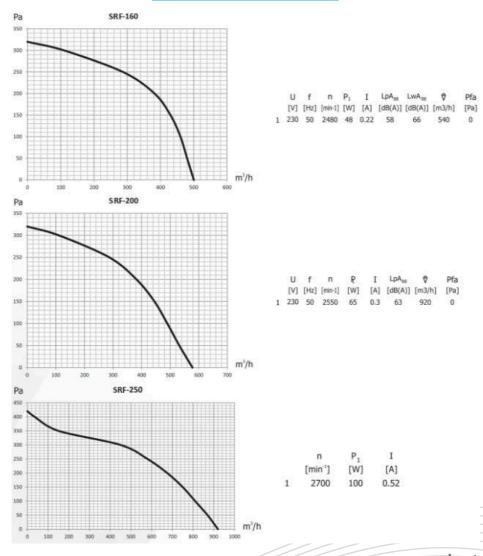
# **Roof Aspirators**

#### **Roof Fan Dimensions**



MODEL	DIMENSIONS					
MODEL	W	Hı	H2	ØD		
SRF-160	320	30	240	390		
SRF-200	350	30	245	440		
SRF-250	350	30	250	440		
SRF-315	410	30	250	530		
SRF-355	440	30	300	680		
SRF-400	480	30	310	680		

Curves

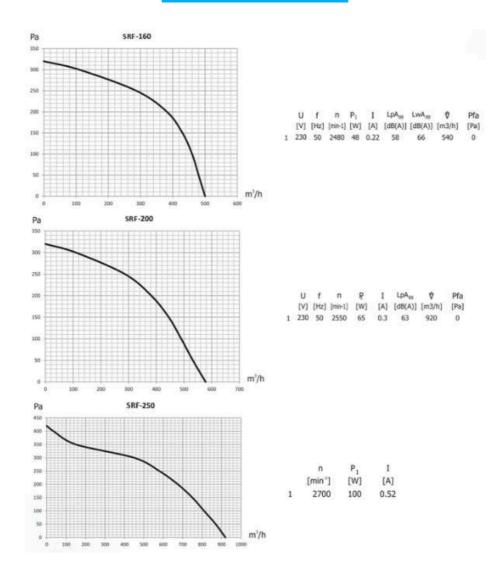






# **Roof Aspirators**

Сигves





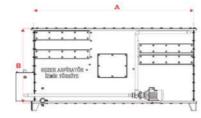
## Water Filers

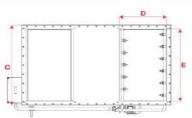
- Body Material: st37 black sheet metal
- Operating Temperature: 180°C
- Activated carbon odor trap filter
- G2 Metal grease and dust collector filter
- 🗾 Water spray nozzles

# Areas of Use:

Aqueous filter is a ventilation system that should be used by businesses such as restaurants and bars that do not have chemical content but emit bad and unwanted odors. Aqueous filtration is essential to prevent the spread of bad odors in places with a high density of people such as shopping malls and for a healthy air.

Water Filter Body Dimensions						
Туре	Flow (m³/h)	А	В	с	D	E
SZR-SF-2	2000	1200	600	600	200	550
SZR-SF-3	3000	1400	700	700	250	650
SZR-SF-4	4000	1400	700	750	350	700
SZR-SF-5	5000	1500	750	750	400	700
SZR-SF-6	6000	1600	750	800	450	750
SZR-SF-7	7000	1600	800	800	450	750
SZR-SF-8	8000	1800	900	900	500	850
SZR-SF-9	9000	2000	900	900	600	850
SZR-SF-10	10000	2000	900	1000	600	950
SZR-SF-12	12000	2000	1000	1200	650	1150
SZR-SF-15	15000	2200	1100	1250	650	1200
SZR-SF-17	17000	2400	1250	1250	700	1200
SZR-SF-20	20000	2500	1250	125	800	1200
SZR-SF-25	25000	3000	1400	1400	900	1350
SZR-SF-30	30000	3000	1500	1500	950	1450













#### VCD Model



VCD model air dampers are used to cut or adjust air flow in rectangular and square section ducts. VCD Dampers are made with reverse-direction moving wings as standard construction. The wings are made of 6033 quality special extruded aluminum.

The frame is made of galvanized sheet metal. There are two options for wing width: 100 mm and 150 mm.

The wing model is also in the form of a double-thickness aerodynamic profile. In dampers with a wing width of 100 mm, gears made of PVC are used in movement.

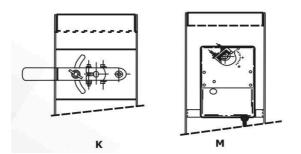
and those with a wing width of 150 mm are supplied with a special connection mechanism made of galvanized sheet metal. All dampers are available upon request.

servomotor base, servomotor or locking arm depending on servomotor base, servomotor or locking arm.

They are manufactured with a fixed arm. Up to 1200 mm width and height, they are manufactured in one piece, larger sizes in two or more pieces.

they are made.

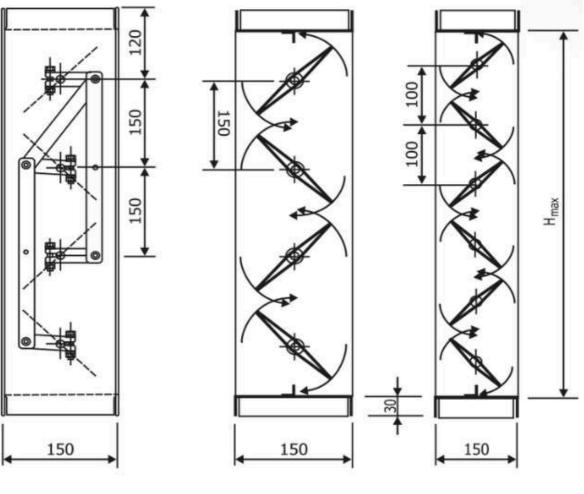
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#### VCD Model



VCD150 Wing width 150mm mechanism of action

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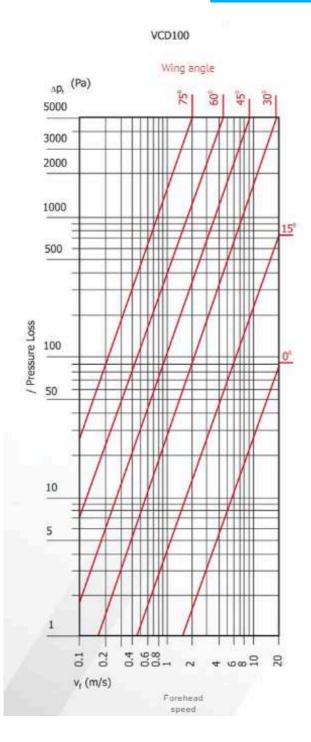
VCD150 Wing width 150mm dimensions VCD100 Wing width 150mm dimensions

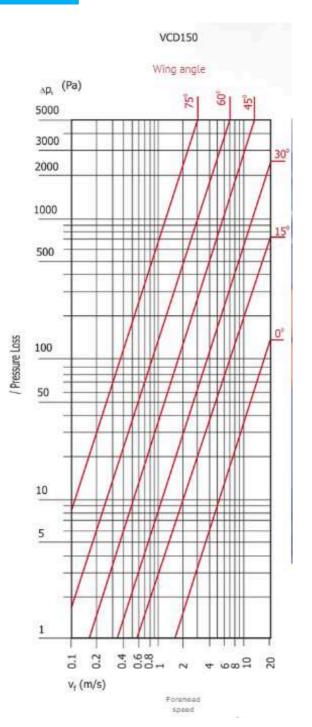
Note: Servomotor can be supplied upon request. Please state the motor type.





**Election Charts** 





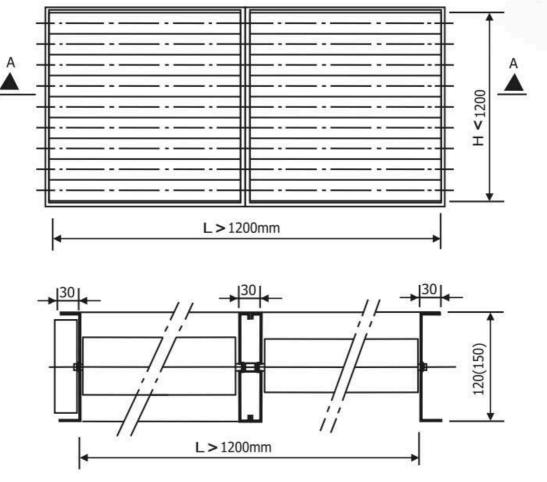
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#### Multi-Purpose Dampers



Kocit AA







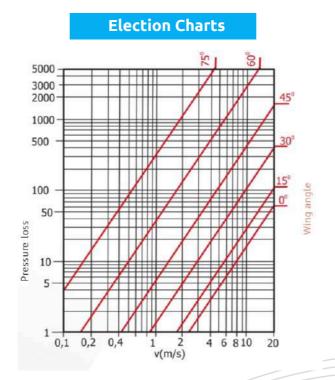
### **Circular Section Flow Regulating Dampers**

#### VCY Model



VCY model air dampers are used to cut or adjust air flow in circular cross-section ducts. The wings and bodies of VCY model dampers are made of galvanized sheet metal. Standard ducts are single-thick and can be made with double-thick neoprene assembly upon customer request. However, this must be specified in the order. Movement wing mechanism-

They are made with metal or plastic handles and locking mechanism or motor mounting base. Servomotor mounting is also available upon customer request. Standard diameters are 100 mm to 450 mm, larger diameters can be specially produced.

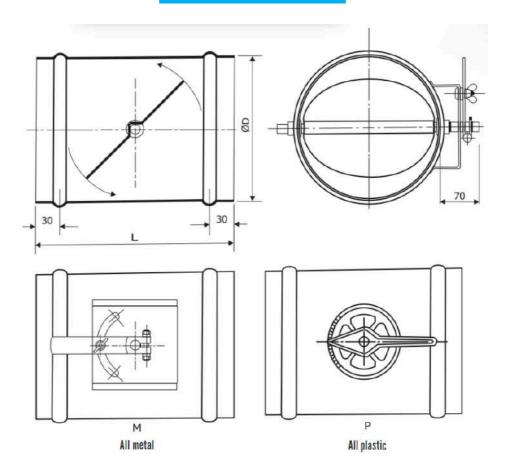






## Circular Section Flow Regulating Dampers

Dimensions



VCYM					
	Dimensions				
MODEL	L(mm)	ØD(mm)			
100	150	98			
125	175	123			
150	200	148			
160	210	158			
200	250	198			
225	275	223			
250	300	248			
280	300	278			
315	350	313			
355	400	354			
400	400	398			
450	400	448			

VCYP					
	Dimensions				
MODEL	L(mm)	ØD(mm)			
100	150	98			
125	175	123			
150	200	148			
160	210	158			
200	250	198			
225	275	223			
250	300	248			
280	300	278			
315	350	313			
355	400	354			
400	400	398			
450	400	448			







## **Circular Section Flow Regulating Dampers**

Single cable control Dual wire control ~ 24 V-+ 24 V-24 V-24 V----230 V~ 1 ~ N L1 2 M 24 NM 24 LM 230 Single cable control Dual wire control N L1 AC 230V ~ AC 24V + DC 24V ~ AC 24V + DC 24V 1 1 2 AM 230 1 AM 24 AM 24 ÷ ÷ \_ + + Single cable control Dual wire control ~ 24 V-+ 24 V--~ 24 V-+ 24 V----230 V~ 1 Ŧ N L1 1 2 3 2 C t C NM 24 NM 24 NM 230 ð Handle orde 80.1 L

**Servomotor Connections** 





# **Fire Dampers**

#### SFD Model



Sezer SFD model fire dampers limit the fire area in ventilation and air conditioning systems and prevent it from spreading to the surroundings. Automatic closing in case of fire is provided by a metal fuse melting at 72°C or special fire dampers. Two types of dampers are used, with or without a temperature sensing element. Galvanized sheet metal is used in the construction of the body and wings, and the body and wing are insulated with rock wool. In models with melting metal, a microswitch can be installed upon request to give a signal at the time of closing. Fire dampers can also be manufactured with servo motors upon request.



SFD-1

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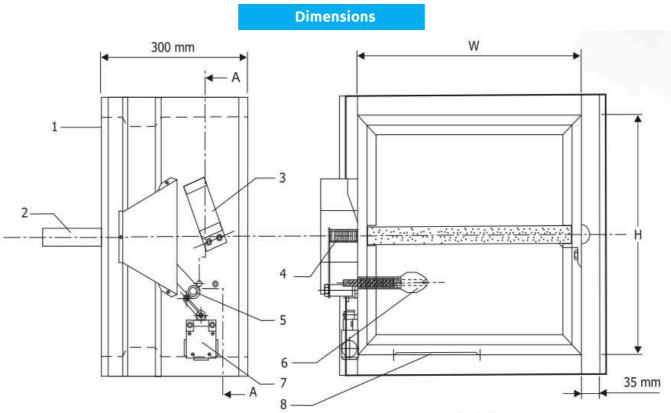
SFD-2

SFD-3





# **Fire Dampers**



**Definition of Parts** 

1-] Case (1.50 mm galvanized sheet) 2-] Wing (30 mm rock wool insulated) 3-] Leaf spring 4-] Spiral spring 5-] Handle 6-] Fuse 7-] Microswitch 8-] Control cover

D (mm)	L (mm)	t (mm)	
150	250	25	
200	250	25	
250	300	25	
300	350	25	
350	400	25	
400	450	25	
500	550	35	
600	650	35	
700	750	35	
800	850	35	
900	950	40	
1000	1050	40	





f - Resistance Factor

Aeff [m²] - Effective Alan

# **Fire Dampers**

	500         600         7           0,044         0,053         0           0,85         0,80         0           0,070         0,084         0	<b>700 800</b> 0,063 0,073	900		1100	1200	1000	. 400	
	0,053 0,80 0,084	C.	and the second se	1000			TOUC	1400	1500
	0,80 0,084		0,082	0,092	0,101	0,111	0,121	0,130	0,140
	0,084	0,80 0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
		0,099 0,114	0,128	0,143	0,157	0,172	0,187	0,201	0,216
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0,85 0,80 0	0,75 0,75	0,75	0,75	0,75	0,75	0,75	0,75	0,75
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	0,118 0,142 0	0,167 0,191	0,216	0,241	0,265	0,290	0,314	0,339	0,364
400 Aeff 0,058 0,096 f 1,30 1,10 500 Aeff 0,075 0,124 f 1,40 1,20 600 Aeff 0,093 0,152 f 1,60 1,40	0,90 0,90 0	0,85 0,82	0,80	0,80	0,80	0,80	0,80	0,80	0,80
f         1,30         1,10           500         Aeff         0,075         0,124           f         1,40         1,20           600         Aeff         0,093         0,152           f         1,603         0,152         1,40	0,165 0,200 0	0,235 0,269	0,304	0,338	0,373	0,408	0,442	0,477	0,511
500         Aeff         0,075         0,124           f         1,40         1,20           600         Aeff         0,093         0,152           f         1,60         1,40	0,95 0,92 0	0,90 0,85	0,85	0,85	0,85	0,85	0,80	0,80	0,80
1,40 1,20 0,093 0,152 1,60 1,40	0,213 0,258 0	0,302 0,347	0,392	0,436	0,481	0,525	0,570	0,615	0,659
0,093 0,152 1,60 1,40	1,00 0,95 0	0,92 0,90	06'0	0,85	0,85	0,80	0,80	0,80	0,80
1,60 1,40	0,261 0,316 0	0,370 0,425	0,479	0,534	0,589	0,643	0,698	0,752	0,807
	1,10 1,00 0	0,95 0,95	0,95	0,90	06'0	0,85	0,85	0,80	0,80
<b>700 Aeff</b> 0,111 0,180 0,244	0,309 0,373 0	0,438 0,503	0,567	0,632	6,96	0,761	0,826	0,890	0,955
<b>f</b> 1,70 1,45 1,30	1,20 1,10 1	1,00 1,00	0,95	06'0	06'0	0,85	0,85	0,85	0,85
800 Aeff 1,129 0,207 0,282	0,357 0,431 0	0,506 0,580	0,655	0,730	0,804	0,879	0,953	1,028	1,103
<b>f</b> 1,80 1,60 1,40	1,30 1,20 1	1,10 1,10	1,00	1,00	0,95	06'0	06'0	06'0	0,85

**Rectangular Section Fire Dampers Effective Areas** 

143

Z

and a





**Circular Section Fire Dampers Effective Areas** 

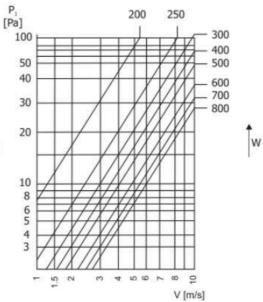
Ø D (mm)	150	200	250	300	350	400
Aeff [m <sup>2</sup> ]	0,012	0,024	0,040	0,059	0,083	0,11
Ø D (mm)	500	600	700	800	900	1000
Aeff [m <sup>2</sup> ]	0,178	0,260	0,359	0,473	0,602	0,748



PI= Pressure loss in the diagram [Pa]

f= Pressure correction factor

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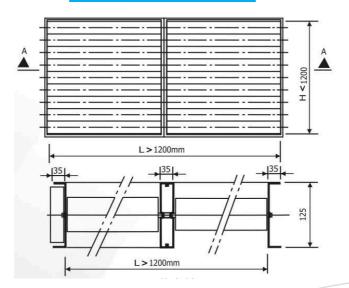
### Rectangular Section Leak-Proof Flow Regulator Damper

#### LCD Model



LCD model air dampers are used to cut or adjust air flow on rectangular and square section wings. LCD dampers are manufactured with wings that move in the opposite direction as standard construction. However, upon customer request, they can also be manufactured with parallel movement. Wings and casing are made of 6033 quality special extruded aluminum profile. Wing width is 100 mm. There is a special rubber seal at one end of the double-thickness blades to ensure sealing. The blades are mounted on the side walls of the case with zero tolerance. In reverse-direction blade movement dampers, movement is done with PVC gears, parallel blade movement The dampers are made of PVC and the connection mechanism made of galvanized sheet metal. All dampers are optionally manufactured with servomotor base, servomotor or locking arm. 1200 mm width and they are made in one piece up to the highest height, and in two or more pieces for larger sizes.

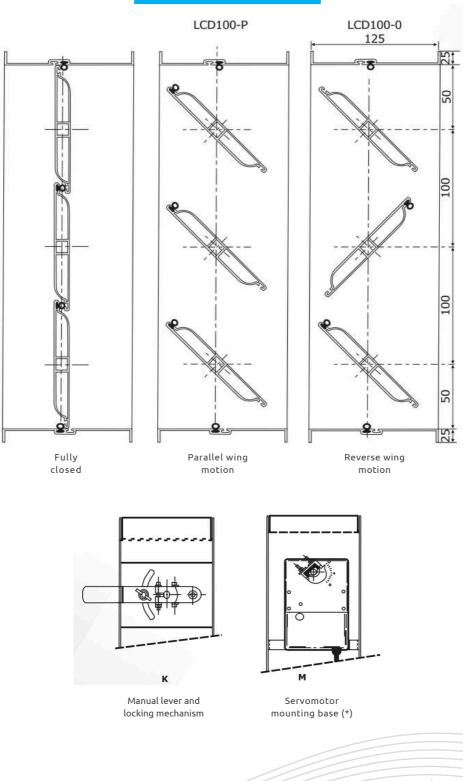
#### Multi-Piece Dampers







# Rectangular Section Leak-Proof Flow Regulator Damper



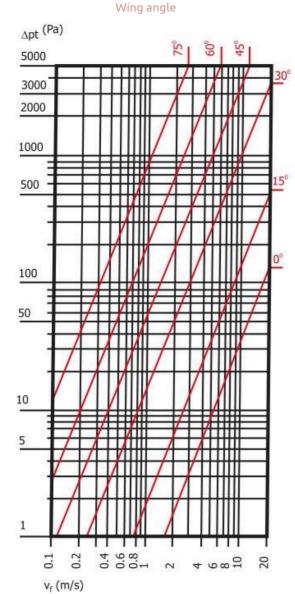
Dimensions

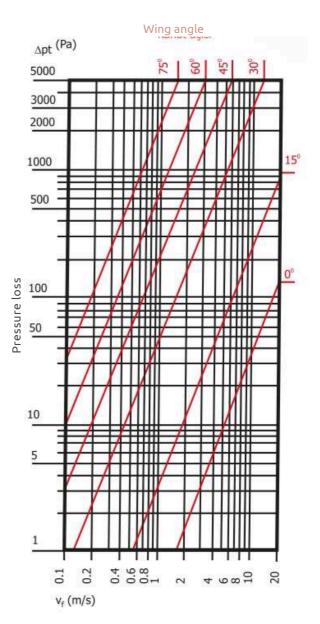




## Rectangular Section Leak-Proof Flow Regulator Damper

Dimensions





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Pressure loss

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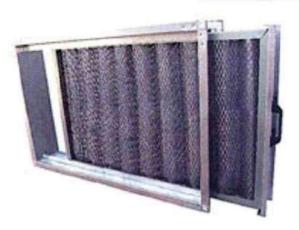




## **Channel Type Filters**

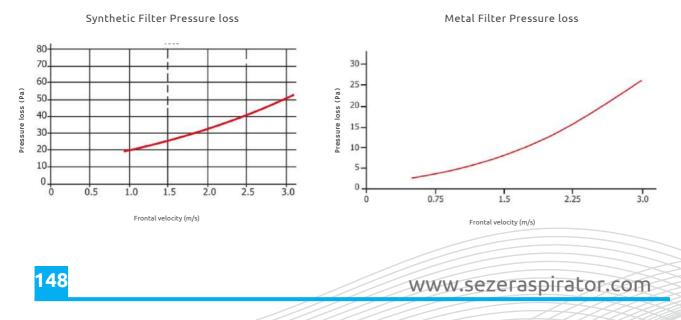
STF Model





STF model channel type filters are manufactured in a manner that they can be mounted on the channel. The body construction is made of galvanized sheet metal of appropriate thickness. There are "Mez" flanges at both ends that can easily be mounted on the channel. Filters are manufactured as synthetic fiber zigzag filters or metal zigzag filters. Synthetic filters are filtered using AAF Amerglass M57-13 or equivalents, which are of G2 quality according to EN79. As metal filters, multi-layer galvanized fly wire of G2 quality according to EN79 is made in zigzag format and both sides are reinforced with diamond wire. Filter thicknesses are 48 mm as standard. All filters are placed in a galvanized frame and placed on skids for easy removal and installation.

Synthetic	592 x 592	592 x 287	500 x 500	500 x 250
Metal	592 x 592	592 x 287	500 x 500	500 x 250







### Variable Air Flow Units

### VAV Model



VAV air conditioning and ventilation systems are the most sensitive and economical solutions of modern air conditioning technologies. In these systems, the room temperature is provided by proportionally controlling the amount of air supplied and exhausted instead of the temperature of the supplied air. In this way, it provides economy in both heat consumption and air flow rate and lower operating costs. VAV Units are calibrated in the factory or on site before shipment. This ensures that maximum and minimum air flow rates are precisely balanced. VAV systems are suitable for high speed and high pressure ventilation systems. As a result, less space is allocated to ventilation and air conditioning systems and a decrease in construction costs is achieved. SDH-K units are designed and manufactured to meet the requirements of VAV [Variable Air Flow] systems. SDH-K units are suitable for heating and cooling with single-channel VAV applications and additionally for CAV [Constant Air Flow] systems under variable pressure.

Examples of this are HEPA filtered applications that require constant air flow under variable pressure. SDH-Units have air velocity measuring sensor elements in accordance with ASHARE documentation. These sensors measure total pressure and static pressure and the air flow is determined electronically from their difference. The units are equipped with double-thick and single-winged leak-proof flow control dampers. The neoprene seal on the frame ensures tightness at the moment of complete closure. The boxes are insulated with 19 mm foamed rubber. Thanks to this insulation, the sound level is reduced, the heat loss of the device is minimized and surface condensation is also prevented. This box allows the coupling of electric or water heating coils, silencers and plenum cells with one to four outlets to the VAV unit. SDH-K units are produced in two main types. These models are the SDH-KS supply model and the SDH-KE exhaust or return air model.





### Variable Air Flow Units

#### Capacity

Nominal flow rates of SDH-K units are calibrated at the factory and these flow rates are adjusted to 12 m/s air inlet speed and flow rate from the main controller.

It corresponds to the incoming 10 VDC control signal. It is not recommended to use these units at entry speeds above 12 m/s.

Minimum air flow rate is related to the sensitivity of the pitot tube and electronic measuring unit. The precise measurement capabilities of these measuring devices can go down to 2.3 Pa differential pressure. This corresponds to an air entry speed of approximately 2 m/s. Likewise, minimum speed applications below this speed are also recommended. The minimum volume flow rate is factory calibrated and corresponds to the 2 VDC control signal input. Therefore, in places where BMS or DDC control systems are used, it is possible to adjust the input control signal to different flow rates by limiting it to different values between 2 and 10 VDC. Upon request, devices can be calibrated at the factory for flow rates other than those given below, provided that they remain between the following values. In this case, the 10 VDC setting will equal the customer's Vmax demand, the customer's Vmin demand will also evolve to 2 VDC.

DEVICE			Air Inlet	Velocity (m/s	sec)	
TYPE	2	4	6	8	10	12
SDH-K 100	53	106	160	213	266	319
SDH-K 125	84	168	253	337	421	505
SDH-K 160	139	279	418	558	697	836
SDH-K 200	219	439	658	878	1097	1317
SDH-K 250	345	690	1035	1380	1725	2070
SDH-K 315	550	1100	1650	2200	2750	3303
SDH-K 355	700	1400	2100	2800	3500	4200
SDH-K 400	891	1783	2674	3565	4456	5350
SDH-K 500	1393	2786	4179	5572	6965	8360
SDH-K 560	1748	3495	5243	6990	8738	10486

### Nominal Capacity (m<sup>3</sup>/H]

SDH-K model variable air flow terminal units are equipped with microprocessor and servomotor control units produced for VAV applications.

These units control the air flow rate regardless of the pressure in the duct.

In SDH-K model VAV devices, the difference between the total pressure and static pressure of the air in the inlet is measured with pitot tubes in accordance with ASHARE terminology and this measurement value is transmitted to the electronic control center. In the total pressure station, the differential pressure difference between the averages of the measured values of a minimum of 12 total pressure measuring points depending on the device diameter is dynamically sent to the processor unit.

The processor compares this value with the signals from the BMS or DDC main control system and decides whether to increase or decrease the air flow rate.



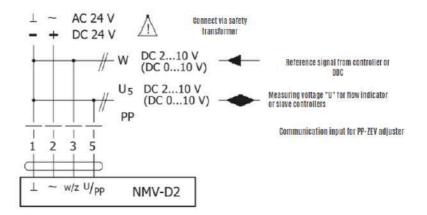




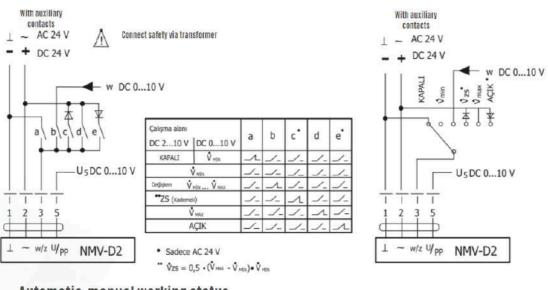


# Variable Air Flow Units





### Fully automatic working condition



Automatic-manual working status

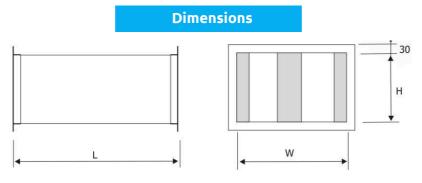




### Variable Air Flow Units

Silencers

One of the accessories of SDH-K variable air flow terminal units is silencers. The silencers, the types and dimensions of which are given below, can be factory-mounted on the device or shipped separately for ease of transportation.



MODEL	L	w	н
SA 100	900	325	225
SA 125	900	325	225
SA 160	900	360	260
SA 200	900	400	300
SA 250	900	450	350
SA 315	900	515	415
SA 355	900	555	455
SA 400	900	650	500
SA 500	900	750	600
SA 560	900	750	600

### Capacity

MODEL	63 Hz	125	250	500	1000	2000	4000
SA 100	2	2	2	5	13	12	8
SA 125	2	2	2	5	13	12	8
SA 160	2	2	2	5	13	12	8
SA 200	1	2	2	5	12	11	8
SA 250	1	1	2	4	10	9	7
SA 315	1	1	2	4	10	7	6
SA 355	1	1	1	3	9	6	5
SA 400	1	1	1	3	8	6	5

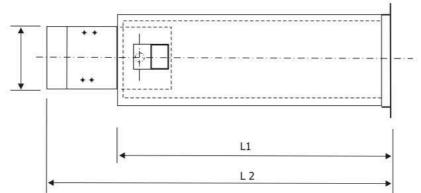


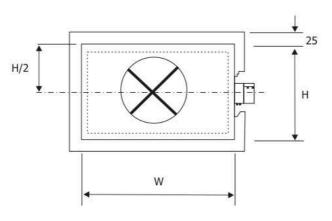


# Variable Air Flow Units

#### Dimensions

#### HEADUNIT





	D	н	w	L1	L2 (S)	L2 (E)	m
MODEL	mm	mm	mm	mm	mm	mm	kg
SDH-K 100	100	225	325	550	710	600	8,4
SDH-K 125	125	225	325	550	710	600	9
SDH-K 160	155	260	360	550	710	600	9,5
SDH-K 200	195	300	400	550	750	600	10,6
SDH-K 250	245	350	450	550	800	600	11,5
SDH-K 315	310	415	515	750	855	800	18,8
SDH-K 355	350	455	555	750	905	800	24,6
SDH-K 400	395	500	650	750	940	800	30,7
SDH-K 500	495	600	750	900	1000	900	
SDH-K 560	555	660	810	900	1000	900	



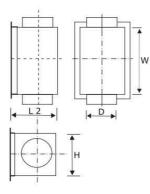


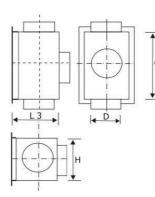


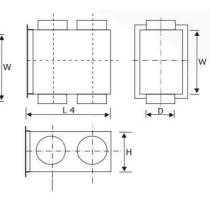
# Variable Air Flow Units

### Dimensions

PLENUM







	D	Η	w	L1	L2 (S)	L2 (E)
MODEL	mm	mm	mm	mm	mm	mm
SDH-K 100	100	225	325	200	200	370
SDH-K 125	125	225	325	225	225	420
SDH-K 160	155	260	360	260	260	490
SDH-K 200	195	300	400	300	300	570
SDH-K 250	245	350	450	350	350	670
SDH-K 315	310	415	515	415	415	800
SDH-K 355	350	455	555	455	455	880
SDH-K 400	395	500	650	500	500	970







# Variable Air Flow Units

### Sound Levels

p = 150 Pa

p = 250 Pa

53         33         29         26         17         < 15															
1         106         38         31         27         19         15         <15		m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)		m³/h	63	12
1         106         38         31         27         19         15         <15	2	53	33	29	26	17	< 15	< 15	< 15	< 15	< 15	2	53	35	3
319         53         51         43         32         32         31         28         21         31           N°/h         63         125         250         500         1K         2K         4K         8K         8K         6K         31           168         39         34         20         22         16         15         515         15           253         43         40         32         23         19         17         15         519         16         337         46         4           421         94         73         32         30         28         22         18         16         23           421         94         47         35         31         29         15         21         31           139         54         50         11         35         31         29         15         21         31           139         53         57         51         44         36         27         19         30         25         15         16         21           138         62         56         49         41         30         26	12		38	31	27	19	15	< 15	< 15	< 15	< 15	12	106	41	33
319         53         51         43         32         32         31         28         21         31           N°/h         63         125         250         500         1K         2K         4K         8K         8K         6K         31           168         39         34         20         22         16         15         515         15           253         43         40         32         23         19         17         15         519         16         337         46         4           421         94         73         32         30         28         22         18         16         23           421         94         47         35         31         29         15         21         31           139         54         50         11         35         31         29         15         21         31           139         53         57         51         44         36         27         19         30         25         15         16         21           138         62         56         49         41         30         26	¥	160	40	38	20	20	16	18	15	< 15	17	Ι¥	160	43	4(
319         53         51         43         32         32         31         28         21         31           N°/h         63         125         250         500         1K         2K         4K         8K         8K         6K         31           168         39         34         20         22         16         15         515         15           253         43         40         32         23         19         17         15         519         16         337         46         4           421         94         73         32         30         28         22         18         16         23           421         94         47         35         31         29         15         21         31           139         54         50         11         35         31         29         15         21         31           139         53         57         51         44         36         27         19         30         25         15         16         21           138         62         56         49         41         30         26	18											1 H			4.
m²/h         63         125         250         500         1K         2K         4K         8K         8K         8K         0K         3           168         34         30         26         20         16         215         216         217         216         217         217         16         18         277         337         31         22         21         310         217         17         15         15         16         217         200         44         218         250         500         1K         2K         4K         8K         4K(A)         30         20         21         30         21         210         210         210         210         210         210         210         210         210         210         210         210         210         210 <t< th=""><th>S</th><th>266</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>S</th><th>266</th><th></th><th>5</th></t<>	S	266										S	266		5
84         34         30         26         20         16         <15								31						The second second second second second second second second second second second second second second second s	53
168         39         34         29         22         18         15         <15	-														12
Y         253         43         40         32         23         19         17         15         <15	52											25			3
605         54         50         41         35         31         29         15         21         31           m²/h         63         125         250         500         1K         2K         4K         8K         dB(A)           139         41         37         30         22         <15	1														3.
605         54         50         41         35         31         29         15         21         31           m²/h         63         125         250         500         1K         2K         4K         8K         dB(A)           139         41         37         30         22         <15	ΙŤ.					_						ΙŤ			4.
605         54         50         41         35         31         29         15         21         31           m²/h         63         125         250         500         1K         2K         4K         8K         dB(A)           139         41         37         30         22         <15	ā											à			
m²/h         63         125         250         1K         2K         4K         8K         dB(A)           139         41         37         30         22         <15         <15         15         16         139         42         42         42           279         49         41         35         28         17         16         18         7         50         44         36         27         19         10         10         30         30         66         7         50         44         38         29         24         20         20         31         48         55         57         51         44         38         29         24         20         20         31         48         36         57         50	S	_							_			ം	_		49
139       41       37       30       22       <15       <15       15       16       17       15       <16       21         279       49       41       35       28       17       16       18       27         418       55       47       41       34       23       17       16       18       27         585       57       51       44       38       29       24       20       20       31         836       62       56       49       41       30       26       24       22       33         716       63       125       500       1K       2K       4K       8K       #8(7)       33       31       23       16       <15       15       16       219       42       33	$\vdash$														5
Y         279         49         41         35         28         17         15         <16			_												12
836         62         56         49         41         30         26         24         22         33           m³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           219         40         34         30         16         <15	100		-	_								09			4
836         62         56         49         41         30         26         24         22         33           m <sup>2</sup> /h         63         125         250         500         1K         2K         4K         8K         dB(A)           219         40         34         30         16         <15	12			_								12			
836         62         56         49         41         30         26         24         22         33           m <sup>2</sup> /h         63         125         250         500         1K         2K         4K         8K         dB(A)           219         40         34         30         16         <15	ΙŦ											1			- 11
836         62         56         49         41         30         26         24         22         33           m³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           219         40         34         30         16         <15	10		-	_								0	_		5.
m²/h         63         125         250         500         1K         2K         4K         8K         dB(A)           219         40         34         30         16<         <15         <15         <15         14           439         42         35         33         23         16         <15         16         <15         17           658         43         36         37         27         22         22         18         23           1097         51         42         38         29         25         24         25         19         25           313         35         25         500         1K         2K         4K         8K         4B(A)           345         33         33         25         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15		836					30	24	20	20			$\rightarrow$		5
Q1         40         34         30         16         <15															17
N         439         42         35         33         23         16         <15			-												3
1317         56         51         47         46         37         37         31         22         28         1317         55         5           N°         63         125         250         500         1K         2K         4K         8K         dB(A)           690         39         39         29         16         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <133         <123         <17         <13         <172         <172         <172         <172         <172         <172         <172         <172         <170         <	5											20			30
1317         56         51         47         46         37         37         31         22         28         1317         55         5           N°         63         125         250         500         1K         2K         4K         8K         dB(A)           690         39         39         29         16         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <133         <123         <17         <13         <172         <172         <172         <172         <172         <172         <172         <172         <170         <	×		-							16		×	_		3
1317         56         51         47         46         37         37         31         22         28         1317         55         5           N°         63         125         250         500         1K         2K         4K         8K         dB(A)           345         33         33         25         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <133         <11         <133         <12         <133         <13         <13         <12         <133         <13         <13         <12         <13         <13         <12	主											Ξ			4
1317         56         51         47         46         37         31         22         28         1317         55         5           n³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           690         39         39         29         16         <15	S											S			4
m³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           345         33         33         25         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <15         <165         <15         <16         <17         <175         <23         <21         17         15         23         <100         17         30         303         30         <120         275		1317		51	47	46	37	37			28		1317	55	5
Y°       690       39       39       29       16       < 15		m³/h	63	125	250		1K	2K	4K	8K	dB(A)			63	12
2070         54         54         48         41         33         32         31         28         34         2070         55         55           N°h         63         125         250         500         1K         2K         4K         8K         dB(A)           550         37         37         33         21         18         16         15         <15         18           101         44         43         38         25         23         21         17         15         23           1051         48         46         44         28         24         22         19         16         27           2020         51         50         47         30         27         23         20         17         30           2020         51         50         47         30         27         23         20         17         30         37         33         21         38         29         22         35         303         57         55         303         57         55         303         57         57         303         57         52         303         57         52 </th <th>0</th> <th></th> <th>33</th> <th>33</th> <th>25</th> <th>&lt; 15</th> <th>&lt; 15</th> <th>&lt; 15</th> <th>&lt; 15</th> <th>&lt; 15</th> <th>&lt; 15</th> <th></th> <th>345</th> <th>37</th> <th>3</th>	0		33	33	25	< 15	< 15	< 15	< 15	< 15	< 15		345	37	3
2070         54         54         48         41         33         32         31         28         34         2070         55         5.0           N°/h         63         125         250         500         1K         2K         4K         8K         dB(A)           550         37         37         33         21         18         16         15         <15         18           101         44         43         38         25         23         21         17         15         23           1051         48         46         44         28         24         22         19         16         27           2020         51         50         47         30         27         23         20         17         30           2752         52         51         48         32         29         22         35         50         33         30         30         37         33         21         18         36         46         48         46         40         30         30         37         33         21         18         16         24         33         36         36	1 10														
2070         54         54         48         41         33         32         31         28         34         2070         55         5.0           N°/h         63         125         250         500         1K         2K         4K         8K         dB(A)           550         37         37         33         21         18         16         15         <15         18           101         44         43         38         25         23         21         17         15         23           1051         48         46         44         28         24         22         19         16         27           2020         51         50         47         30         27         23         20         17         30           2752         52         51         48         32         29         22         35         50         33         30         30         37         33         21         18         36         46         48         46         40         30         30         37         33         21         18         16         24         33         36         36	N					16		< 15				25(	690	43	4
2070         54         54         48         41         33         32         31         28         34         2070         55         5.0           N°/h         63         125         250         500         1K         2K         4K         8K         dB(A)           550         37         37         33         21         18         16         15         <15         18           101         44         43         38         25         23         21         17         15         23           1051         48         46         44         28         24         22         19         16         27           2020         51         50         47         30         27         23         20         17         30           2752         52         51         48         32         29         22         35         50         33         30         30         37         33         21         18         36         46         48         46         40         30         30         37         33         21         18         16         24         33         36         36	-K 2	1035	43	42	34	16 19	16	< 15 15	< 15	< 15	20	-K 25(	690 1035	43 47	4
m³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           550         37         37         33         21         18         16         15         <15         18           1101         44         43         38         25         23         21         17         15         23           1651         48         46         44         28         24         22         19         16         27           202         51         50         47         30         27         23         20         17         30           303         59         57         56         43         40         38         29         22         19         32           701         37         37         33         21         18         16         51         18           1401         45         43         38         25         23         21         17         15         23           3503         52         51         48         31         27         23         20         33         1401         48         49	OH-K 2	1035 1380	43 45	42 46	34 36	16 19 27	16 20	< 15 15 23	< 15 18	< 15 16	20 25	OH-K 25(	690 1035 1380	43 47 49	4
S50         37         37         33         21         18         16         15         <15	SDH-K 25	1035 1380 1725	43 45 47	42 46 48	34 36 41	16 19 27 34	16 20 25	< 15 15 23 26	< 15 18 22	< 15 16 20	20 25 28	SDH-K 25	690 1035 1380 1725	43 47 49 50	4
n       1101       44       43       38       25       23       21       17       15       23       1101       43       44         1651       48       46       44       28       24       22       19       16       27       30       17       30       27       30       17       30       30       30       50       47       30       27       23       20       17       30       30       30       57       56       43       40       38       29       22       35       303       59       57       56       43       40       38       29       22       35       303       57       55       55       303       57       56       43       40       38       29       22       35       303       57       55       57       303       57       56       43       40       38       29       22       35       303       57       50       40 <th>SDH-K 25</th> <th>1035 1380 1725 2070</th> <th>43 45 47 54</th> <th>42 46 48 54</th> <th>34 36 41 48</th> <th>16 19 27 34 41</th> <th>16 20 25 33</th> <th>&lt; 15 15 23 26 32</th> <th>&lt; 15 18 22 31</th> <th>&lt; 15 16 20 28</th> <th>20 25 28 34</th> <th>SDH-K 25</th> <th>690 1035 1380 1725 2070</th> <th>43 47 49 50 55</th> <th>4</th>	SDH-K 25	1035 1380 1725 2070	43 45 47 54	42 46 48 54	34 36 41 48	16 19 27 34 41	16 20 25 33	< 15 15 23 26 32	< 15 18 22 31	< 15 16 20 28	20 25 28 34	SDH-K 25	690 1035 1380 1725 2070	43 47 49 50 55	4
3303       59       57       56       43       40       38       29       22       35       3303       57       55         y       m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         Y       701       37       37       33       21       18       16       <15       <15       18         1401       45       43       38       25       23       21       17       15       23         2102       49       47       45       28       24       22       19       16       28         303       54       53       50       34       30       27       23       20       33         3503       54       53       50       34       30       27       23       20       33         4204       59       58       56       45       41       40       30       22       35         891       38       32       20       18       16       24       86       86         1783       46       44       39       26       24       22       1	10000	1035 1380 1725 2070 m <sup>3</sup> /h	43 45 47 54 <b>63</b>	42 46 48 54 <b>125</b>	34 36 41 48 <b>250</b>	16 19 27 34 41 <b>500</b>	16 20 25 33 <b>1K</b>	< 15 15 23 26 32 <b>2K</b>	< 15 18 22 31 <b>4K</b>	< 15 16 20 28 <b>8K</b>	20 25 28 34 dB(A)		690 1035 1380 1725 2070 m <sup>3</sup> /h	43 47 49 50 55 <b>63</b>	4 4 5 5 <b>12</b>
3303       59       57       56       43       40       38       29       22       35       3303       57       55         y       m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         Y       701       37       37       33       21       18       16       <15       <15       18         1401       45       43       38       25       23       21       17       15       23         2102       49       47       45       28       24       22       19       16       28         303       54       53       50       34       30       27       23       20       33         3503       54       53       50       34       30       27       23       20       33         4204       59       58       56       45       41       40       30       22       35         891       38       32       20       18       16       24       86       86         1783       46       44       39       26       24       22       1	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550	43 45 47 54 <b>63</b> 37	42 46 48 54 <b>125</b> 37	34 36 41 48 <b>250</b> 33	16 19 27 34 41 <b>500</b> 21	16 20 25 33 <b>1K</b> 18	< 15 15 23 26 32 <b>2K</b> 16	< 15 18 22 31 <b>4K</b> 15	< 15 16 20 28 <b>8K</b> < 15	20 25 28 34 <b>dB(A)</b> 18		690 1035 1380 1725 2070 m <sup>3</sup> /h 550	43 47 49 50 55 <b>63</b> 40	41 41 5 5. 12 31
3303       59       57       56       43       40       38       29       22       35       3303       57       55         y       m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         Y       701       37       37       33       21       18       16       <15       <15       18         1401       45       43       38       25       23       21       17       15       23         2102       49       47       45       28       24       22       19       16       28         303       54       53       50       34       30       27       23       20       33         3503       54       53       50       34       30       27       23       20       33         4204       59       58       56       45       41       40       30       22       35         891       38       32       20       18       16       24       86       86         1783       46       44       39       26       24       22       1	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101	43 45 47 54 <b>63</b> 37 44	42 46 48 54 <b>125</b> 37 43	34 36 41 48 <b>250</b> 33 38	16 19 27 34 41 <b>500</b> 21 25	16 20 25 33 <b>1K</b> 18 23	< 15 15 23 26 32 <b>2K</b> 16 21	< 15 18 22 31 <b>4K</b> 15 17	< 15 16 20 28 <b>8K</b> < 15 15	20 25 28 34 <b>dB(A)</b> 18 23		690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101	43 47 50 55 <b>63</b> 40 43	44 5 5 12 3 4
3303       59       57       56       43       40       38       29       22       35       3303       57       55         y       m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         Y       701       37       37       33       21       18       16       <15       <15       18         1401       45       43       38       25       23       21       17       15       23         2102       49       47       45       28       24       22       19       16       28         303       54       53       50       34       30       27       23       20       33         3503       54       53       50       34       30       27       23       20       33         4204       59       58       56       45       41       40       30       22       35         891       38       32       20       18       16       24       86       86         1783       46       44       39       26       24       22       1	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651	43 45 47 54 <b>63</b> 37 44 48	42 46 48 54 <b>125</b> 37 43 46	34 36 41 48 <b>250</b> 33 38 44	16 19 27 34 41 <b>500</b> 21 25 28	16 20 25 33 <b>1K</b> 18 23 24	< 15 15 23 26 32 <b>2K</b> 16 21 22	< 15 18 22 31 <b>4K</b> 15 17 19	< 15 16 20 28 <b>8K</b> < 15 15 16	20 25 28 34 <b>dB(A)</b> 18 23 27		690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651	43 47 50 55 <b>63</b> 40 43 50	41 41 5 5 12 31 41 41 41
m³/h         63         125         250         500         1K         2K         4K         8K         dB(A)           Y         701         37         37         33         21         18         16         <15         18         16         <15         18         16         <15         15         18         1401         45         43         38         25         23         21         17         15         23         2102         49         47         45         28         24         22         19         16         28         2102         51         48         31         27         23         21         18         31         2102         51         48         44         200         23         20         33         3503         54         53         50         34         30         27         23         20         33         3503         54         55         56         45         41         40         30         22         35         4204         60         55         4204         60         55         4204         60         55         4204         60         55         4204         60         55	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202	43 45 47 54 <b>63</b> 37 44 48 51	42 46 48 54 <b>125</b> 37 43 46 50	34 36 41 48 <b>250</b> 33 38 44 47	16 19 27 34 41 <b>500</b> 21 25 28 30	16 20 25 33 <b>1K</b> 18 23 24 27	< 15 15 23 26 32 <b>2K</b> 16 21 22 23	< 15 18 22 31 <b>4K</b> 15 17 19 20	< 15 16 20 28 <b>8K</b> < 15 15 16 17	20 25 28 34 <b>dB(A)</b> 18 23 27 30		690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202	43 47 49 50 55 <b>63</b> 40 43 50 52	41 5 5 12 31 4 41 5
YO1       37       37       33       21       18       16       <15	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752	43 45 47 54 <b>63</b> 37 44 48 51 52	42 46 48 54 <b>125</b> 37 43 46 50 51	34 36 41 <b>250</b> 33 38 44 47 48	16 19 27 34 41 <b>500</b> 21 25 28 30 32	16 20 25 33 <b>1K</b> 18 23 24 27 29	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26	< 15 18 22 31 <b>4K</b> 15 17 19 20 22	< 15 16 20 28 <b>8K</b> < 15 15 15 16 17 19	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32		690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752	43 47 49 50 55 <b>63</b> 40 43 50 52 55	40 41 5 5 12 30 41 41 5 5
4204       59       58       56       45       41       40       30       22       35       4204       60       5         m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         891       38       38       33       21       18       16       15       <15       18         1783       46       44       39       26       24       22       18       16       24       24       1783       49       44         2674       50       48       46       28       25       23       19       17       29       2674       53       55         3565       54       53       49       33       28       24       22       19       33       3565       57       50         4456       52       56       53       36       32       28       24       22       36       6       59       50	10000	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303	43 45 47 54 <b>63</b> 37 44 48 51 52 59	42 46 48 54 125 37 43 46 50 51 57	34 36 41 48 <b>250</b> 33 38 44 47 48 56	16 19 27 34 41 <b>500</b> 21 25 28 30 32 43	16 20 25 33 <b>1K</b> 18 23 24 27 29 40	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32 35		690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303	43 47 50 55 <b>63</b> 40 43 50 52 55 55 57	44 55 52 33 44 55 55 55
4204       59       58       56       45       41       40       30       22       35       4204       60       57         m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         891       38       38       33       21       18       16       15       <15       18         1783       46       44       39       26       24       22       18       16       24       24       1783       49       40         2674       50       48       46       28       25       23       19       17       29       2674       53       50	SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 45 54 <b>63</b> 37 44 48 51 52 59 <b>63</b>	42 46 48 54 125 37 43 46 50 51 57 125	34 36 41 48 <b>250</b> 33 38 44 47 48 56 <b>250</b>	16 19 27 34 41 <b>500</b> 21 25 28 30 32 43 <b>500</b>	16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b>	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 26 38 <b>2K</b>	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29 29 <b>4K</b>	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b>	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A)	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 47 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b>	44 44 55 52 39 49 49 55 54 55 54 55 12
4204       59       58       56       45       41       40       30       22       35       4204       60       5         m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         891       38       38       33       21       18       16       15       <15       18         1783       46       44       39       26       24       22       18       16       24       24       1783       49       44         2674       50       48       46       28       25       23       19       17       29       2674       53       55         3565       54       53       49       33       28       24       22       19       33       3565       57       50         4456       52       56       53       36       32       28       24       22       36       6       59       50	SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701	43 45 54 <b>63</b> 37 44 48 51 52 59 <b>63</b> 37	42 46 48 54 <b>125</b> 37 43 46 50 51 57 <b>125</b> 37	34 36 41 48 <b>250</b> 33 38 44 47 48 56 <b>250</b> 33	16 19 27 34 41 21 25 28 30 32 43 500 21	16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 26 38 2 <b>K</b> 16	< 15 18 22 31 4K 15 17 19 20 22 29 29 4K < 15	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b> < 15	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A) 18	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 47 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40	44 55 55 12 33 44 55 55 55 12 33
4204       59       58       56       45       41       40       30       22       35       4204       60       5         m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         891       38       38       33       21       18       16       15       <15       18         1783       46       44       39       26       24       22       18       16       24       24       1783       49       44         2674       50       48       46       28       25       23       19       17       29       2674       53       55         3565       54       53       49       33       28       24       22       19       33       3565       57       50         4456       52       56       53       36       32       28       24       22       36       6       59       50	SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401	43 45 54 <b>63</b> 37 44 48 51 52 59 <b>63</b> 37 45	42 46 48 54 125 37 43 46 50 51 57 125 37 43	34 36 41 48 <b>250</b> 33 38 44 47 48 56 <b>250</b> 33 38	16 19 27 34 41 <b>500</b> 21 25 28 30 32 43 <b>500</b> 21 21 25	16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 26 38 <b>2K</b> 16 21	< 15 18 22 31 4K 15 17 19 20 22 29 22 29 4K < 15 17	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b> < 15 5 15	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A) 18 23	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 47 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48	44 55 55 12 39 4 4 55 55 55 55 55 55 55 55 55 55 55 55
4204       59       58       56       45       41       40       30       22       35       4204       60       57         m³/h       63       125       250       500       1K       2K       4K       8K       dB(A)         891       38       38       33       21       18       16       15       <15       18         1783       46       44       39       26       24       22       18       16       24       24       1783       49       40         2674       50       48       46       28       25       23       19       17       29       2674       53       50	SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102	43 45 54 <b>63</b> 37 44 48 51 52 59 <b>63</b> 37 45 49	42 46 48 54 125 37 43 46 50 51 57 125 37 43 43 47	34 36 41 48 <b>250</b> 33 38 44 47 48 56 <b>250</b> 33 38 38 45	16 19 27 34 41 <b>500</b> 21 25 28 30 32 43 <b>500</b> 21 25 28	16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 <b>2K</b> 16 21 22 23	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29 <b>4K</b> < 15 17 19 19	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b> < 15 15 15 15	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32 35 <b>dB(A)</b> 18 23 28	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 47 49 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51	44 55 52 39 49 55 55 55 55 12 39 44 55 55 55 12 39 44 55
891         38         33         21         18         16         15         <15	DH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803	43 45 47 54 63 37 44 48 51 52 59 63 37 45 49 52	42 46 48 54 125 37 43 46 50 51 57 125 37 43 47 51	34 36 41 48 <b>250</b> 33 38 44 47 48 56 <b>250</b> 33 38 45 48	16 19 27 34 41 <b>500</b> 21 25 28 30 32 43 <b>500</b> 21 25 28 31	16 20 25 33 1K 18 23 24 27 29 40 1K 18 23 24 27 29 40 27	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 <b>2K</b> 16 21 22 23 26 38 2 <b>K</b> 16 21 22 23 26 38	< 15 18 22 31 4K 15 17 19 20 22 29 4K < 15 17 19 21	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b> < 15 15 16 18	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32 35 <b>dB(A)</b> 18 23 28 31	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	43 47 49 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51 54	44 55 122 39 44 55 55 122 39 44 55 55
9       1783       46       44       39       26       24       22       18       16       24       9       1783       49       44         ×       2674       50       48       46       28       25       23       19       17       29       2674       53       55         3565       54       53       49       33       28       24       22       19       33       3565       57       50         4456       52       56       53       36       32       28       24       22       36       6       4456       59       50	DH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503	43 45 47 54 <b>63</b> 37 44 48 51 52 59 <b>63</b> 37 45 49 52 52 54	42 46 54 <b>125</b> 37 43 46 50 51 57 <b>125</b> 37 43 47 51 53	34           36           41           48           250           33           34           47           48           56           250           33           38           45           48           50	16 19 27 34 41 500 21 25 28 30 32 43 500 21 25 28 31 34	16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 27 30	< 15 15 23 26 32 2 <b>K</b> 16 21 22 23 26 38 26 38 2 <b>K</b> 16 21 22 23 22 23 27	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29 <b>4K</b> < 15 17 19 21 21 23	< 15 16 20 28 <b>8K</b> < 15 15 16 17 9 22 <b>8K</b> < 15 15 16 18 20	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32 35 <b>dB(A)</b> 18 23 28 31 33	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503	43 47 49 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 40 48 51 54 57	44 55 52 33 44 55 55 12 39 44 55 55 55
	DH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204	43 45 47 54 <b>63</b> 37 44 48 51 52 59 <b>63</b> 37 45 49 52 54 59	42 46 54 125 37 43 46 50 51 57 125 37 43 47 51 53 58	34           36           41           48           250           33           34           44           47           48           56           33           38           45           48           50           56	16 19 27 34 41 21 25 28 30 32 43 500 21 25 28 31 34 45	16 20 25 33 <b>1K</b> 23 24 27 29 40 <b>1K</b> 18 23 24 27 30 41	< 15 15 23 26 32 <b>2K</b> 16 21 22 23 26 38 <b>2K</b> 16 21 21 22 23 22 23 27 40	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29 <b>4K</b> < 15 17 19 21 21 23 30	< 15 16 20 28 <b>8K</b> < 15 15 15 16 7 9 22 <b>8K</b> < 15 15 16 18 20 22	20 25 28 34 <b>dB(A)</b> 18 23 27 30 32 35 <b>dB(A)</b> 18 23 28 31 33 35	SDH-K 315	690 1035 1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h	43 47 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51 54 57 60	44 55 52 33 44 55 55 55 55 55 55
	SDH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>2</sup> /h 550 1101 1651 2202 2752 3303 m <sup>2</sup> /h 701 1401 2102 2803 3503 4204 m <sup>2</sup> /h 891	43 45 54 63 37 44 48 51 52 59 63 37 45 49 52 52 54 59 63	42 46 37 37 43 46 50 51 57 125 37 43 47 51 53 58 125	34 36 41 33 38 44 47 48 56 250 33 38 45 48 50 56 56 250 33	16 19 27 34 41 25 28 30 32 43 30 21 25 28 31 34 45 <b>500</b> 21	16 20 25 33 <b>1K</b> 23 24 27 29 40 <b>1K</b> 18 23 24 27 30 41 <b>1K</b>	< 15 15 23 26 32 28 16 21 22 23 26 38 26 38 26 38 21 22 23 27 40 22 23 27 40 21 22 23 27 40	< 15 18 22 31 4K 15 17 19 20 22 29 4K < 15 17 19 20 < 15 17 19 21 23 30 4K	< 15 16 20 28 <b>8K</b> < 15 15 16 17 19 22 <b>8K</b> < 15 16 18 20 22 <b>8K</b> < 15	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A) 18 23 28 31 33 35 dB(A)	SDH-K 355 SDH-K 315	690 1035 1380 1725 2070 m <sup>7</sup> /h 550 1101 1651 2202 2752 3303 m <sup>7</sup> /h 701 1401 2102 2803 3503 4204 m <sup>7</sup> /h 8913	43 47 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51 51 54 57 60 63	44 55 55 12 37 44 55 55 12 37 44 55 55 55 55 55 51 22
	SDH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>2</sup> /h 550 1101 1651 2202 2752 3303 m <sup>2</sup> /h 701 1401 2102 2803 3503 4204 m <sup>2</sup> /h 891 1783	43 45 47 54 63 37 44 48 51 52 59 63 37 45 49 52 54 59 52 54 59 52 54 59 52 54 59 52 54 59 52 54 59 52 54 50 52 52 53 54 54 54 54 54 54 54 54 54 54 54 54 54	42 46 37 37 43 46 50 51 57 125 37 43 47 51 53 58 125 38	34 36 41 33 38 44 47 48 56 250 33 38 45 48 50 56 56 250 33	16 19 27 34 41 25 28 30 32 43 30 21 25 28 31 34 45 <b>500</b> 21	16 20 25 33 1 <b>K</b> 23 24 27 29 40 <b>1K</b> 18 23 24 27 30 41 1 <b>K</b> 18	< 15 15 23 26 32 28 16 21 22 23 26 38 26 38 21 22 23 27 40 22 23 27 40 22 23 27 40 22 23 27 40 22 23 22 23 22 24 24 24 24 24 24 24 24 24 24 24 24	< 15 18 22 31 <b>4K</b> 15 17 20 22 29 <b>4K</b> 29 <15 17 19 21 21 23 30 <b>4K</b>	< 15 16 20 28 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 15 16 18 20 22 <b>8K</b> < 15 15 16 15 15 15 15 15 15 15 15 15 15	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A) 8 31 33 35 dB(A) 18	SDH-K 355 SDH-K 315	690 1035 1380 1725 2070 m <sup>7</sup> /h 550 1101 1651 2202 2752 3303 m <sup>7</sup> /h 701 1401 2102 2803 3503 4504 48913 1783	43 47 49 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51 54 54 57 60 <b>63</b> 41 49	44 55 52 33 44 47 55 55 12 33 44 55 55 55 55 55 12 44 44 4
	SDH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>2</sup> /h 550 1101 1651 2202 2202 22752 3303 m <sup>2</sup> /h 701 1401 2102 2803 3503 3503 3503 4204 m <sup>2</sup> /h 1783 2674	43 45 47 54 63 37 44 48 51 52 59 63 37 45 52 52 54 52 54 55 54 52 54 53 8 38 46 50	42 46 54 54 53 7 43 46 50 51 57 57 53 7 53 43 47 53 53 58 125 38 44 48	34 36 41 <b>250</b> 33 38 44 47 48 56 <b>250</b> 33 8 45 48 50 56 <b>250</b> 33 33 39 46	16 19 27 34 41 25 28 30 32 43 500 21 25 28 31 34 45 500 21 26 28	16 20 25 33 <b>1K</b> 23 24 27 29 40 <b>1K</b> 8 23 24 27 30 41 <b>1K</b> 18 24 27 27 29 5	< 15 15 23 26 32 28 28 28 23 26 38 22 23 26 38 28 16 21 22 23 27 40 27 40 22 23 27 40 22 23 27 40 22 23 22 23 23 23 24 24 24 25 26 26 26 27 26 26 27 26 26 27 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 26 27 27 26 27 27 26 27 27 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27	< 15 18 22 31 <b>4K</b> 15 17 19 20 22 29 <b>4K</b> 15 17 19 21 23 30 <b>4K</b> 15 17 19 20 <b>4K</b> <b>4</b> <b>5</b> 17 19 20 <b>4</b> <b>4</b> <b>5</b> <b>5</b> <b>1</b> <b>1</b> <b>1</b> <b>5</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	< 15 16 20 28 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 16 18 20 22 <b>8K</b> < 15 16 17 16 17 15 16 17 15 16 17 15 15 15 15 15 15 15 15 15 15	20 25 28 34 dB(A) 18 23 27 30 32 35 dB(A) 18 23 28 31 33 35 dB(A) 18 23 28 31 33 35 dB(A) 28 31 33 35 28 31 32 35 35 35 35 35 35 35 35 35 35 35 35 35	SDH-K 355 SDH-K 315	690 1035 1380 1725 2070 m <sup>7</sup> /h 550 1101 1651 2202 2202 22752 3303 m <sup>7</sup> /h 701 1401 2102 2803 3503 4204 m <sup>7</sup> /h 8913 1783 2674	43 47 49 50 55 <b>63</b> 40 43 50 52 57 <b>63</b> 40 48 51 54 54 54 54 54 54 54 54 54 54 53	44 44 55 52 12 39 44 55 55 12 39 44 55 55 12 39 44 55 55 12 39 44 55 55 12 55 55 12 55 55 55 55 55 55 55 55 55 5
<b>5350</b> 68 65 56 42 37 36 31 28 42 <b>5350</b> 60 59	SDH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>2</sup> /h 550 1101 1651 2202 2202 23303 m <sup>2</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 1783 2674 3565	43 45 47 54 63 37 44 48 51 52 59 63 37 45 59 52 54 54 54 55 63 38 46 50 54	42 46 48 54 125 37 43 46 50 50 57 125 37 43 47 51 53 58 43 47 51 53 88 44 48 53	34 36 41 250 33 38 44 47 47 47 47 56 250 33 38 45 48 50 56 56 33 33 38 45 50 50 53 33 39 46 49	16 19 27 34 41 25 28 30 32 43 500 21 25 28 31 34 45 500 21 26 28 33	16 20 25 33 <b>1K</b> 23 24 27 27 29 40 <b>1K</b> 18 23 24 27 30 41 <b>1</b> 8 23 24 27 30 1 1 <b>1</b> 8 23 24 27 27 29 29 20 20 27 27 29 20 20 20 20 20 20 20 20 20 20 20 20 20	< 15 15 23 26 32 27 28 28 23 26 38 22 23 26 38 24 21 22 23 27 40 21 22 23 27 40 21 22 23 23 24 24 25 24 25 23 26 27 26 27 27 28 28 28 28 28 28 28 28 28 28	< 15 18 22 31 4K 15 17 19 20 20 22 29 4K < 15 17 19 21 23 30 4K 15 17 19 21 23 4K 15 17 19 20 20 20 20 20 20 20 20 20 20	< 15 16 20 28 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 16 18 20 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 17 19 22 <b>8K</b> < 15 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 17 17 19 22 <b>8K</b> < 15 17 17 17 17 17 17 17 17 17 15 15 16 16 17 17 15 15 16 17 17 15 15 16 15 16 17 17 15 16 16 18 20 22 <b>8K</b> <b>8K</b> <b>15</b> 15 16 16 17 17 19 19 22 <b>8K</b> <b>15</b> 15 16 16 18 20 22 <b>15</b> 16 16 17 17 19 19 22 15 15 16 16 18 16 16 16 17 19 19 22 15 16 16 16 16 16 16 16 16 16 16	20 25 28 34 dB(A) 18 27 30 32 35 dB(A) 18 23 28 31 33 35 dB(A) 18 23 28 31 33 55 dB(A) 18 23 28 31 33 35 35 35 35 35 35 35 35 35 35 35 35	SDH-K 355 SDH-K 315	690 1035 1380 1725 2070 m <sup>7</sup> /h 550 1101 1651 2202 2202 22752 3303 m <sup>7</sup> /h 701 1401 2102 2803 3503 4204 m <sup>7</sup> /h 8913 1783 2674 3565	43 47 49 50 55 <b>63</b> 40 43 50 52 57 <b>63</b> 40 48 51 54 54 54 54 54 60 <b>63</b> 41 49 53 57	44 44 55 57 12 39 44 55 55 12 39 44 55 55 12 39 44 55 55 12 39 44 55 55 12 39 44 55 55 12 55 55 55 55 55 55 55 55 55 5
	SDH-K 355 SDH-K 315	1035 1380 1725 2070 m <sup>2</sup> /h 550 1101 1651 2202 2202 23303 m <sup>2</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 1783 2674 3565 4456	43 45 47 54 63 37 44 8 51 52 59 63 37 45 49 52 54 59 52 54 59 52 54 50 50 54 52	42 46 48 54 125 37 43 46 50 51 57 125 37 43 47 51 53 58 125 38 44 44 48 53 56	34 36 41 33 38 44 47 47 48 56 250 33 38 45 48 50 56 56 250 33 33 39 46 49 53	16 19 27 34 41 25 28 30 32 43 32 43 500 21 25 28 31 34 45 500 21 25 28 31 34 45 500 21 26 28 33 33 36	16 20 25 33 <b>1K</b> 24 27 29 40 <b>1K</b> 18 23 24 27 30 41 <b>1K</b> 18 23 24 27 30 41 <b>1</b> 8 23 24 27 29 29 30 30 30 30 30 30 30 30 30 30 30 30 30	<ul> <li>&lt; 15</li> <li>15</li> <li>23</li> <li>26</li> <li>32</li> <li>28</li> <li>28</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>38</li> <li>28</li> <li>28</li> </ul>	< 15 18 22 31 4K 15 17 20 20 22 29 4K < 15 17 19 21 23 30 21 23 30 4K 15 18 19 22 24	< 15 16 20 28 <b>8K</b> < 15 16 17 17 19 22 <b>8K</b> < 15 16 18 20 22 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 16 17 19 22 <b>8K</b> < 15 17 19 22 <b>8K</b> < 15 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 17 17 19 22 <b>8K</b> < 15 16 17 17 19 22 <b>8K</b> < 15 16 17 17 19 22 <b>8K</b> < 15 16 17 17 19 22 <b>8K</b> 15 15 16 16 17 17 19 22 22 <b>8K</b> 20 20 22 <b>8K</b> 20 20 20 20 20 20 20 20 20 20	20 25 28 34 dB(A) 18 27 30 32 35 dB(A) 18 23 28 31 33 35 dB(A) 18 23 28 31 33 35 28 31 33 28 31 33 35 35 35 33 35 33 35 33 35 33 33 33	SDH-K 355 SDH-K 315	690 1035 1380 1725 2070 m <sup>7</sup> /h 550 1101 1651 2202 2202 22752 3303 m <sup>7</sup> /h 701 1401 2102 2803 3503 4204 m <sup>7</sup> /h 8913 1783 2674 3565 4456	43 47 49 50 55 <b>63</b> 40 43 50 52 55 57 <b>63</b> 40 48 51 54 57 60 <b>63</b> 41 49 53 57 59	44 43 55 52 33 45 55 55 55 55 55 55 55 55 55 55 55 55

	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
0	53	35	31	27	19	17	15	< 15	< 15	< 15
5	106	41	33	29	21	18	16	15	< 15	16
¥	160	43	40	33	22	19	20	17	15	20
<b>SDH-K 100</b>	213	45	43	36	28	22	25	20	16	23
S	266	53	52	43	33	31	28	23	20	30
	319	56	53	50	39	39	34	23	21	35
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
ŝ	84	36	31	27	22	18	15	< 15	< 15	15
<b>SDH-K 125</b>	168	40	35	29	23	19	16	15	< 15	17
¥	263	45	42	32	25	20	19	16	< 15	20
÷	337	46	45	38	33	23	24	19	17	25
S	421	50	49	40	36	31	29	23	22	29
	505	57	54	47	42	39	30	27	23	34
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
0	139	42	40	32	25	15	< 15	< 15	15	19
16	279	50	44	41	31	18	16	15	17	25
¥	418	56	48	45	36	24	18	17	19	30
<b>SDH-K 160</b>	558	59	53	47	38	28	20	18	21	33
SL	697	61	54	48	43	31	26	22	22	34
	836	69	59	49	43	33	28	24	21	16
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
0	219	42	37	34	20	15	< 15	< 15	15	18
20	439	43	36	34	24	17	15	15	16	19
¥	658	44	38	37	26	18	20	23	20	22
SDH-K 200	878	50	40	40	30	28	25	24	21	26
S	1097	53	49	44	33	29	28	27	22	30
	1317	55	51	46	34	30	31	29	24	32
	m <sup>3</sup> /h	63	125	250	500	1K	2K	4K	8K	dB(A)
0	345	37	35	32	16	< 15	< 15	< 15	< 15	< 15
<b>SDH-K 250</b>	690	43	42	35	20	16	16	15	< 15	20
¥	1035	47	46	38	25	18	19	15	15	24
÷	1380	49	48	43	38	24	25	23	18	28
S	1725	50	51	46	36	28	28	26	22	31
10.00	2070	55	52	49	38	30	29	28	24	33
1	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
LO.	550	40	39	35	24	20	17	16	< 15	20
31	1101	43	45	42	27	25	22	18	17	26
¥	1651	50					Sufe			
100		50	49	46	32	27	25	22	18	30
H	2202	52	53	46 49	34	27 29	25 27	22 24	19	33
<b>SDH-K 315</b>	2752			the state of the s		27	25	22		
SDH	2752 3303	52	53 54 55	49	34 36 38	27 29	25 27	22 24	19 21 23	33 35 37
SDH	2752	52 55	53 54 55 <b>125</b>	49 41 43 <b>250</b>	34 36 38 <b>500</b>	27 29 32 35 <b>1K</b>	25 27 30 33 <b>2K</b>	22 24 26 29 <b>4K</b>	19 21 23 <b>8K</b>	33 35
	2752 3303 m <sup>3</sup> /h 701	52 55 57 <b>63</b> 40	53 54 55 <b>125</b> 39	49 41 43 <b>250</b> 35	34 36 38 <b>500</b> 25	27 29 32 35 <b>1K</b> 20	25 27 30 33 <b>2K</b> 18	22 24 26 29 <b>4K</b> 17	19 21 23 <b>8K</b> < 15	33 35 37 <b>dB(A)</b> 20
	2752 3303 m <sup>3</sup> /h 701 1401	52 55 57 <b>63</b> 40 48	53 54 55 <b>125</b> 39 46	49 41 43 <b>250</b>	34 36 38 <b>500</b> 25 29	27 29 32 35 <b>1K</b> 20 26	25 27 30 33 <b>2K</b> 18 23	22 24 26 29 <b>4K</b> 17 19	19 21 23 <b>8K</b> < 15 17	33 35 37 <b>dB(A)</b> 20 26
	2752 3303 m <sup>3</sup> /h 701 1401 2102	52 55 57 63 40 48 51	53 54 55 <b>125</b> 39 46 50	49 41 43 <b>250</b> 35 42 47	34 36 38 <b>500</b> 25 29 31	27 29 32 35 <b>1K</b> 20 26 27	25 27 30 33 <b>2K</b> 18 23 25	22 24 26 29 <b>4K</b> 17 19 22	19 21 23 <b>8K</b> < 15 17 19	33 35 37 <b>dB(A)</b> 20 26 30
	2752 3303 m <sup>3</sup> /h 701 1401	52 55 57 <b>63</b> 40 48	53 54 55 <b>125</b> 39 46	49 41 43 <b>250</b> 35 42	34 36 38 <b>500</b> 25 29 31 35	27 29 32 35 <b>1K</b> 20 26 27 30	25 27 30 33 <b>2K</b> 18 23	22 24 26 29 <b>4K</b> 17 19	19 21 23 <b>8K</b> < 15 17	33 35 37 <b>dB(A)</b> 20 26
SDH-K 355 SDH	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503	52 55 57 63 40 48 51	53 54 55 <b>125</b> 39 46 50	49 41 43 <b>250</b> 35 42 47	34 36 38 <b>500</b> 25 29 31	27 29 32 35 <b>1K</b> 20 26 27	25 27 30 33 <b>2K</b> 18 23 25	22 24 26 29 <b>4K</b> 17 19 22	19 21 23 <b>8K</b> < 15 17 19	33 35 37 <b>dB(A)</b> 20 26 30
	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204	52 55 63 40 48 51 54	53 54 55 <b>125</b> 39 46 50 54 56 57	49 41 43 <b>250</b> 35 42 47 50	34 36 38 <b>500</b> 25 29 31 35	27 29 32 35 <b>1K</b> 20 26 27 30 33 35	25 27 30 33 <b>2K</b> 18 23 25 27	22 24 26 29 <b>4K</b> 17 19 22 24	19 21 23 <b>8K</b> < 15 17 19 20	33 35 37 <b>dB(A)</b> 20 26 30 34 36 18
	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h	52 55 63 40 48 51 54 57	53 54 55 <b>125</b> 39 46 50 54 56	49 41 43 <b>250</b> 35 42 47 50 53	34 36 38 <b>500</b> 25 29 31 35 37	27 29 32 35 <b>1K</b> 20 26 27 30 33	25 27 30 33 <b>2K</b> 18 23 25 27 30	22 24 29 <b>4K</b> 17 19 22 24 24 26	19 21 23 <b>8K</b> < 15 17 19 20 22	33 35 37 <b>dB(A)</b> 20 26 30 34 36
SDH-K 355	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913	52 55 63 40 48 51 54 57 60	53 54 55 <b>125</b> 39 46 50 54 56 57	49 41 43 <b>250</b> 35 42 47 50 53 55	34 36 38 25 29 31 35 37 40	27 29 32 35 <b>1K</b> 20 26 27 30 33 35	25 27 30 33 <b>2K</b> 18 23 25 27 30 33	22 24 29 <b>4K</b> 17 19 22 24 26 28	19 21 23 <b>8K</b> < 15 17 19 20 22 22 24	33 35 37 dB(A) 20 26 30 34 36 18 dB(A) 21
SDH-K 355	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913 1783	52 55 63 40 48 51 54 57 60 63	53 54 55 <b>125</b> 39 46 50 54 56 57 <b>125</b>	49 41 43 <b>250</b> 35 42 47 50 53 55 <b>250</b>	34 36 38 25 29 31 35 37 40 <b>500</b>	27 29 32 35 <b>1K</b> 20 26 27 30 33 35 <b>1K</b>	25 27 30 33 <b>2K</b> 18 23 25 27 30 33 <b>2K</b>	22 24 26 29 <b>4K</b> 17 19 22 24 26 28 <b>4K</b>	19 21 23 <b>8K</b> <15 17 19 20 22 24 <b>8K</b>	33 35 37 dB(A) 20 26 30 34 36 18 dB(A)
SDH-K 355	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913 1783 2674	52 55 63 40 48 51 54 57 60 63 41	53 54 55 <b>125</b> 39 46 50 54 56 57 <b>125</b> 40	49 41 43 <b>250</b> 35 42 47 50 53 55 <b>250</b> 36	34 36 38 25 29 31 35 37 40 <b>500</b> 27	27 29 32 35 <b>1K</b> 20 26 27 30 33 35 <b>1K</b> 21	25 27 30 33 <b>2K</b> 18 23 25 27 30 33 <b>2K</b> 19	22 24 29 <b>4K</b> 17 19 22 24 26 28 <b>4K</b> 18	19 21 23 <b>8K</b> < 15 17 19 20 22 24 <b>8K</b> 16	33 35 37 dB(A) 20 26 30 34 36 18 dB(A) 21
SDH-K 355	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913 1783 2674 3565	52 55 63 40 48 51 54 57 60 63 41 49	53 54 55 <b>125</b> 39 46 50 54 56 57 <b>125</b> 40 47	49 41 43 35 42 47 50 53 55 55 <b>250</b> 36 42	34 36 38 25 29 31 35 37 40 <b>500</b> 27 31	27 29 32 35 <b>1K</b> 20 26 27 30 33 35 <b>1K</b> 21 22	25 27 30 33 <b>2K</b> 18 23 25 27 30 33 33 2 <b>K</b> 19 25	22 24 29 <b>4K</b> 17 19 22 24 26 28 <b>4K</b> 18 18 21	19 21 23 <b>8K</b> < 15 17 19 20 22 24 24 <b>8K</b> 16 18	33 35 37 <b>dB(A)</b> 20 26 30 34 36 18 <b>dB(A)</b> 21 27
	2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913 1783 2674	52 55 57 <b>63</b> 40 48 51 54 57 60 <b>63</b> 41 49 53	53 54 55 <b>125</b> 39 46 50 54 56 57 <b>125</b> 40 47 51	49 41 43 35 42 47 50 53 55 55 250 36 42 49	34 36 38 25 29 31 35 37 40 <b>500</b> 27 31 31 31	27 29 32 35 <b>1K</b> 20 26 27 30 33 35 <b>1K</b> 21 22 28	25 27 30 33 <b>2K</b> 25 27 30 33 <b>2K</b> 19 25 26	22 24 26 29 <b>4K</b> 17 19 22 24 26 28 <b>4K</b> 18 21 22	19 21 23 <b>8K</b> < 15 17 19 20 22 24 <b>8K</b> 16 18 20	33 35 37 dB(A) 20 26 30 34 36 18 dB(A) 21 27 32





# Variable Air Flow Units

### Sound Levels

## p = 500 Pa

				-			_			
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
2	53	38	33	29	22	21	18	15	< 15	17
12	106	44	35	33	25	22	19	17	15	20
¥	160	46	42	35	26	23	22	18	16	22
SDH-K 100	213	48	45	38	30	25	27	21	18	25
S	266	55	54	44	35	33	32	24	21	32
<u> </u>	319	58	57	47	37	36	36	26	24	34
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
5	84	38	33	28	23	20	17	15	< 15	17
SDH-K 125	168	43	37	31	25	22	17	16	< 15	19
¥	263	47	44	35	27	23 25	18	18	16	23
±.	337	48	47	40	34	25	20	21	20	27
S	421	52	51	43	39	34	32	26	24	32
	505	55	53	47	45	39	35	28	25	34
	m³/h	63	125	250	500	1K	2K	4K	8K	dB(A)
	139	44	42	34	25	19	16	15	18	21
16	279	51	47	42	34	21	18	16	21	27
¥	418	57	49	47	38	26	19	18	22	31
±	558	61	53	48	40	26 29	22	18 20	22	34
SDH-K 160	697	62	55	50	42	32	27	22	22 23	35
100000	836	64	57	51	44	35	30	24	24	37
$\vdash$	m <sup>3</sup> /h	63	125	250	500	1K	2K	4K	24 8K	dB(A)
	219	43	39	35	22	16	< 15	< 15	< 15	19
SDH-K 200	439	45	39	37	27	20	16	21	19	22
	658	50	47	42	32	20	21	26	21	28
I÷.	878	53	47	42	36	31	26	30	21	30
ā					34	22	20	28	22	34
S S	1097	56	51	51		33 35	29	20	23	36
	1317 m³/h	58 63	53 125	53 250	36 500	35 1K	31 2K	30 4K	24 8K	dB(A)
	345	41	39	35	19	< 15		< 15		18
8				40	25	< 15	< 15	< 15		24
5	690 1035	46	44	40	25	19	20	20	18	
¥		40	40	44	20	22	24	24	24	
	1035	49	48	44	30	19 23	24	20	21	28
E	1380	51	48 51	44 46	30 34	27	24 28	27	21 24	28 31
SDH-K 250	1380 1725	51 54	48 51	44 46 50	30 34 39	27	24 28	27	21 24	28 31 34
HDS	1380 1725 2070	51 54 55	48 51 53 53	44 46 50 52	30 34 39 40	27 32 33	24 28 32 33	27 30 30	21 24 28 29	28 31 34 36
	1380 1725 2070 m <sup>3</sup> /h	51 54 55 63	48 51 53 53 125	44 46 50 52 250	30 34 39 40 500	27 32 33 1K	24 28 32 33 2K	27 30 30 4K	21 24 28 29 8K	28 31 34 36 dB(A)
	1380 1725 2070 m <sup>3</sup> /h 550	51 54 55 63 44	48 51 53 53 125 43	44 46 50 52 250 39	30 34 39 40 500 39	27 32 33 1K	24 28 32 33 2K	27 30 30 4K	21 24 28 29 8K 16	28 31 34 36 dB(A) 24
	1380 1725 2070 m <sup>3</sup> /h 550 1101	51 54 55 63 44 52	48 51 53 53 125 43 47	44 46 50 52 250 39 47	30 34 39 40 500 39 32	27 32 33 1K 23 29	24 28 32 33 2K	27 30 30 4K	21 24 28 29 8K 16 19	28 31 34 dB(A) 24 30
	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651	51 54 55 63 44 52 55	48 51 53 125 43 47 53	44 46 50 52 250 39 47 50	30 34 39 40 500 39 32 35	27 32 33 1K 23 29 31	24 28 32 33 2K 21 25 27	27 30 30 4K 20 25 26	21 24 28 29 8K 16 19 21	28 31 36 dB(A) 24 30 34
	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202	51 54 55 63 44 52 55 57	48 51 53 125 43 47 53 57	44 46 50 250 39 47 50 54	30 34 39 40 500 39 32 35 39	27 32 33 1K 23 29 31 34	24 28 32 33 2K 21 25 27 30	27 30 30 4K 20 25 26 28	21 24 28 29 8K 16 19 21 23	28 31 34 dB(A) 24 30 34 38
SDH-K 315 SDH	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752	51 55 63 44 52 55 57 59	48 51 53 125 43 47 53 57 60	44 50 52 250 39 47 50 54 57	30 34 39 40 500 39 32 35 39 43	27 32 33 1K 23 29 31 34 38	24 28 32 33 2K 21 25 27 30 34	27 30 4K 20 25 26 28 31	21 24 29 8K 16 19 21 23 25	28 31 34 dB(A) 24 30 34 38 41
	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303	51 54 55 63 44 52 55 57 59 61	48 51 53 125 43 47 53 57 60 61	44 46 50 52 250 39 47 50 54 57 60	30 34 39 40 500 39 32 35 39 43 45	27 32 33 1K 23 29 31 34 38 41	24 28 32 33 2K 21 25 27 30 34 35	27 30 4K 20 25 26 28 31 33	21 24 28 29 8K 16 19 21 23 25 26	28 31 34 36 dB(A) 24 30 34 38 41 43
	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h	51 54 55 63 44 52 55 57 59 61 63	48 51 53 125 43 47 53 57 60 61 125	44 46 50 250 39 47 50 50 54 57 60 250	30 34 39 40 500 39 32 35 39 43 43 45 500	27 32 33 1K 23 29 31 34 38 41 1K	24 28 32 33 2K 21 25 27 30 34 35 2K	27 30 30 4K 20 25 26 28 31 33 4K	21 24 28 29 8K 16 19 21 23 25 26 8K	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A)
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701	51 54 55 63 44 52 55 57 59 61 63 45	48 51 53 125 43 47 53 57 60 61 125 45	44 46 50 52 250 39 47 50 54 57 60 250 39 39	30 34 39 40 500 39 32 35 39 43 45 500 30	27 32 33 1K 23 29 31 34 38 41 1K 24	24 28 32 33 2K 21 25 27 30 34 35 2K 22	27 30 30 4K 20 25 26 28 31 33 4K 22	21 24 28 29 8K 16 19 21 23 25 26 8K 18	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>7</sup> /h 701 1401	51 54 55 63 44 52 55 57 59 61 63 63 45 52	48 51 53 125 43 47 53 57 60 61 125 45 49	44 46 50 250 39 47 50 54 57 60 250 39 46	30 34 39 40 500 39 32 35 39 43 45 500 30 34	27 32 33 1K 23 29 31 34 38 41 1K 24 31	24 28 32 2K 21 25 27 30 34 35 2K 22 27	27 30 30 4K 20 25 26 28 31 33 4K 22 25	21 24 28 29 8K 16 19 21 23 25 26 8K 18 21	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102	51 55 63 44 52 55 57 59 61 63 45 52 52 56	48 51 53 125 43 47 53 57 60 61 125 45 49 54	44 46 50 52 250 39 47 50 54 57 60 250 39 46 51	30 34 39 40 500 39 32 35 39 43 45 500 30 30 34 35	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26	21 24 28 29 8K 16 19 21 23 25 26 8K 18 21 23	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31 34
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803	51 55 63 44 52 55 57 57 61 63 45 52 52 56 58	48 51 53 125 43 47 53 57 60 61 125 45 49 54 57	44 46 50 52 250 39 47 50 54 57 60 250 39 46 51 55	30 34 39 40 500 39 32 35 39 43 45 500 30 34 35 38	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 34	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26	21 24 28 29 8K 16 19 21 23 25 26 8K 18 21 23	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31 34 38
	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503	51 55 63 44 52 55 57 59 61 63 45 52 55 52 55 58 60	48 51 53 125 43 47 53 57 60 61 125 45 49 54 57 57 60	44 46 50 52 250 39 47 50 54 57 60 250 250 39 46 51 55 58	30 34 39 40 500 39 32 35 39 43 45 500 30 34 35 38 43	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 34 38	24 28 32 21 25 27 30 34 35 2K 22 27 28 31 35	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32	21 24 28 29 8K 16 19 21 23 25 26 8K 18 21 23 25 26 25 26	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31 34 38 41
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204	51 55 63 44 52 55 57 59 61 63 45 52 56 58 58 60 62	48 51 53 125 43 47 53 57 60 61 125 45 49 54 57 60 62	44 46 50 250 39 47 50 54 57 60 250 39 46 51 55 58 60	30 34 39 40 500 39 32 35 39 43 45 500 30 34 35 38 43 45	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 34 38 41	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 37	27 30 30 25 26 28 31 33 4K 22 25 26 28 22 25 26 28 32 35	21 24 28 8K 16 19 21 23 25 26 8K 18 21 23 25 26 25 26 27	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31 34 38 41 38 41 43
SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h	51 55 63 44 52 55 57 61 63 45 52 52 56 58 60 62 63	48 51 53 125 43 47 53 57 60 61 125 49 54 57 60 62 125	44 46 50 250 39 47 50 57 60 250 39 46 51 55 55 58 60 250	30 34 39 40 39 32 35 39 43 45 500 30 34 35 38 43 45 500	27 32 33 1K 23 31 34 38 41 1K 24 31 31 34 38 41 1K	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 37 2K	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 35 4K	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 26 25 26 27 8K	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 38 41 43 41 43 dB(A)
SDH-K 355 SDH-K 315	1380 1725 2070 m <sup>3</sup> /h 550 1101 1651 2202 2752 3303 m <sup>3</sup> /h 701 1401 2102 2803 3503 4204 m <sup>3</sup> /h 8913	51 54 55 63 44 52 55 57 61 63 45 52 52 52 52 58 60 62 63 46	48           51           53           125           43           47           53           57           60           61           55           43           57           60           57           60           62           125           47	44 46 50 52 250 39 47 50 57 60 250 39 46 55 55 55 58 60 250 250 40	30 34 39 40 500 39 32 35 39 43 45 500 34 35 38 43 43 43 43 500 31	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 34 38 41 1K 26	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 35 37 2K 22 37 28	27 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 35 32 35 4K 24	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 26 23 25 26 27 8K 20	28 31 34 36 dB(A) 24 30 34 38 41 43 34 38 41 43 34 43 34 43 25 31 43 25 34 34 25 34 34 38 34 38 38 41 43 38 41 38 38 38 38 38 38 38 38 38 38 38 38 38
SDH-K 355 SDH-K 315	1380 1725 2070 m'/h 550 1101 1651 2202 2752 3303 m'/h 701 1401 2102 2803 3503 3503 3503 4204 m'/h 8913 1783	51 55 63 44 52 55 57 59 61 63 45 52 56 58 60 60 62 63 46 53	48           51           53           125           43           47           53           57           60           61           55           43           57           60           61           57           60           62           125           47           52	44 46 50 52 250 39 47 50 57 50 50 50 50 55 55 58 60 250 250 40 40 40	30 34 39 500 39 42 35 33 43 43 30 30 34 33 38 43 43 500 31 37	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 34 38 41 41 1K 26 33	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 37 37 2K 23 30	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 32 35 4K 24 26	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 25 26 27 8K 20 24	28 31 34 36 dB(A) 24 38 41 43 38 41 43 34 38 41 43 34 43 44 43 25 31 25 31 25 31 34 38 41 43 38 41 43 38 41 43 38 41 43 38 41 43 38 41 43 41 38 41 41 38 41 41 38 41 41 41 41 41 41 41 41 41 41 41 41 41
SDH-K 355 SDH-K 315	1380 1725 2070 m'/h 550 1101 1651 1651 2202 2752 3303 m'/h 701 1401 2102 2803 3503 4204 m'/h 8913 1783 2674	51 55 63 44 52 55 57 61 63 45 58 60 62 63 63 63 63 53 55 7	48 51 53 125 43 47 53 57 60 61 125 49 54 57 60 62 54 57 60 62 255	44 46 50 52 250 39 47 50 54 57 60 250 250 39 46 51 55 58 60 250 40 40 46 53	30 34 39 500 39 32 35 39 43 43 43 43 30 30 30 34 35 38 43 46 500 31 37 35	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 34 38 41 41 1K 26 33	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 37 2K 23 37 2 23 30 30	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 32 35 4K 24 26	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 25 26 27 8K 20 24	28 31 34 36 dB(A) 24 30 34 43 dB(A) 25 31 34 38 41 43 38 41 43 38 41 25 31 34 38 41 25 31 34 32 36
SDH-K 355 SDH-K 315	1380 1725 2070 m'/h 550 1101 1651 2202 2752 3303 m'/h 701 1401 2102 2803 3503 4204 m'/h 8913 1783 2674 3565	51 54 55 63 44 52 55 7 59 61 63 45 52 52 52 52 52 52 52 52 52 52 52 52 53 52 53 53 57 53 57 57 53	48           51           53           125           43           47           53           60           61           125           43           45           49           54           57           60           62           125           43           57           60           52           55           58	44 46 50 52 250 39 47 55 57 60 250 250 39 46 51 55 58 60 250 250 40 40 46 53 55 55	30 34 39 500 39 42 35 33 43 43 30 30 34 33 38 43 43 500 31 37	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 31 34 38 41 1K 26 33 22 35	24 28 32 2K 21 25 27 30 34 35 2K 22 27 27 27 27 27 28 31 35 37 2K 23 30 30 30 33	27 30 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 32 35 4K 24 26	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 25 26 27 8K 20 24	28 31 34 36 dB(A) 24 30 34 43 dB(A) 25 31 34 38 41 43 38 41 43 38 41 25 31 34 38 41 25 31 34 38 32 32 32 32 33
SDH-K 315	1380 1725 2070 m'/h 550 1101 1651 1651 2202 2752 3303 m'/h 701 1401 2102 2803 3503 4204 m'/h 8913 1783 2674	51 55 63 44 52 55 57 61 63 45 58 60 62 63 63 63 63 53 55 7	48 51 53 125 43 47 53 57 60 61 125 49 54 57 60 62 54 57 60 62 255	44 46 50 52 250 39 47 50 54 57 60 250 250 39 46 51 55 58 60 250 40 40 46 53	30 34 39 500 39 32 35 39 43 43 43 43 30 30 30 34 35 38 43 46 500 31 37 35	27 32 33 1K 23 29 31 34 38 41 1K 24 31 31 31 34 38 41 1K 26	24 28 32 2K 21 25 27 30 34 35 2K 22 27 28 31 35 37 2K 23 37 2 23 30 30	27 30 4K 20 25 26 28 31 33 4K 22 25 26 28 32 35 32 35 4K 24	21 24 28 8K 16 19 21 23 25 26 8K 21 23 25 26 23 25 26 27 8K 20	28 31 34 36 dB(A) 24 30 34 38 41 43 dB(A) 25 31 34 38 41 43 38 41 43 38 41 25 31 34 38 41 25 31 34 32 36







	m³/h	53	106	160	213	266	319
SDH-K 100	Watt	590	920	1190	1360	1570	1720
	Ра	0,2	0,8	1,8	3,2	5	7,2
	m³/h	84	168	253	337	421	505
SDH-K 125	Watt	790	1240	1560	1920	2065	2190
	Ра	0,3	1,2	2,7	4,8	7,5	10,8
	m³/h	139	279	418	558	697	836
SDH-K 160	Watt	1300	1860	2160	2580	2740	2920
	Pa	0,3	1,2	2,7	4,8	7,5	10,8
	m³/h	219	439	658	878	1097	1317
SDH-K 200	Watt	1410	2125	2590	2940	3190	3400
	Pa	0,32	1,3	3	5,3	8,3	12
	m³/h	345	690	1035	1380	1725	2070
SDH-K 250	Watt	1830	2530	2940	3360	3690	3950
	Pa	0,6	2,4	5,4	9,6	15	21,6
	m³/h	550	1101	1651	2202	2752	3303
SDH-K 315	Watt	2270	2910	3410	3910	4210	4440
	Pa	0,8	3,2	7,2	12,8	20	28,8
	m³/h	701	1401	2102	2803	3503	4204
SDH-K 355	Watt	2570	3800	4110	4360	4950	4220
	Pa	1,2	4,8	10,8	19,2	30	43,2
	m³/h	891	1783	2674	3565	4456	5350
SDH-K 400	Watt	2520	3960	4240	4860	5025	5440
	Pa	1,1	4,4	9,9	17,6	27,5	39,6

#### Heating Coil Capacities

The above capacities are for AT<sub>1</sub> =Tsu inlet -Toda=40°C temperature difference. For different capacities use the following formul: Q<sub>2</sub>=Q<sub>1</sub>(40/AT<sub>2</sub>)

Heating Coils

IDH-K model variable air flow terminal units can be equipped with hot water heating coils if desired. The heating coils are installed with flange connections immediately to the outlet of the IDH-K, or before a silencer and/or plenum cell if these elements are used.

01-Heating coils are manufactured with copper pipes and aluminum fins in PN 16 quality. 02-The standard application is a single row heating coil and its dimensions and capacity tables are given below.

03-Two-row heating coil can be made upon request. Please consult the company for this application.

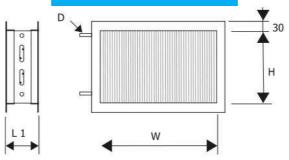






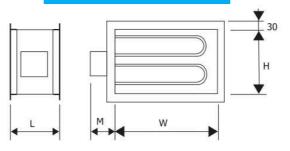
# Variable Air Flow Units





MODEL	w	н	L	D
WH - 100	325	225	90	<sup>1</sup> / <sub>2</sub> "
WH - 125	325	225	90	<sup>1</sup> / <sub>2</sub> "
WH - 160	360	260	90	<sup>1</sup> / <sub>2</sub> "
WH - 200	400	300	90	<sup>1</sup> / <sub>2</sub> "
WH - 250	450	350	90	<sup>1</sup> / <sub>2</sub> ″
WH - 315	515	415	90	<sup>1</sup> / <sub>2</sub> "
WH - 355	555	455	90	<sup>1</sup> / <sub>2</sub> ″
WH - 400	650	500	90	<sup>1</sup> / <sub>2</sub> "

### Hot Water Coil Dimensions



MODEL	w	н	L	Q (Kw)
WH - 100	325	225	200	1 X 2 kW
WH - 125	325	225	200	1 X 2 kW
WH - 160	360	260	200	1 X 3 kW
WH - 200	400	300	200	2 X 2 kW
WH - 250	450	350	200	2 X 3 kW
WH - 315	515	415	200	2 X 3 kW
WH - 355	555	455	200	2 X 3 kW
WH - 400	650	500	200	3 X 3 kW







#### IDH-D Model



VAV air conditioning and ventilation systems are the most sensitive and economical solutions of modern air conditioning technologies. In these systems, the temperature of the space is provided by proportionally controlling the amount of blown and exhausted air instead of controlling the temperature of the blown air. In this way, it provides economy in both heat consumption and air flow, thus achieving lower operating costs.

VAV Units are calibrated in the factory before being put into operation.

This ensures that maximum and minimum air flow rates are precisely balanced. VAV systems are suitable for high speed and high pressure duct systems.

As a result, less space is allocated for ventilation and air conditioning systems and a reduction in construction costs is achieved.

SDH-D units are designed and manufactured to meet the need for rectangular section VAV (Variable Air Flow) units due to space limitations.

It has a higher air flow capacity than the round inlet SDH-K units.

SDH-D units are suitable for heating and cooling with single duct VAV applications and also for CAV (Constant Air Flow) systems under changing conditions.

Àn example of this is HEPA filter applications that require constant air flow under variable pressure.

SDH-D units have air velocity measuring sensor elements that comply with ASHRAE documentation.

These sensors measure total pressure and static pressure and the air flow is determined electronically from their difference. The units are equipped with double-thickness and multi-wing leak-proof flow control dampers.

SDH-D units are produced in two main types. These models SDH-DI have an insulated body, while SDH-DO is uninsulated.







#### Dimensions

Sezer IDH-D model rectangular section VAV terminal units have a wide range of models and meet all kinds of technical demands. Requests other than the dimensions specified below can be produced as special production.

Width		v		e	15.	He	ight					-
#104	200	250	300	350	400	450	500	600	700	800	900	1000
200	•											
250	•	•										
300	•	•	•									
350	•	•	•	•								
400	•	•	•	•	•							
450	•	•	•	•	•	•						
500	•	•	•	•	•	•	•					
550		•	•	•	•	٠	•					
600			•	•	•	•	•	•				
650			•	•	•	•	•	•				
700			•	•	•	•	•	•	•			
800				•	•	•	•	•	•	•		
900					•	•	•	•	•	•	•	
1000					•	•	•	•	•	•	•	•

The nominal flow rates of SDH-D units are calibrated at the factory and are based on an air inlet velocity of 10 m/s and the air coming from the main control device.

Corresponds to a 10 VDC control signal. It is not recommended to use these units at input speeds above 10 m/s.

The minimum air flow rate is related to the sensitivity of the pitot tube and the electronic measuring unit. The sensitive measuring capabilities of these measuring devices can go down to 2.3 Pa differential pressure. This corresponds to an air inlet velocity of approximately 2 m/s. Similarly, minimum speed applications below this velocity are not recommended.

The minimum air flow is calibrated in the factory and corresponds to a 2 VDC control signal input. Therefore, in places where BMS or DDC control systems are used, it is possible to set different flow rates by limiting the input control signal to different values between 2 and 10 VDC. Upon request, the devices can be calibrated in the factory other than the flow rates given above, provided that they remain between the above values. In this case, the 10 VDC setting can be calibrated equal to the customer's Vma. demand. In this case, 10 VDC corresponds to the maximum flow rate and 2 VDC corresponds to the minimum flow rate.

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### Capacity Tables

Width						Н	eight					
	200	250	300	350	400	450	500	600	700	800	900	1000
200	288											
250	360	450										
300	432	540	648									
350	504	630	756	882								
400	576	720	864	1008	1152							
450	648	810	972	1134	1296	1458						
500	720	900	1080	1260	1440	1620	1800					
550		990	1188	1386	1584	1782	1980					ļ
600			1296	1512	1728	1944	2160	2592				j
650			1404	1638	1872	2106	2340	2808				
700			1512	1764	2016	2268	2520	3024	3528			
800				2016	2304	2592	2880	3456	4032	4608		
900					2592	2916	3240	3888	4536	5184	5832	ĺ
1000					2880	3240	3600	4320	5040	5760	6480	7200
/=4 m/	s											
Width						H	eight					
200223-02	200	250	300	350	400	450	500	600	700	800	900	100
200	576	LANC N	<u> </u>									<u> </u>
250	720	900										
300	864	1080	1296									<u> </u>
350	1008	1260	1512	1764	6.04280.00			<u> </u>				<u> </u>
400	1152	1440	1728	2016	2304	CONTRACT.					<u> </u>	<u> </u>
450	1296	1620	1944	2268	2592	2916						<u> </u>
500	1440	1800	2160	2520	2880	3240	3600					
550	2	1980	2376	2772	3168	3564	3960	1-224-222				
600			2592	3024	3456	3888	4320	5184				
650	-		2808	3276	3744	4212	4680	5616				
			3024	3528	4032	4536	5040	6048	7056			
700				1000	4000	5184	5760	6912	8064	9216	1	
700 800				4032	4608	5104	3700	0312	0001	5210		
				4032	4608 5184	5832	6480	7776	9072	10368	11664	





## Capacity Tables

Width						Heigh	t					
	200	250	300	350	400	450	500	600	700	800	900	1000
200	864											
250	1080	1350										
300	1296	1620	1944									
350	1512	1890	2268	2646								
400	1728	2160	2592	3024	4374							
450	1944	2430	2916	3402	3888	4374						
500	2160	2700	3240	3780	4320	4860	7776					
550		2970	3564	4158	4752	5346	5940					
600			3888	4536	5184	5832	6480	7776				
650			4212	4914	5616	6318	7560	8424				
700			4536	5292	6048	6804	7560	9072	10584			
800				6048	6912	7776	8640	10368	12096	13824		
900					776	8748	9720	11664	13608	15552	17496	
1000					8640	9720	10800	12960	15120	17280	19440	21600

V=8 m/s

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Width						Height						
	200	250	300	350	400	450	500	600	700	800	900	1000
200	1152											
250	1440	1800										
300	1728	2160	2592									
350	2016	2520	3024	3528								
400	2304	2880	3456	4032	4508							
450	2592	3240	3888	4536	5184	5832						
500	2880	3600	4320	5040	5760	6480	7200					
550		3960	4752	5544	6336	6968	7920					
600	7		5184	6048	6904	7776	8640	10368				
650			5616	6552	7488	8424	9360	11232				
700			6048	7056	8064	9072	10080	12096	14112			
800				8064	9216	10368	11520	13824	16128	18432		
900					10368	11664	12960	15552	18144	20736	23328	
1000				10	11520	12960	14400	17280	20160	23040	25920	28800





# **Square Section VAV Terminal Units**

## Capacity Tables

Width					ŀ	leight						
	200	250	300	350	400	450	500	600	700	800	900	1000
200	1440											
250	1800	2250										
300	2160	2700	3240									
350	2520	3150	3780	4410								
400	2880	3600	4320	5040	5760							
450	3240	4050	4860	5670	6480	7290						
500	3600	4500	5400	6300	7200	8100	9000					
550		4950	5940	6930	7920	8710	9900					
600			6480	7560	8630	9720	10800	12960				
650			7020	8190	9360	10530	11700	14040				
700			7560	8820	10080	11340	12600	15120	17640			
800				10080	11520	12960	14400	17280	20160	23040		
900					12960	14580	16200	19440	22680	25920	29160	
1000					14400	16200	18000	21600	25200	28800	32400	36000

### Voice Levels

Model/Alan	Air inlet speed		Blowing	side (dB)		Re	flected to th	e environme	nt (dB)
in a dam dam	for most spoore	125Pa	250Pa	500Pa	750Pa	125Pa	250Pa	500Pa	750Pa
	2 m/s	22	26	31	34			21	24
500x400	4	32	37	41	44	22	27	32	35
0,20m2	6	38	43	48	50	28	33	38	41
0,20112	8	42	47	52	55	32	37	43	46
1 I. I. I.	10	45	50	55	58	35	41	46	50

Model/Alan	Air inlet speed		Blowing	side (dB)			Reflected to	the environn	nent (dB)
	All files speed	125Pa	250Pa	500Pa	750Pa	125Pa	250Pa	500Pa	750Pa
	2 m/s	22	26	31	34				
500x400	4	32	37	41	44		23	28	31
0,20m2	6	38	43	48	50	24	29	34	37
oycome	8	42	47	52	55	28	33	39	42
/	10	45	50	55	58	31	37	42	46

L		Bel	ow 200	β			Co	rrecti	on val	1145			the							
m2	0,03	0,04	0,05	0,06	0,07	0,08	0,10	0,12	0,14	0,16	0,18	0,02	0,20	0,25	0,30	0,40	0,50	0,60	0,80	1.00
dB	-8	-8	-7	-6	-5	-5	-4	-3	-2	-1	-1	0	1	2	3	4	5	6	7	8





#### Automatic Control - 1

SDH-D model variable air flow terminal units are equipped with microprocessor servomotors produced for VAV applications.

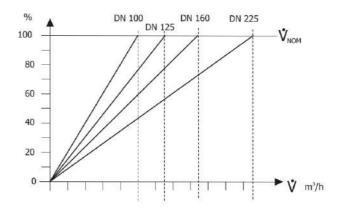
These units control the air flow rate regardless of the pressure in the duct.

In SDH-D model VAV devices, the difference between the total pressure and static pressure of the air at the inlet is measured with pitot tubes in accordance with ASHRAE terminology and this measurement value is transmitted to the electronic control center.

Likewise, there are at least 12 total pressure measuring points in the total pressure station.

Similarly, there are minimum 12 measuring points in the static pressure measuring station. The differential pressure difference between the averages of the values measured at these points is dynamically sent to the processor unit. The processor compares this value with the signals from the BMS or DDC main control system and decides

whether to increase or decrease the air flow rate.



The nominal air flow rates of all SDH-D units are calibrated at the factory as shown in the figure above.

This flow rate corresponds to the maximum flow rate of the device.

Additionally, units can be calibrated for maximum and minimum flow rates according to project conditions.

This calibration process is carried out with the help of computers in special laboratories.

Control elements operate with 0-10 VDC or 2-10 VDC proportional control signals. In case of operation with 0-10 VDC, 10 VDC control signal corresponds to maximum capacity and 0 VDC corresponds to fully closed position.

In 2-10 VDC operating mode, 2 VDC corresponds to the minimum flow rate. 0 VDC is the closed position.

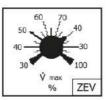
As seen in the figure below, it is also possible to operate SDH-Units automatically and manually. This is done by means of a multiple relay or rotary switch.

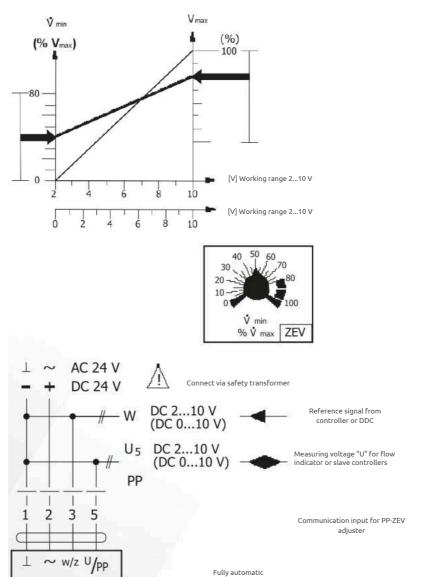






Automatic Control - 2





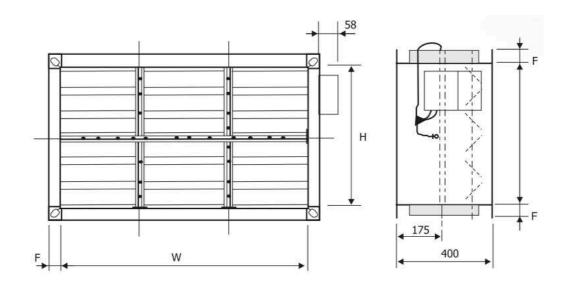
working condition







Dimensions



W: Width (See Order Example) H: Height (See Order Example)

F: Flange height up to W=400mm F=25mm, W=400mm, F=35mm. Insulation: 25mm glass wool covered with galvanized sheet metal







**IDH-Y** Model



VAV air conditioning and ventilation systems are the most sensitive and economical solutions of modern air conditioning technologies. In these systems, the temperature of the space is provided by proportionally controlling the amount of blown and exhausted air instead of controlling the temperature of the blown air. In this way, it provides economy in both heat consumption and air flow, thus achieving lower operating costs.

VAV units are calibrated at the factory before being put into operation to determine their nominal flow rates. Maximum (Vmax) and minimum (Vmin) flow rates are fixed at the factory with computerized calibration devices to ensure precise balancing of air flow rates in the desired operating mode. VAV systems are suitable for high speed and high pressure duct systems. As a result, less space is allocated

for ventilation and air conditioning systems and a reduction in construction costs is achieved.

SDH-Y Units are designed to provide the most economical solutions in applications where accessories such as plenum cell heating coil, silencer etc. are not required. SDH-Y units are designed to provide heating and cooling with single channel VAV applications and additionally CAV (Constant Air Flow) systems under changing conditions.

#### They are also suitable devices for.

An example of this is HEPA filtered applications that require constant air flow under changing pressure. SDH-Y Units have air velocity measuring sensor elements that comply with ASHRAE documentation. These sensors measure total pressure and static pressure and the air flow is determined electronically from the difference between them. The units are equipped with double-thick and single-wing leak-proof flow control dampers. Thanks to the neoprene seal around it, it ensures leak-tightness at the time of full closure. SDH-Y Units are produced in two main types.

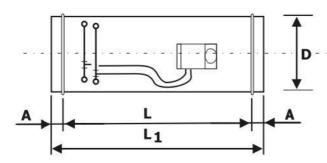
SDH-Y has an insulated body, while SDH-YO is uninsulated. Insulated models are double-walled and insulated with 25 mm glass wool.

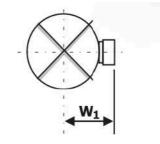




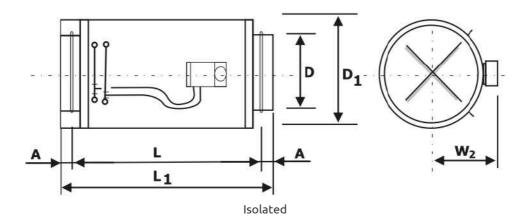


### Dimensions









MODEL	D	D1	L	L1	Α	W1	W2
SDH-Y 100	100	150	480	400	40	170	220
SDH-Y 125	120	170	480	400	40	195	245
SDH-Y 160	155	205	530	450	40	230	280
SDH-Y 200	195	245	580	500	40	270	320
SDH-Y 250	245	295	580	500	40	320	370
SDH-Y 315	310	360	630	550	40	385	435
SDH-Y 355	350	400	630	550	40	425	475
SDH-Y 400	395	445	680	600	40	470	520
SDH-Y 450	445	495	730	650	40	520	570
SDH-Y 500	495	545	780	700	40	570	620

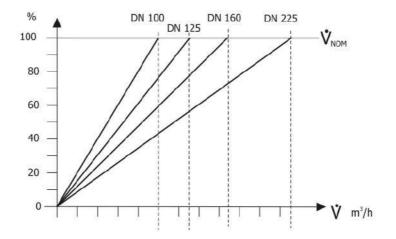




#### Automatic Control

SDH-Y model variable air flow terminal units are equipped with compact control units produced for VAV applications. These units control the air flow rate independently of the pressure in the duct. In SDH-Y model VAV devices, the difference between the total pressure and static pressure of the air in the inlet is measured with pitot tubes in accordance with ASHRAE terminology and this measurement value is transmitted to the electronic control center. Similarly, there are a minimum of 12 total pressure measuring points in the total pressure station.

Similarly, there are minimum 12 measuring points in the static pressure measuring station. The differential pressure difference between the averages of the values measured at these points is dynamically sent to the processor unit. The processor compares this value with the signals from the BMS or DDC main control system and decides whether to increase or decrease the air flow rate.



All SDH-Y units are factory calibrated for nominal air flow rates as shown in the figure above. This flow rate corresponds to the maximum flow rate of the device. Additionally, units can be calibrated for maximum and minimum flow rates according to project conditions. This calibration process is done with the help of a computer in a special laboratory.

The control elements operate with 0-10 VDC or 2-10 VDC proportional control signals. In the case of operation with 0-10 VDC, 10 VDC control signal corresponds to maximum capacity, and 0 VDC corresponds to minimum capacity. In the 2-10 VDC control signal, 2 VDC is the minimum capacity. 0 VDC corresponds to the fully closed position.

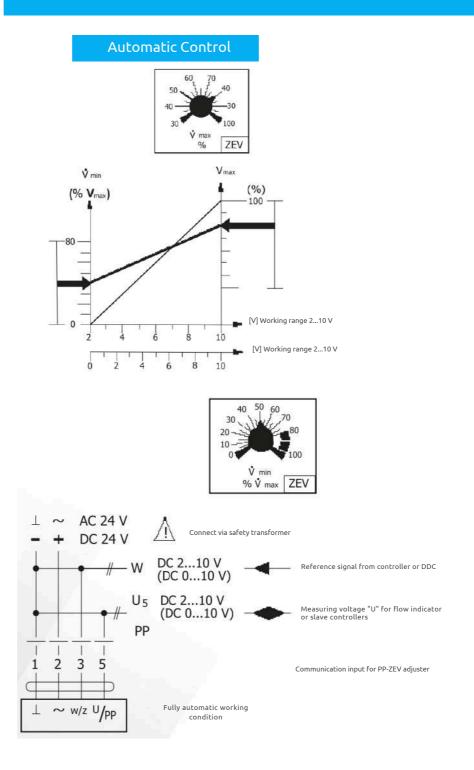
As seen in the figure below, it is also possible to operate SDH-Y units automatically or manually. This is done by means of a multiple relay or rotary switch.

















### Voice Levels

#### P = 150 Pa

#### P = 250 Pa

#### P = 500 Pa

|                               | m <sup>3</sup> /h   | 63  | 125   | 250  | 500   | 1K   | 2K   
   | 4K  
  | 8K   | dB(A)   |                               | m <sup>3</sup> /h   
   | 63  | 125  | 250   | 500   | 1K   | 2K   | 4K   
  | 8K  | dB(A)  |                     | m <sup>3</sup> /h   | 63   | 125   | 250   | 500  | 1K   | 2K   
  | 4K   | 8K   | dB(A)  |
|-------------------------------|---|---|---|--|---|--
--
--|--
--|---|-------------------------------
---|---|--|---|---|--|--
---|---|--|---------------------|---|--|---|---|--|--
---|--|--|--|
|                               |   | 33  | 29  | 26   | 17  | < 15   | < 15   
   | < 15  
  | < 15   | < 15  |                               | 53  
   | 35  | 31   | 27  | 19  | 17   | 15   | < 15   
  | < 15  | < 15   | 1                   | 53  | 38   | 33  | 29  | 22   | 21   | 18   
  | 15   | < 15   | 17   |
| 100                           | 106   | 38  | 31  | 27   | 19  | 15   | < 15   
   | < 15  
  | < 15   | < 15  | 100                           | 106   
   | 41  | 33   | 29  | 21  | 18   | 16   | 15   
  | < 15  | 16   | SDH-V 100           | 106   | 44   | 35  | 33  | 25   | 22   | 19   
  | 17   | 15   | 20   |
|                               |   | and the second second   |   |  |   |  |  
   |   
  |  | 17  | 12                            |   
   | 41  | Concession of the local division of the loca |   |   |  |  | The rest of the local division of
the local division of the local |   |  | 12                  |   | dimension of the local diversion of the local |   |   |  |  |  
  |  |  | 20   |
| 13                            | 160   | 40  | 38  | 20   | 20  | 16   | 18   
   | 15  
  | < 15   |   | Ξ                             | 160   
   | 43  | 40   | 33  | 22  | 19   | 20   | 17   
  | 15  | 20   | 11                  | 160   | 46   | 42  | 35  | 26   | 23   | 22   
  | 18   | 16   |  |
| V-HOS                         | 213   | 43  | 42  | 34   | 27  | 21   | 23   
   | 19  
  | 16   | 22  | Y-HOS                         | 213   
   | 45  | 43   | 36  | 28  | 22   | 25   | 20   
  | 16  | 23   | 1 ē                 | 213   | 48   | 45  | 38  | 30   | 25   | 27   
  | 21   | 18   | 25   |
| 10                            | 266   | 50  | 51  | 41   | 30  | 28   | 26   
   | 22  
  | 19   | 28  | S,                            | 266   
   | 53  | 52   | 43  | 33  | 31   | 28   | 23   
  | 20  | 30   | 1 %                 | 266   | 55   | 54  | 44  | 35   | 33   | 32   
  | 24   | 21   | 32   |
|                               | 319   | 53  | 51  | 43   | 32  | 32   | 31   
   | 28  
  | 21   | 31  |                               | 319   
   | 56  | 53   | 50  | 39  | 39   | 34   | 23   
  | 21  | 35   |                     | 319   | 58   | 57  | 47  | 37   | 36   | 36   
  | 26   | 24   | 34   |
|                               | m3/h  | 63  | 125   | 250  | 500   | 1K   | 2K   
   | 4K  
  | 8K   | dB(A)   |                               | m3/H  
   | 63  | 125  | 250   | 500   | 1K   | 2K   | 4K   
  | 8K  | dB(A)  |                     | m <sup>3</sup> /h   | 63   | 125   | 250   | 500  | 1K   | 2K   
  | 4K   | 8K   | dB(A)  |
| 100                           | 84  | 34  | 30  | 26   | 20  | 16   | < 15   
   | < 15  
  | < 15   | < 15  | 5                             | 84  
   | 36  | 31   | 27  | 22  | 18   | 15   | < 15   
  | < 15  | 15   | 0                   | 84  | 38   | 33  | 28  | 23   | 20   | 17   
  | 15   | < 15   | 17   |
| 12                            | 168   | 39  | 34  | 29   | 22  | 18   | 15   
   | < 15  
  | < 15   | 16  | 125                           | 168   
   | 40  | 35   | 29  | 23  | 19   | 16   | 15   
  | < 15  | 17   | 12                  | 168   | 43   | 37  | 31  | 25   | 22   | 17   
  | 16   | < 15   | 19   |
| V-HUS                         | 253   | 43  | 40  | 32   | 23  | 19   | 17   
   | 15  
  | < 15   | 19  | >                             | 263   
   | 45  | 42   | 32  | 25  | 20   | 19   | 16   
  | < 15  | 20   | SDH-V 125           | 263   | 47   | 44  | 35  | 27   | 23   | 18   
  | 18   | 16   | 23   |
| E                             | 337   | 45  | 44  | 36   | 28  | 22   | 20   
   | 18  
  | 16   | 23  | Y-HOS                         | 337   
   | 46  | 45   | 38  | 33  | 23   | 24   | 19   
  | 17  | 25   | E                   | 337   | 48   | 47  | 40  | 34   | 25   | 20   
  | 21   | 20   | 27   |
| 0                             | 421   | 49  | 47  | 39   | 32  | 30   | 28   
   | 22  
  | 19   | 27  | S                             | 421   
   | 50  | 49   | 40  | 36  | 31   | 29   | 23   
  | 22  | 29   | S                   | 421   | 52   | 51  | 43  | 39   | 34   | 32   
  | 26   | 24   | 32   |
| 0.000                         | 605   | 54  | 50  | 41   | 35  | 31   | 29   
   | 15  
  | 21   | 31  | - 235                         | 505   
   | 57  | 54   | 47  | 42  | 39   | 30   | 27   
  | 23  | 34   | 1000                | 505   | 55   | 53  | 47  | 45   | 39   | 35   
  | 28   | 25   | 34   |
| $\vdash$                      | m <sup>3</sup> /h   | 63  | 125   | 250  | 500   | 1K   | 2K   
   | 4K  
  |  | dB(A)   |                               | m3/1  
   | 63  | 125  | 250   | 500   | 1K   | 2K   | 4K   
  | 8K  | dB(A)  | -                   | m <sup>3</sup> /h   | 63   | 125   | 250   | 500  | 1K   | 2K   
  | 4K   | 8K   | dB(A)  |
| 1                             |   | 41  | 37  | 30   | 22  | < 15   |  
   | < 15  
  | 15   | 16  |                               | 139   
   | _   | _  | 32  | 25  | 15   | < 15   | 40   
  | 15  | 19   | I                   | 139   | 44   |   | _   | 25   |  | _  
  | _  | 18   | 21   |
| 160                           | 139   | ALC: NO. OF TAXABLE PARTY.  |   |  | Concession of the local division of the loca  | and the owner of the local division of the l | < 15   
   | Concession of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division of the local division
of the local division of the loca | Concession of the local division of the loca   |   | 160                           |   
   | 42  | 40   | -   | _   |  |  | < 15   
  |   | Concession of the local division of the loca | 13                  | Stational Social Stationed  | _  | 42  | 34  | Name of Street S | 19   | 16   
  | 15   | a second data and  |  |
| 15                            | 279   | 49  | 41  | 35   | 28  | 17   | 15   
   | < 15  
  | 16   | 21  | 12                            | 279   
   | 50  | 44   | 41  | 31  | 18   | 16   | 15   
  | 17  | 25   | 12                  | 279   | 51   | 47  | 42  | 34   | 21   | 18   
  | 16   | 21   | 27   |
| V-HOS                         | 418   | 55  | 47  | 41   | 34  | 23   | 17   
   | 16  
  | 18   | 27  | SDH-Y                         | 418   
   | 56  | 48   | 45  | 36  | 24   | 18   | 17   
  | 19  | 30   | SDH-V 160           | 418   | 57   | 49  | 47  | 38   | 26   | 19   
  | 18   | 22   | 31   |
|                               | 558   | 57  | 51  | 44   | 36  | 27   | 19   
   | 17  
  | 19   | 30  | ā                             | 558   
   | 59  | 53   | 47  | 38  | 28   | 20   | 18   
  | 21  | 33   | ā                   | 558   | 61   | 53  | 48  | 40   | 29   | 22   
  | 20   | 22   | 34   |
| 0                             | 697   | 59  | 51  | 44   | 38  | 29   | 24   
   | 20  
  | 20   | 31  | S                             | 697   
   | 61  | 54   | 48  | 43  | 31   | 26   | 22   
  | 22  | 34   | S                   | 697   | 62   | 55  | 50  | 42   | 32   | 27   
  | 22   | 23   | 35   |
|                               | 836   | 62  | 56  | 49   | 41  | 30   | 26   
   | 24  
  | 22   | 33  |                               | 836   
   | 69  | 59   | 49  | 43  | 33   | 28   | 24   
  | 21  | 16   |                     | 836   | 64   | 57  | 51  | 44   | 35   | 30   
  | 24   | 24   | 37   |
|                               | m³/h  | 63  | 125   | 250  | 500   | 1K   | 2K   
   | 4K  
  | 8K   | dB(A)   |                               | m³/ł  
   | 63  | 125  | 250   | 500   | 1K   | 2K   | 4K   
  | 8K  | dB(A)  |                     | m <sup>3</sup> /h   | 63   | 125   | 250   | 500  | 1K   | 2K   
  | 4K   | 8K   | dB(A)  |
|                               | 219   | 40  | 34  | 30   | 16  | < 15   | < 15   
   | < 15  
  | < 15   | 14  | 0                             | 219   
   | 42  | 37   | 34  | 20  | 15   | < 15   | < 15   
  | 15  | 18   |                     | 219   | 43   | 39  | 35  | 22   | 16   | < 15   
  | < 15   | < 15   | 19   |
| 2                             | 439   | 42  | 35  | 33   | 23  | 16   | < 15   
   | 16  
  | < 15   | 17  | SDH-Y 200                     | 439   
   | 43  | 36   | 34  | 24  | 17   | 15   | 15   
  | 16  | 19   | SDH-Y 200           | 439   | 45   | 39  | 37  | 27   | 20   | 16   
  | 21   | 19   | 22   |
| >                             | 658   | 43  | 36  | 35   | 24  | 18   | 16   
   | 21  
  | 16   | 20  | >                             | 658   
   | 44  | 38   | 37  | 26  | 18   | 20   | 23   
  | 20  | 22   | >                   | 658   | 50   | 47  | 42  | 32   | 27   | 21   
  | 26   | 21   | 28   |
|                               |   | 48  | 38  | 37   | 27  | 22   | 22   
   | 22  
  | 18   | 23  | Ξ±                            | 878   
   | 50  | 40   | 40  | 30  | 28   | 25   | 24   
  | 21  | 26   | 1±                  | 878   | 53   | 49  | 44  | 36   | 31   | 26   
  | 30   | 22   | 30   |
| HUS                           | 1097  | 51  | 42  | 38   | 29  | 25   | 24   
   | 25  
  | 19   | 25  | S                             | 1097  
   | 53  | 49   | 44  | 33  | 29   | 28   | 27   
  | 22  | 30   | 18                  | 1097  | 56   | 51  | 51  | 34   | 33   | 29   
  | 28   | 23   | 34   |
|                               | 1317  | 56  | 51  | 47   | 46  | 37   | 37   
   | 31  
  | 22   | 28  |                               | 1317  
   | 55  | 51   | 46  | 34  | 30   | 31   | 29   
  | 24  | 32   |                     | 1317  | 58   | 53  | 53  | 36   | 35   | 31   
  | 30   | 24   | 36   |
| +                             | m3/h  | 63  | 125   |  | 500   |  | 2K   
   |   
  |  | dB(A)   | <u> </u>                      | | | | | | |
   | 63  |  |   | _   |  |  |  
  |   | 56   | -                   |   |  |   |   |  |  |  
  |  |  |  |
|                               |   |   |   |  |   |  |  
   |   
  |  |   |                               |   
   |   |  |   | 500   | 11   | 210  | 41   
  | 8K  | dB(A)  |                     | lm <sup>2</sup> /h  | 63   | 1125  | 250   | 500  | 11   | 2K   
  | 46   |  |  |
|                               |   | _   | _   | 250  | _   | 1K   |  
   | 4K  
  | _  |   |                               | m3/h  
   | _   | 35   | 250   | 16  | 1K   | 2K   | 4K   
  | 8K  | dB(A)  |                     | m <sup>3</sup> /h   | 63<br>41   | 125<br>30   | 250   | 10   | 1K   | 2K   
  | 4K   | 8K   | 18<br>18   |
| 02                            | 345   | 33  | 33  | 25   | < 15  | < 15   | < 15   
   | < 15  
  | < 15   | < 15  | 50                            | 345   
   | 37  | 35   | 32  | 16  | < 15   | < 15   | < 15   
  | < 15  | < 15   | 20                  | 345   | 41   | 39  | 35  | 19   | < 15   | < 15   
  | < 15   | < 15   | 18   |
| 1250                          | 345<br>690  | 33<br>39  | 33<br>39  | 25<br>29   | < 15<br>16  | < 15<br>< 15   | < 15<br>< 15   
   | < 15<br>< 15  
  | < 15<br>< 15   | < 15<br>< 15  | Y 250                         | 345<br>690  
   | 37<br>43  | 35<br>42   | 32<br>35  | 16<br>20  | < 15<br>16   | < 15<br>16   | < 15<br>15   
  | < 15<br>< 15  | < 15<br>20   | 1 250               | 345<br>690  | 41<br>46   | 39<br>44  | 35<br>40  | 19<br>25   | < 15<br>19   | < 15<br>20   
  | < 15<br>20   | < 15<br>18   | 18<br>24   |
|                               | 345<br>690<br>1035  | 33<br>39<br>43  | 33<br>39<br>42  | 25<br>29<br>34   | < 15<br>16<br>19  | < 15<br>< 15<br>16   | < 15<br>< 15<br>15   
   | < 15<br>< 15<br>< 15  
  | < 15<br>< 15<br>< 15   | < 15<br>< 15<br>20  | HY 250                        | 345<br>690<br>1035  
   | 37<br>43<br>47  | 35<br>42<br>46   | 32<br>35<br>38  | 16<br>20<br>25  | < 15<br>16<br>18   | < 15<br>16<br>19   | < 15<br>15<br>15   
  | < 15<br>< 15<br>15  | < 15<br>20<br>24   | H-V 250             | 345<br>690<br>1035  | 41<br>46<br>49   | 39<br>44<br>48  | 35<br>40<br>44  | 19<br>25<br>30   | < 15<br>19<br>23   | < 15<br>20<br>24   
  | < 15<br>20<br>24   | < 15<br>18<br>21   | 18<br>24<br>28   |
|                               | 345<br>690<br>1035<br>1380  | 33<br>39<br>43<br>45  | 33<br>39<br>42<br>46  | 25<br>29<br>34<br>36   | < 15<br>16<br>19<br>27  | < 15<br>< 15<br>16<br>20   | < 15<br>< 15<br>15<br>23   
   | < 15<br>< 15<br>< 15<br>18  
  | < 15<br>< 15<br>< 15<br>16   | < 15<br>< 15<br>20<br>25  | SDH-Y 250                     | 345<br>690<br>1035<br>1380  
   | 37<br>43<br>47<br>49  | 35<br>42<br>46<br>48   | 32<br>35<br>38<br>43  | 16<br>20<br>25<br>38  | < 15<br>16<br>18<br>24   | < 15<br>16<br>19<br>25   | < 15<br>15<br>15<br>23   
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| SDH-V 250                     | 345<br>690<br>1035<br>1380<br>1725  | 33<br>39<br>43<br>45<br>47  | 33<br>39<br>42<br>46<br>48  | 25<br>29<br>34<br>36<br>41   | < 15<br>16<br>19<br>27<br>34  | < 15<br>< 15<br>16<br>20<br>25   | < 15<br>< 15<br>15<br>23<br>26   
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| SDHV                          | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h   | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b>   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b>  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b>   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b>  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b>  | < 15<br>< 15<br>15<br>23<br>26<br>32<br><b>2K</b>  
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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b>   | 35<br>42<br>46<br>48<br>51<br>52<br>125  | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b>  | 16<br>20<br>25<br>38<br>36<br>38<br><b>500</b>  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b>  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b>  | < 15<br>15<br>23<br>26<br>28<br><b>4K</b>  
  | < 15<br>< 15<br>15<br>18<br>22  | < 15<br>20<br>24<br>28<br>31<br>33<br><b>dB(A)</b>   | SDH-V 250           | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h   | 41<br>46<br>49<br>51<br>54<br>55<br><b>63</b>  | 39<br>44<br>51<br>53<br>53<br><b>125</b>  | 35<br>40<br>44<br>50<br>52<br>250   | 19<br>25<br>30<br>34<br>39<br>40<br><b>500</b>   | < 15<br>19<br>23<br>27<br>32<br>33<br><b>1K</b>  | < 15<br>20<br>24<br>28<br>32<br>33<br><b>2K</b>  
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| SDHV                          | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h   | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18  | < 15<br>< 15<br>15<br>23<br>26<br>32<br>26<br>32<br>2K<br>16   
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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40   | 35<br>42<br>46<br>48<br>51<br>52<br><b>125</b><br>39   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35  | 16<br>20<br>25<br>38<br>36<br>38<br><b>500</b><br>24  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16   
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| 315 SDH-V                     | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23  | < 15<br>< 15<br>15<br>23<br>26<br>32<br>26<br>32<br>2K<br>16<br>21   
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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43   | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45  | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42  | 16<br>20<br>25<br>38<br>36<br>38<br><b>500</b><br>24<br>27  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18   
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| SDHV                          | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24  | < 15<br>< 15<br>23<br>26<br>32<br><b>2K</b><br>16<br>21<br>22  
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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50   | 35<br>42<br>46<br>51<br>52<br>125<br>39<br>45<br>49  | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46  | 16<br>20<br>25<br>38<br>36<br>38<br><b>500</b><br>24<br>27<br>32  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22   
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| 315 SDH-V                     | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46<br>50  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>44   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27  | < 15<br>< 15<br>23<br>26<br>32<br><b>2K</b><br>16<br>21<br>22<br>23  
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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52   | 35<br>42<br>46<br>51<br>52<br><b>125</b><br>39<br>45<br>49<br>53   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42  | 16<br>20<br>25<br>38<br>36<br>38<br><b>500</b><br>24<br>27<br>32<br>32<br>34  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24   
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| 315 SDH-V                     | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24  | < 15<br>< 15<br>23<br>26<br>32<br><b>2K</b><br>16<br>21<br>22  
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| 315 SDH-V                     | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46<br>50  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>44   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27  | < 15<br>< 15<br>23<br>26<br>32<br><b>2K</b><br>16<br>21<br>22<br>23  
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| 315 SDH-V                     | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46<br>50<br>51  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30<br>32  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29  | < 15<br>< 15<br>23<br>26<br>32<br>26<br>32<br>26<br>21<br>21<br>22<br>23<br>26   
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| SDH-V 315 SDH-V               | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59   | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46<br>50<br>51<br>57  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40  | < 15<br>< 15<br>23<br>26<br>32<br><b>2K</b><br>16<br>21<br>22<br>23<br>26<br>38  
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| SDH-V 315 SDH-V               | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b>  | 33<br>39<br>42<br>46<br>48<br>54<br>125<br>37<br>43<br>46<br>50<br>51<br>57<br>125  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b>   | < 15<br>16<br>19<br>27<br>34<br>41<br>500<br>21<br>25<br>28<br>30<br>32<br>43<br>500  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40<br><b>1K</b>   | < 15<br>< 15<br>23<br>26<br>32<br>2K<br>16<br>21<br>22<br>23<br>26<br>38<br>26<br>38<br>2K   
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  | < 15<br>< 15<br>< 15<br>16<br>20<br>28<br><b>8K</b><br>< 15<br>16<br>17<br>19<br>22<br><b>8K</b><br>< 15   | < 15<br>< 15<br>20<br>25<br>28<br>34<br><b>dB(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br><b>dB(A)</b>  | SDH-Y 315 SDH-Y               | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701  
   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b>  | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45<br>49<br>53<br>54<br>55<br>125   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46<br>49<br>41<br>43<br><b>250</b>  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>35<br>35<br><b>1K</b>   | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br><b>2K</b>   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>4K   
  | < 15<br>< 15<br>15<br>22<br>24<br><b>8K</b><br>< 15<br>17<br>18<br>19<br>21<br>23<br><b>8K</b>  | < 15<br>20<br>24<br>28<br>31<br>33<br><b>dB(A)</b><br>20<br>26<br>30<br>33<br>35<br>37<br><b>dB(A)</b>   | SDH-Y 315           | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h   | 41<br>46<br>49<br>51<br>54<br>55<br><b>63</b><br>44<br>52<br>55<br>57<br>59<br>61<br><b>63</b>   | 39<br>44<br>48<br>51<br>53<br>53<br><b>125</b><br>43<br>47<br>53<br>57<br>60<br>61<br><b>125</b>  | 35<br>40<br>44<br>50<br>52<br><b>250</b><br>39<br>47<br>50<br>54<br>57<br>60<br><b>250</b>  | 19<br>25<br>30<br>34<br>39<br>40<br><b>500</b><br>39<br>32<br>35<br>39<br>43<br>43<br>45<br><b>500</b>   | < 15<br>19<br>23<br>27<br>32<br>33<br><b>1K</b><br>23<br>29<br>31<br>34<br>38<br>41<br><b>1K</b>   | < 15<br>20<br>24<br>32<br>33<br><b>2K</b><br>21<br>25<br>27<br>30<br>34<br>35<br><b>2K</b>   
  | < 15<br>20<br>24<br>27<br>30<br>30<br><b>4K</b><br>20<br>25<br>26<br>28<br>31<br>33<br>33<br><b>4K</b>   | < 15<br>18<br>21<br>24<br>28<br>29<br><b>8K</b><br>16<br>19<br>21<br>23<br>25<br>26<br><b>8K</b>   | 18<br>24<br>28<br>31<br>34<br>36<br><b>dB(A)</b><br>24<br>30<br>34<br>38<br>41<br>43<br><b>dB(A)</b>   |
| 355 SDH-V 315 SDH-V           | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45  | 33<br>39<br>42<br>46<br>54<br><b>125</b><br>37<br>43<br>46<br>50<br>51<br>57<br><b>125</b><br>37<br><b>125</b><br>37<br>43  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>33<br>38   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b>  | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40<br><b>1K</b><br>18<br>23   | < 15<br>< 15<br>15<br>23<br>26<br>32<br>2K<br>16<br>21<br>22<br>23<br>26<br>38<br>2K<br>16<br>21   
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  | < 15<br>< 15<br>< 15<br>16<br>20<br>28<br><b>8K</b><br>< 15<br>15<br>16<br>17<br>19<br>22<br><b>8K</b><br>< 15<br>5<br>15  | < 15<br>< 15<br>20<br>25<br>28<br>34<br><b>dB(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br><b>dB(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br>4 <b>B(A)</b>   | 355 SDH-Y 315 SDH-Y           | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /l<br>550<br>1101<br>1651<br>2207<br>2757<br>3303<br>m <sup>3</sup> /l<br>701<br>1401  
   | 37<br>43<br>47<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>48  | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45<br>49<br>53<br>54<br>55<br>125<br>39<br>46   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46<br>49<br>41<br>43<br><b>250</b><br>35<br>42<br>35<br>42                                  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>38<br>500<br>25<br>29  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>35<br>35<br><b>1K</b><br>20<br>26   | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br><b>2K</b><br>18<br>23   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>29<br>4K<br>17<br>19   
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| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49  | 33<br>39<br>42<br>46<br>48<br>54<br>125<br>37<br>43<br>46<br>50<br>51<br>57<br>125<br>37<br>43<br>47  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>38<br>45   | < 15<br>16<br>19<br>27<br>34<br>41<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b><br>21<br>25<br>28<br>30<br>32<br>43<br><b>500</b><br>27<br>28<br>30<br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b>500</b><br><b></b> | < 15<br>< 15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40<br><b>1K</b><br>18<br>23<br>24<br>23<br>24   | < 15<br>< 15<br>15<br>23<br>26<br>32<br>26<br>32<br>26<br>21<br>22<br>23<br>26<br>38<br>26<br>38<br>26<br>38<br>21<br>22<br>23<br>26<br>38<br>21<br>22<br>23<br>26<br>21<br>22<br>23<br>26<br>21<br>23<br>22<br>23<br>26<br>21<br>23<br>22<br>24<br>21<br>24<br>21<br>24<br>22<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24   
   | < 15<br>< 15<br>< 15<br>18<br>22<br>31<br>4K<br>15<br>17<br>19<br>20<br>22<br>29<br>29<br>4K<br>< 15<br>17<br>19  
  | < 15<br>< 15<br>< 15<br>16<br>20<br>28<br><b>8K</b><br>< 15<br>16<br>17<br>19<br>22<br><b>8K</b><br>< 15<br>15<br>15<br>15<br>15<br>15<br>15   | < 15<br>< 15<br>20<br>25<br>28<br>34<br><b>dB(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br><b>dB(A)</b><br>18<br>23<br>28  | 355 SDH-Y 315 SDH-Y           | 345<br>6900<br>1035<br>20700<br>1138<br>20700<br>1103<br>1655<br>2202<br>2752<br>2752<br>2752<br>2752<br>2752<br>2752<br>27   
   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>48<br>51  | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45<br>49<br>53<br>54<br>55<br>125<br>39<br>46<br>50   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46<br>49<br>41<br>43<br><b>250</b><br>35<br>42<br>42<br>47                                  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>36<br>38<br>500<br>25<br>29<br>31  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>35<br><b>1K</b><br>20<br>25<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>32<br><b>3</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b>  | <15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br>33<br>2 <b>K</b><br>18<br>23<br>25   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>24<br>26<br>29<br>4K<br>17<br>19<br>22   
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| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52  | 33         39           42         46           48         54           54         57           43         46           50         51           57         125           37         43           44         43           57         57           125         37           43         47           51         51                           | 25<br>29<br>34<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>45<br>48   | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> </ul>   | <15<br><15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>29<br>27<br>27   | < 15<br>< 15<br>15<br>23<br>26<br>32<br>26<br>32<br>26<br>21<br>22<br>23<br>26<br>38<br>26<br>38<br>26<br>38<br>21<br>22<br>23   
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   | 37         43           43         47           49         50           55         63           40         43           50         52           55         57           63         40           48         51           54         54   | 35           42           46           48           51           52           125           39           45           49           53           54           55           39           46           50           54  | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46<br>49<br>41<br>43<br><b>250</b><br>35<br>42<br>47<br>50                                  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500<br>25<br>29<br>31<br>35  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>35<br>35<br><b>1K</b><br>20<br>26<br>27<br>30   | < 15<br>16<br>19<br>25<br>28<br>29<br>2 <b>K</b><br>17<br>22<br>25<br>27<br>30<br>33<br>33<br><b>2K</b><br>18<br>23<br>25<br>27  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>22<br>24   
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| 355 SDH-V 315 SDH-V           | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503  | 33<br>39<br>43<br>45<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>52<br>54  | 33<br>39<br>42<br>46<br>48<br>54<br><b>125</b><br>37<br>43<br>46<br>50<br>51<br>57<br><b>125</b><br>37<br>43<br>47<br>51<br>53  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>45<br>48<br>50   | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> </ul>  | <15<br><15<br>16<br>20<br>25<br>33<br><b>1K</b><br>18<br>23<br>24<br>27<br>29<br>40<br><b>1K</b><br>18<br>23<br>24<br>27<br>30   | < 15<br>< 15<br>15<br>23<br>26<br>32<br>26<br>32<br>26<br>21<br>22<br>23<br>26<br>38<br>26<br>38<br>26<br>38<br>21<br>22<br>23<br>22<br>23<br>27   
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  | 37<br>43<br>47<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>48<br>51<br>54<br>57  | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45<br>53<br>54<br>55<br>125<br>39<br>46<br>50<br>54<br>56   | 32<br>35<br>38<br>43<br>46<br>49<br><b>250</b><br>35<br>42<br>46<br>49<br>41<br>43<br><b>250</b><br>35<br>42<br>47<br>50<br>53                            | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500<br>25<br>29<br>31<br>35<br>37  | < 15<br>16<br>18<br>24<br>28<br>30<br><b>1K</b><br>20<br>25<br>27<br>29<br>32<br>35<br>35<br><b>1K</b><br>20<br>26<br>27<br>30<br>33   | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br><b>2K</b><br>18<br>23<br>25<br>27<br>30   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>28<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>24<br>22<br>24<br>26  
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| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>4204  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>52<br>54<br>59  | 33<br>39<br>42<br>46<br>48<br>54<br>125<br>37<br>43<br>46<br>50<br>51<br>57<br>125<br>37<br>43<br>47<br>51<br>53<br>58  | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>48<br>50<br>55   | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> </ul>  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>16</li> <li>20</li> <li>25</li> <li>33</li> <li><b>1K</b></li> <li>18</li> <li>23</li> <li>24</li> <li>27</li> <li>29</li> <li>40</li> <li><b>1K</b></li> <li>18</li> <li>23</li> <li>24</li> <li>27</li> <li>29</li> <li>40</li> <li><b>1K</b></li> <li>23</li> <li>24</li> <li>27</li> <li>30</li> <li>41</li> </ul>  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>23</li> <li>26</li> <li>32</li> <li>2K</li> <li>16</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>38</li> <li>2K</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>25</li> <li>27</li> <li>40</li> </ul>   
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  | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>48<br>51<br>54<br>54<br>57<br>60  | 35<br>42<br>46<br>48<br>51<br>52<br><b>125</b><br>39<br>45<br>53<br>55<br>55<br><b>125</b><br>39<br>46<br>50<br>50<br>54<br>56<br>57   | 32<br>35<br>38<br>43<br>46<br>49<br>35<br>42<br>46<br>49<br>41<br>43<br>35<br>42<br>47<br>50<br>53<br>55  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500<br>25<br>29<br>31<br>35<br>37<br>40  | <ul> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>24</li> <li>28</li> <li>30</li> <li><b>1K</b></li> <li>20</li> <li>25</li> <li>27</li> <li>29</li> <li>32</li> <li>35</li> <li><b>1K</b></li> <li>20</li> <li>26</li> <li>27</li> <li>30</li> <li>33</li> <li>35</li> </ul>  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br><b>2K</b><br>18<br>23<br>25<br>27<br>30<br>33<br>33   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>28<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>24<br>22<br>24<br>26<br>28  
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| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>4204<br>m <sup>3</sup> /h                                 | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br>52<br>54<br>59<br><b>63</b>                 | 33           39           42           46           48           54           125           37           43           46           50           51           57           37           43           46           50           51           53           58           125  | 25<br>29<br>34<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>48<br>50<br>55<br><b>250</b>                                   | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> </ul>  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>16</li> <li>20</li> <li>25</li> <li>33</li> <li>1K</li> <li>18</li> <li>23</li> <li>24</li> <li>27</li> <li>29</li> <li>40</li> <li>1K</li> <li>18</li> <li>23</li> <li>24</li> <li>27</li> <li>30</li> <li>41</li> <li>1K</li> </ul>   | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>23</li> <li>26</li> <li>32</li> <li>2K</li> <li>16</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>38</li> <li>2K</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>38</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>24</li> <li>25</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>28</li> </ul>   
   | <15<br><15<br><15<br>18<br>22<br>31<br>4K<br>15<br>17<br>19<br>20<br>22<br>29<br>4K<br><15<br>17<br>19<br>20<br>22<br>29<br>29<br>4K<br>30<br>4K  
  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>&lt; 15</li> <li>16</li> <li>20</li> <li>28</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>17</li> <li>19</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>20</li> <li>22</li> <li>8K</li> <li></li> </ul>  | < 15<br>< 15<br>20<br>25<br>28<br>34<br><b>dB(A)</b><br>18<br>23<br>23<br>23<br>35<br><b>dB(A)</b><br>18<br>23<br>35<br><b>dB(A)</b><br>33<br>33<br>35  | SDH-Y 355 SDH-Y 315 SDH-Y     | 345<br>6900<br>1035<br>1386<br>690<br>1035<br>1386<br>2075<br>2070<br>2752<br>3300<br>3100<br>1100<br>1655<br>3300<br>2752<br>3300<br>2752<br>3300<br>2752<br>3300<br>2752<br>2752<br>3300<br>2102<br>2752<br>3300<br>3500<br>3500<br>4204<br>4204<br>4204<br>4204<br>4204<br>4207<br>4207<br>42  
   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>50<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>48<br>51<br>54<br>54<br>57<br>60<br><b>63</b>   | 35<br>42<br>46<br>48<br>51<br>52<br><b>125</b><br>39<br>45<br>53<br>54<br>55<br><b>125</b><br>39<br>46<br>50<br>54<br>50<br>54<br>57<br><b>125</b>   | 32<br>35<br>38<br>43<br>46<br>49<br>35<br>42<br>46<br>49<br>41<br>43<br>35<br>42<br>47<br>50<br>53<br>55<br>55<br><b>250</b>                              | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500<br>25<br>29<br>31<br>35<br>37<br>40<br>500   | <ul> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>24</li> <li>28</li> <li>30</li> <li>1K</li> <li>20</li> <li>25</li> <li>27</li> <li>29</li> <li>32</li> <li>35</li> <li>1K</li> <li>20</li> <li>27</li> <li>30</li> <li>35</li> <li>35</li> <li>1K</li> </ul>  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br>2 <b>K</b><br>30<br>33<br>2 <b>X</b><br>30<br>33<br>2 <b>X</b><br>30<br>33<br>2 <b>X</b><br>23<br>25<br>27<br>30<br>33<br>2 <b>X</b><br>23<br>25<br>27<br>30<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27  | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>24<br>22<br>24<br>26<br>28<br>4K   
  | < 15<br>< 15<br>18<br>22<br>24<br><b>8K</b><br>< 15<br>17<br>18<br>19<br>21<br>23<br><b>8K</b><br>< 15<br>17<br>19<br>20<br>22<br>24<br><b>8K</b>   | <15<br>20<br>24<br>28<br>31<br>33<br>dB(A)<br>20<br>26<br>30<br>33<br>35<br>37<br>dB(A)<br>20<br>26<br>30<br>33<br>35<br>37<br>dB(A)<br>20<br>26<br>30<br>34<br>4<br>8(A)<br>20<br>26<br>30<br>34<br>4<br>8(A)<br>20<br>26<br>30<br>33<br>35<br>37<br>4<br>8<br>37<br>4<br>20<br>20<br>24<br>28<br>30<br>20<br>24<br>28<br>31<br>33<br>32<br>32<br>32<br>32<br>33<br>33<br>33<br>33<br>35<br>35<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37  | SDH-Y 355 SDH-Y 315 | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>4204<br>m <sup>3</sup> /h   | 41<br>46<br>49<br>51<br>55<br>55<br>55<br>57<br>57<br>59<br>61<br>61<br>61<br>63<br>45<br>52<br>56<br>60<br>60<br>62<br>63   | 39<br>44<br>48<br>51<br>53<br>43<br>47<br>53<br>57<br>60<br>61<br><b>125</b><br>49<br>54<br>49<br>54<br>57<br>60<br>60<br>62<br><b>125</b>  | 35<br>40<br>44<br>50<br>52<br><b>250</b><br>39<br>47<br>50<br>54<br>57<br>60<br><b>250</b><br>39<br>46<br>51<br>55<br>55<br>55<br>58<br>60<br><b>250</b>                                | 19<br>25<br>30<br>34<br>39<br>40<br>39<br>32<br>35<br>39<br>43<br>45<br><b>500</b><br>30<br>34<br>30<br>34<br>35<br>38<br>43<br>45<br><b>500</b>   | < 15<br>19<br>23<br>27<br>32<br>33<br><b>1K</b><br>23<br>29<br>31<br>34<br>34<br>41<br><b>1K</b><br>24<br>31<br>31<br>31<br>34<br>34<br>34<br>31<br>31<br>31<br>31<br>34<br>34<br>31<br>31<br>31<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34<br>34   | < 15<br>20<br>24<br>28<br>33<br><b>2K</b><br>21<br>25<br>27<br>30<br>34<br>35<br>37<br>2 <b>K</b><br>35<br>37<br><b>2K</b>   
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| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>3503<br>4204<br>m <sup>3</sup> /h<br>891                  | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br>52<br>54<br>59<br>52<br>53<br>83<br>83      | 33         39           42         46           48         54           125         37           43         46           50         51           57         125           37         43           46         50           51         57           43         47           51         53           58         125           38         258 | 25<br>29<br>34<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>48<br>50<br>55<br><b>250</b><br>33                             | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> <li>21</li> </ul>  | <pre>&lt; 15 &lt; 15 &lt; 15 16 20 25 33 1K 18 23 24 27 29 40 1K 18 23 24 27 30 41 1K 18</pre>   | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>23</li> <li>26</li> <li>32</li> <li>2K</li> <li>16</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>38</li> <li>2K</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>27</li> <li>40</li> <li>27</li> <li>40</li> <li>21</li> <li>27</li> <li>40</li> <li>21</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>40</li> <li>26</li> <li>27</li> <li>27</li> <li>28</li> <li>27</li> <li>28</li> <li>29</li> <li>29</li> <li>20</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>28</li> <li>29</li> <li>29</li> <li>20</li> <li>21</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>24</li> <li>25</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>27</li> <li>28</li> <li>29</li> <li>29</li> <li>29</li> <li>20</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>25</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>26</li> <li>27</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26</li> <li>26<th>&lt;15<br/>&lt;15<br/>&lt;15<br/>18<br/>22<br/>31<br/>4K<br/>15<br/>17<br/>19<br/>20<br/>22<br/>29<br/>4K<br/>&lt;15<br/>17<br/>17<br/>19<br/>20<br/>22<br/>29<br/>4K<br/>51<br/>5<br/>17<br/>19<br/>21<br/>23<br/>30<br/>4K<br/>15</th><th><ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>&lt; 15</li> <li>16</li> <li>20</li> <li>28</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>17</li> <li>19</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>20</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li>
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15<br/>19<br/>23<br/>27<br/>32<br/>33<br/><b>1K</b><br/>23<br/>29<br/>31<br/>34<br/>34<br/>41<br/>31<br/>31<br/>34<br/>34<br/>31<br/>31<br/>34<br/>54<br/>24<br/>31<br/>31<br/>31<br/>24<br/>31<br/>31<br/>24<br/>31<br/>24<br/>31<br/>24<br/>31<br/>24<br/>31<br/>24<br/>31<br/>27<br/>31<br/>32<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33<br/>33</th><th>&lt; 15<br/>20<br/>24<br/>28<br/>33<br/><b>2K</b><br/>21<br/>25<br/>27<br/>30<br/>34<br/>35<br/><b>2K</b><br/>22<br/>27<br/>28<br/>31<br/>35<br/>37<br/>2<b>X</b><br/>22<br/>27<br/>28<br/>31<br/>35<br/>37<br/>2<b>X</b><br/>22<br/>22<br/>23</th><th>&lt; 15<br/>20<br/>24<br/>27<br/>30<br/>30<br/>4<b>K</b><br/>20<br/>25<br/>26<br/>28<br/>31<br/>33<br/>33<br/>33<br/>33<br/>34<br/><b>K</b><br/>22<br/>25<br/>26<br/>28<br/>28<br/>23<br/>33<br/>33<br/>34<br/><b>K</b><br/>22<br/>25<br/>26<br/>28<br/>33<br/>33<br/>34<br/>4<b>K</b><br/>27<br/>27<br/>26<br/>28<br/>27<br/>26<br/>28<br/>28<br/>20<br/>24<br/>27<br/>20<br/>24<br/>27<br/>20<br/>24<br/>27<br/>20<br/>24<br/>27<br/>20<br/>24<br/>27<br/>20<br/>20<br/>24<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20</th><th>&lt; 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   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>55<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>63<br>48<br>51<br>54<br>48<br>51<br>54<br>41<br>54<br>41<br>54<br>41<br>54<br>41<br>54<br>41<br>54<br>41<br>54<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55<br>55 | 35<br>42<br>46<br>48<br>51<br>52<br><b>125</b><br>45<br>49<br>53<br>54<br>55<br><b>125</b><br>39<br>46<br>50<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>54<br>55<br>55   | 32<br>35<br>38<br>43<br>46<br>49<br>35<br>42<br>46<br>49<br>41<br>43<br>35<br>5<br>55<br>42<br>47<br>50<br>53<br>55<br>55<br>250<br>36                    | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>38<br>500<br>25<br>25<br>29<br>31<br>35<br>37<br>40<br>500<br>500<br>27  | <ul> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>24</li> <li>28</li> <li>30</li> <li>1K</li> <li>20</li> <li>25</li> <li>27</li> <li>29</li> <li>32</li> <li>35</li> <li>1K</li> <li>20</li> <li>33</li> <li>35</li> <li>1K</li> <li>21</li> </ul>  | < 15<br>16<br>19<br>25<br>28<br>29<br><b>2K</b><br>17<br>22<br>25<br>27<br>30<br>33<br><b>2K</b><br>23<br>25<br>27<br>30<br>33<br><b>2K</b><br>18<br>23<br>25<br>27<br>30<br>33<br><b>2K</b><br>23<br><b>2K</b><br>23<br><b>2K</b><br>24<br>25<br>27<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>20<br>27<br>27<br>27<br>27<br>20<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>24<br>26<br>28<br>24<br>26<br>28<br>4K<br>18   
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| 400 SDH-V 355 SDH-V 315 SDH-V | 345<br>690<br>1035<br>1380<br>7725<br>20700<br>m <sup>7</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>7</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>4204<br>m <sup>7</sup> /h<br>1401<br>1783                | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br><b>63</b><br>38<br>46                       | 33<br>39<br>42<br>46<br>48<br>54<br>125<br>37<br>43<br>46<br>50<br>51<br>57<br>125<br>37<br>43<br>47<br>51<br>53<br>55<br>8<br>8<br>8<br>44   | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>8<br>8<br>45<br>48<br>50<br>55<br><b>250</b><br>33<br>33<br>39       | <ul> <li>&lt;15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>22</li> <li>43</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> <li>21</li> <li>26</li> </ul>   | <pre>&lt;15 &lt;15 16 20 25 33 1K 18 23 24 27 29 40 1K 18 23 24 27 30 41 18 18 24</pre>  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>23</li> <li>26</li> <li>32</li> <li>26</li> <li>32</li> <li>26</li> <li>32</li> <li>26</li> <li>38</li> <li>26</li> <li>38</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>25</li> <li>25</li> <li>26</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> <li>24</li> <li>25</li> </ul>   
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15<br/>&lt; 15<br/>20<br/>25<br/>28<br/>34<br/>4<br/><b>dB(A)</b><br/>18<br/>23<br/>27<br/>30<br/>32<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35<br/>35</td><td>400 SDH-Y 355 SDH-Y 315 SDH-Y</td><td>345<br/>690<br/>1033<br/>2070<br/>550<br/>1100<br/>1655<br/>2202<br/>2752<br/>3303<br/>37/h<br/>701<br/>1400<br/>2100<br/>2100<br/>2100<br/>2100<br/>2100<br/>2100<br/>21</td><td>37<br/>43<br/>47<br/>49<br/>50<br/>55<br/><b>63</b><br/>40<br/>43<br/>55<br/>55<br/>57<br/><b>63</b><br/>40<br/>52<br/>55<br/>57<br/><b>63</b><br/>40<br/>52<br/>55<br/>57<br/><b>63</b><br/>40<br/>52<br/>55<br/>57<br/><b>63</b><br/>40<br/>52<br/>55<br/>57<br/><b>63</b><br/>40<br/>40<br/>52<br/>55<br/>57<br/><b>63</b><br/>40<br/>50<br/>52<br/>55<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57<br/>57</td><td>35<br/>42<br/>46<br/>48<br/>51<br/>52<br/>125<br/>39<br/>45<br/>49<br/>53<br/>54<br/>55<br/>125<br/>39<br/>46<br/>50<br/>54<br/>55<br/>57<br/>125<br/>57<br/>125<br/>40<br/>40<br/>47</td><td>32<br/>35<br/>38<br/>43<br/>46<br/>49<br/>250<br/>35<br/>42<br/>46<br/>49<br/>41<br/>43<br/>35<br/>55<br/>42<br/>47<br/>53<br/>55<br/>55<br/>250<br/>36<br/>42</td><td>16<br/>20<br/>25<br/>38<br/>36<br/>38<br/>500<br/>24<br/>27<br/>32<br/>34<br/>38<br/>500<br/>25<br/>25<br/>29<br/>31<br/>35<br/>37<br/>40<br/>500<br/>27<br/>31</td><td><ul> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>24</li> <li>28</li> <li>30</li> <li>1K</li> <li>20</li> <li>25</li> <li>27</li> <li>29</li> <li>32</li> <li>35</li> <li>1K</li> <li>20</li> <li>33</li> <li>35</li> <li>1K</li> <li>21</li> <li>22</li> </ul></td><td>&lt; 15<br/>16<br/>19<br/>25<br/>28<br/>29<br/>2K<br/>17<br/>22<br/>27<br/>30<br/>33<br/>2K<br/>18<br/>23<br/>27<br/>30<br/>33<br/>2K<br/>19<br/>27<br/>30<br/>33<br/>2K<br/>19<br/>25<br/>27<br/>30<br/>33<br/>28<br/>29<br/>29<br/>27<br/>30<br/>33<br/>28<br/>29<br/>29<br/>29<br/>29<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20<br/>20</td><td>&lt; 15<br/>15<br/>23<br/>26<br/>28<br/>4K<br/>16<br/>18<br/>22<br/>24<br/>24<br/>26<br/>29<br/>4K<br/>17<br/>19<br/>22<br/>24<br/>22<br/>24<br/>26<br/>28<br/>4K<br/>18<br/>22<br/>18<br/>21</td><td>&lt; 15<br/>&lt; 15<br/>15<br/>18<br/>22<br/>24<br/><b>8K</b><br/>&lt; 15<br/>17<br/>18<br/>19<br/>21<br/>23<br/><b>8K</b><br/>&lt; 15<br/>17<br/>17<br/>23<br/><b>8K</b><br/>5<br/>17<br/>17<br/>19<br/>20<br/>22<br/>24<br/><b>8K</b><br/>5<br/>17<br/>17<br/>18<br/>18<br/>21<br/>23<br/>8<br/>8<br/>8<br/>5<br/>17<br/>18<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21<br/>21</td><td><ul> <li>&lt; 15</li> <li>20</li> <li>24</li> <li>28</li> <li>31</li> <li>33</li> <li>dB(A)</li> <li>26</li> <li>30</li> <li>33</li> <li>35</li> <li>dB(A)</li> <li>20</li> <li>26</li> <li>30</li> <li>37</li> <li>dB(A)</li> <li>20</li> <li>26</li> <li>30</li> <li>33</li> <li>35</li> <li>dB(A)</li> <li>20</li> <li>26</li> <li>30</li> <li>33</li> <li>35</li> <li>48</li> <li>48</li> <li>48</li> <li>48</li> <li>41</li> <li>27</li> </ul></td><th>SDH-Y 355 SDH-Y 315</th><th>345<br/>690<br/>1035<br/>13800<br/>m<sup>3</sup>/h<br/>550<br/>1101<br/>1651<br/>2202<br/>2752<br/>3303<br/>m<sup>3</sup>/h<br/>701<br/>1401<br/>2102<br/>2803<br/>3503<br/>4204<br/>m<sup>3</sup>/h<br/>8913<br/>1783</th><td>41<br/>46<br/>49<br/>51<br/>55<br/>55<br/>57<br/>57<br/>59<br/>61<br/>44<br/>52<br/>55<br/>57<br/>57<br/>59<br/>61<br/><b>63</b><br/>45<br/>52<br/>56<br/>58<br/>60<br/>62<br/><b>63</b><br/>46<br/>53</td><td>39<br/>44<br/>48<br/>51<br/>53<br/>53<br/>47<br/>53<br/>57<br/>60<br/>61<br/><b>125</b><br/>45<br/>49<br/>57<br/>60<br/>62<br/><b>125</b><br/>47<br/>57<br/>60<br/>62<br/>47<br/>52</td><td>35<br/>40<br/>44<br/>50<br/>52<br/><b>250</b><br/>39<br/>47<br/>55<br/>54<br/>57<br/>60<br/><b>250</b><br/>46<br/>51<br/>55<br/>58<br/>60<br/><b>250</b><br/>40<br/>46</td><td>19<br/>25<br/>30<br/>34<br/>500<br/>39<br/>32<br/>35<br/>500<br/>30<br/>30<br/>43<br/>45<br/>500<br/>34<br/>33<br/>34<br/>33<br/>34<br/>35<br/>38<br/>46<br/>500<br/>31<br/>37</td><td>&lt; 15<br/>19<br/>23<br/>27<br/>32<br/>33<br/><b>1K</b><br/>23<br/>29<br/>31<br/><b>1K</b><br/>23<br/>34<br/>34<br/>34<br/>34<br/>31<br/>31<br/>31<br/>31<br/>31<br/>31<br/>34<br/>32<br/>31<br/>34<br/>32<br/>31<br/>34<br/>32<br/>31<br/>34<br/>32<br/>33<br/>33<br/>34<br/>34<br/>33<br/>34<br/>34<br/>32<br/>33<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34<br/>34</td><td>&lt; 15<br/>20<br/>24<br/>32<br/>33<br/><b>2K</b><br/>27<br/>27<br/>30<br/>34<br/>35<br/>37<br/>2<b>K</b><br/>27<br/>28<br/>31<br/>35<br/>37<br/><b>2</b><br/>27<br/>28<br/>31<br/>35<br/>37<br/>37<br/>28<br/>31<br/>35<br/>37<br/>37<br/>28<br/>30<br/>30</td><td>&lt; 15<br/>20<br/>24<br/>27<br/>30<br/>30<br/><b>4K</b><br/>20<br/>25<br/>26<br/>31<br/>33<br/><b>4K</b><br/>22<br/>28<br/>31<br/>33<br/><b>4K</b><br/>22<br/>25<br/>26<br/>28<br/>32<br/>25<br/>26<br/>28<br/>32<br/>4<b>K</b><br/>22<br/>5<br/>26<br/>28<br/>22<br/>5<br/>26<br/>28<br/>24<br/>24<br/>27<br/>27<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28<br/>28</td><td>&lt; 15<br/>18<br/>21<br/>24<br/>29<br/><b>8K</b><br/>16<br/>19<br/>21<br/>23<br/>25<br/>26<br/><b>8K</b><br/>18<br/>21<br/>23<br/>25<br/>26<br/><b>8K</b><br/>18<br/>21<br/>23<br/>25<br/>26<br/><b>8K</b><br/>21<br/>23<br/>25<br/>26<br/><b>8K</b><br/>21<br/>23<br/>25<br/>26<br/>27<br/>26<br/>27<br/>27<br/>27<br/>26<br/>27<br/>27<br/>27<br/>27<br/>27<br/>27<br/>27<br/>27<br/>27<br/>27</td><td>18<br/>24<br/>28<br/>31<br/>34<br/>36<br/><b>dB(A)</b><br/>24<br/>30<br/>34<br/>38<br/>41<br/>43<br/><b>dB(A)</b><br/>25<br/>31<br/>43<br/>43<br/>43<br/>43<br/>43<br/>41<br/>43<br/>38<br/>41<br/>43<br/>26<br/>34<br/>34<br/>38<br/>41<br/>43<br/>38<br/>41<br/>43<br/>38<br/>41<br/>34<br/>38<br/>41<br/>34<br/>38<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43<br/>43</td></li<></ul> | < 15<br>< 15<br>20<br>25<br>28<br>34<br>4<br><b>dB(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35   | 400 SDH-Y 355 SDH-Y 315 SDH-Y | 345<br>690<br>1033<br>2070<br>550<br>1100<br>1655<br>2202<br>2752<br>3303<br>37/h<br>701<br>1400<br>2100<br>2100<br>2100<br>2100<br>2100<br>2100<br>21  
   | 37<br>43<br>47<br>49<br>50<br>55<br><b>63</b><br>40<br>43<br>55<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>40<br>52<br>55<br>57<br><b>63</b><br>40<br>50<br>52<br>55<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57                 | 35<br>42<br>46<br>48<br>51<br>52<br>125<br>39<br>45<br>49<br>53<br>54<br>55<br>125<br>39<br>46<br>50<br>54<br>55<br>57<br>125<br>57<br>125<br>40<br>40<br>47   | 32<br>35<br>38<br>43<br>46<br>49<br>250<br>35<br>42<br>46<br>49<br>41<br>43<br>35<br>55<br>42<br>47<br>53<br>55<br>55<br>250<br>36<br>42                  | 16<br>20<br>25<br>38<br>36<br>38<br>500<br>24<br>27<br>32<br>34<br>38<br>500<br>25<br>25<br>29<br>31<br>35<br>37<br>40<br>500<br>27<br>31   | <ul> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>24</li> <li>28</li> <li>30</li> <li>1K</li> <li>20</li> <li>25</li> <li>27</li> <li>29</li> <li>32</li> <li>35</li> <li>1K</li> <li>20</li> <li>33</li> <li>35</li> <li>1K</li> <li>21</li> <li>22</li> </ul>  | < 15<br>16<br>19<br>25<br>28<br>29<br>2K<br>17<br>22<br>27<br>30<br>33<br>2K<br>18<br>23<br>27<br>30<br>33<br>2K<br>19<br>27<br>30<br>33<br>2K<br>19<br>25<br>27<br>30<br>33<br>28<br>29<br>29<br>27<br>30<br>33<br>28<br>29<br>29<br>29<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   | < 15<br>15<br>23<br>26<br>28<br>4K<br>16<br>18<br>22<br>24<br>24<br>26<br>29<br>4K<br>17<br>19<br>22<br>24<br>22<br>24<br>26<br>28<br>4K<br>18<br>22<br>18<br>21   
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  | < 15<br>20<br>24<br>27<br>30<br>30<br><b>4K</b><br>20<br>25<br>26<br>31<br>33<br><b>4K</b><br>22<br>28<br>31<br>33<br><b>4K</b><br>22<br>25<br>26<br>28<br>32<br>25<br>26<br>28<br>32<br>4 <b>K</b><br>22<br>5<br>26<br>28<br>22<br>5<br>26<br>28<br>24<br>24<br>27<br>27<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28  | < 15<br>18<br>21<br>24<br>29<br><b>8K</b><br>16<br>19<br>21<br>23<br>25<br>26<br><b>8K</b><br>18<br>21<br>23<br>25<br>26<br><b>8K</b><br>18<br>21<br>23<br>25<br>26<br><b>8K</b><br>21<br>23<br>25<br>26<br><b>8K</b><br>21<br>23<br>25<br>26<br>27<br>26<br>27<br>27<br>27<br>26<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27  | 18<br>24<br>28<br>31<br>34<br>36<br><b>dB(A)</b><br>24<br>30<br>34<br>38<br>41<br>43<br><b>dB(A)</b><br>25<br>31<br>43<br>43<br>43<br>43<br>43<br>41<br>43<br>38<br>41<br>43<br>26<br>34<br>34<br>38<br>41<br>43<br>38<br>41<br>43<br>38<br>41<br>34<br>38<br>41<br>34<br>38<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43<br>43   |
| V 355 SDH-V 315 SDH-V         | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2752<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2803<br>3503<br>4204<br>m <sup>3</sup> /h<br>891<br>1783<br>2674          | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>48<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br><b>63</b><br>38<br>46<br>50                 | 33         39           42         46           48         54           125         37           46         50           51         57           125         37           43         47           51         53           58         125           38         44           48   | 25<br>29<br>34<br>36<br>41<br>48<br><b>250</b><br>33<br>38<br>44<br>47<br>48<br>56<br><b>250</b><br>33<br>38<br>45<br>45<br>48<br>50<br>55<br><b>250</b><br>33<br>39<br>46     | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> <li>21</li> <li>26</li> <li>28</li> </ul>  | < 15 < 15 < 16 20 25 33 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 40 <b>1K</b> 18 23 24 40 <b>1K</b> 18 24 23 24 18 24 24 18 24 27 30 <b>16 17 18</b> 24 23 24 24 25  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>23</li> <li>26</li> <li>32</li> <li>26</li> <li>32</li> <li>26</li> <li>32</li> <li>26</li> <li>38</li> <li>26</li> <li>38</li> <li>26</li> <li>38</li> <li>26</li> <li>38</li> <li>26</li> <li>38</li> <li>27</li> <li>40</li> <li>22</li> <li>23</li> <li>27</li> <li>40</li> <li>22</li> <li>23</li> <li>27</li> <li>40</li> <li>22</li> <li>23</li> <li>27</li> <li>40</li> <li>22</li> <li>23</li> <li>23</li> </ul>   
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  | <pre>&lt;15 &lt;15 &lt;15 &lt;16 20 28 8K &lt;15 16 17 19 22 8K &lt;15 16 17 19 22 8K &lt;15 16 18 20 22 8K &lt;15 16 18 20 </pre>   | < 15<br>< 15<br>20<br>25<br>28<br>34<br>4<br><b>(B(A)</b><br>18<br>23<br>27<br>30<br>32<br>35<br>32<br>35<br>31<br>33<br>35<br>33<br>35<br>18<br>28<br>31<br>33<br>35<br>28<br>31<br>33<br>28<br>31<br>33<br>28<br>31<br>33<br>28<br>31<br>33<br>28<br>31<br>33<br>35<br>28<br>31<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32 | 400 SDH-Y 355 SDH-Y 315 SDH-Y | 3455<br>6900<br>1035<br>1386<br>1722<br>20770<br>1107<br>1107<br>1107<br>1107<br>2102<br>2752<br>3303<br>3503<br>3503<br>3503<br>3503<br>3503<br>3503<br>35   
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| 400 SDH-V 355 SDH-V 315 SDH-V | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2203<br>3503<br>4204<br>m <sup>3</sup> /h<br>891<br>1783<br>22674<br>3565 | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>8<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br><b>63</b><br>38<br>46<br>50<br>54            | 33         39           42         46           48         54           54         37           43         46           50         51           57         52           37         43           47         51           53         58           125         38           44         48           53         53                            | 25<br>29<br>34<br>36<br>41<br>48<br>250<br>33<br>38<br>44<br>47<br>48<br>56<br>250<br>33<br>38<br>45<br>56<br>250<br>33<br>38<br>45<br>56<br>250<br>33<br>39<br>9<br>46<br>49  | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> <li>21</li> <li>26</li> <li>28</li> <li>33</li> </ul>  | < 15 < 15 < 16 20 25 33 <b>1K</b> 18 24 27 29 40 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 27 30 <b>1K</b> 18 23 24 18 23 24 18 23 24 18 23 24 18 18 24 25 28   | < 15<br>< 15<br>15<br>23<br>26<br>21<br>27<br>28<br>26<br>21<br>22<br>23<br>26<br>38<br><b>X</b><br>16<br>21<br>22<br>23<br>27<br>40<br><b>X</b><br>16<br>21<br>22<br>23<br>27<br>40<br><b>X</b><br>26<br>21<br>22<br>23<br>22<br>23<br>24   
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| 400 SDH-V 355 SDH-V 315 SDH-V | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2202<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2102<br>2203<br>3503<br>4204<br>m <sup>3</sup> /h<br>891<br>1783<br>22674<br>3565 | 33<br>39<br>43<br>45<br>47<br>54<br><b>63</b><br>37<br>44<br>8<br>51<br>52<br>59<br><b>63</b><br>37<br>45<br>49<br>52<br>54<br>59<br><b>63</b><br>38<br>46<br>50<br>54            | 33         39           42         46           48         54           54         37           43         46           50         51           57         52           37         43           47         51           53         58           125         38           44         48           53         53                            | 25<br>29<br>34<br>36<br>41<br>48<br>250<br>33<br>38<br>44<br>47<br>48<br>56<br>250<br>33<br>38<br>45<br>56<br>250<br>33<br>38<br>45<br>56<br>250<br>33<br>39<br>9<br>46<br>49  | <ul> <li>&lt; 15</li> <li>16</li> <li>19</li> <li>27</li> <li>34</li> <li>41</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>30</li> <li>32</li> <li>43</li> <li>43</li> <li>500</li> <li>21</li> <li>25</li> <li>28</li> <li>31</li> <li>34</li> <li>45</li> <li>500</li> <li>21</li> <li>26</li> <li>28</li> <li>33</li> </ul>  | < 15 < 15 < 16 20 25 33 <b>1K</b> 18 24 27 29 40 <b>1K</b> 18 23 24 27 29 40 <b>1K</b> 18 23 24 27 30 <b>1K</b> 18 23 24 18 23 24 18 23 24 18 23 24 18 18 24 25 28   | < 15<br>< 15<br>15<br>23<br>26<br>21<br>27<br>28<br>26<br>21<br>22<br>23<br>26<br>38<br><b>X</b><br>16<br>21<br>22<br>23<br>27<br>40<br><b>X</b><br>16<br>21<br>22<br>23<br>27<br>40<br><b>X</b><br>26<br>21<br>22<br>23<br>22<br>23<br>24   
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15<br>17<br>19<br>20<br>22<br>29<br>4K<br>5<br>17<br>19<br>20<br>22<br>23<br>30<br>8<br>4K<br>5<br>17<br>19<br>20<br>22<br>29<br>29<br>20<br>22<br>29<br>29<br>20<br>22<br>29<br>20<br>22<br>29<br>20<br>22<br>20<br>20<br>22<br>20<br>20<br>22<br>20<br>20<br>20<br>20<br>20  | <ul> <li>&lt; 15</li> <li>&lt; 15</li> <li>&lt; 15</li> <li>16</li> <li>20</li> <li>28</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>17</li> <li>19</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>20</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>18</li> <li>20</li> <li>22</li> <li>8K</li> <li>&lt; 15</li> <li>16</li> <li>17</li> <li>19</li> </ul>  | < 15<br>< 15<br>20<br>25<br>28<br>34<br>dB(A)<br>18<br>23<br>27<br>30<br>32<br>35<br>35<br>dB(A)<br>18<br>23<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>35<br>32<br>32<br>33<br>35<br>35<br>33<br>35<br>35<br>35<br>35<br>33<br>35<br>35<br>35<br>35  | 400 SDH-Y 355 SDH-Y 315 SDH-Y |
3455<br>6900<br>1039<br>1388<br>6900<br>1039<br>1725<br>20700<br>5500<br>1100<br>1653<br>22002<br>2755<br>33003<br>22752<br>33003<br>22752<br>33003<br>22752<br>33003<br>22752<br>23303<br>22070<br>2102<br>22020<br>22752<br>23303<br>22070<br>22070<br>22070<br>22070<br>22070<br>22070<br>22070<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>20700<br>2000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>20000<br>2000000   | 37<br>43<br>47<br>49<br>50<br>55<br>55<br>57<br>63<br>40<br>43<br>50<br>52<br>55<br>57<br>63<br>41<br>41<br>54<br>57<br>60<br>63<br>63<br>41<br>41<br>49<br>53<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>57<br>55<br>55  | 35<br>42<br>46<br>48<br>51<br>52<br>49<br>53<br>54<br>55<br>53<br>54<br>55<br>50<br>50<br>54<br>50<br>54<br>50<br>54<br>56<br>57<br>125<br>40<br>54<br>55<br>7<br>7<br>125<br>56<br>57<br>56   | 32<br>35<br>38<br>43<br>46<br>49<br>250<br>46<br>49<br>41<br>43<br>42<br>47<br>55<br>55<br>55<br>55<br>36<br>42<br>49<br>52                               | 16<br>20<br>25<br>38<br>36<br>500<br>24<br>27<br>32<br>34<br>36<br>38<br>500<br>25<br>29<br>31<br>35<br>37<br>40<br>500<br>25<br>29<br>31<br>35<br>37<br>40<br>27<br>31<br>31<br>31<br>31   | <ul> <li>&lt; 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   | <15<br><15<br>18<br>22<br>24<br><b>8K</b><br><15<br>17<br>18<br>9<br>21<br>23<br><b>8K</b><br><15<br>17<br>20<br>22<br>24<br><b>8K</b><br><15<br>17<br>19<br>20<br>22<br>24<br>8 <b>K</b><br>5<br>17<br>17<br>19<br>20<br>22<br>24<br>8 <b>K</b><br>5<br>22<br>24<br>23<br>23<br>23<br>24<br>23<br>23<br>23<br>24<br>23<br>23<br>24<br>23<br>23<br>24<br>23<br>23<br>23<br>24<br>23<br>23<br>24<br>23<br>24<br>23<br>24<br>23<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24<br>24 | < 15<br>20<br>24<br>31<br>33<br>4B(A)<br>20<br>26<br>30<br>35<br>37<br>4B(A)<br>20<br>26<br>30<br>33<br>35<br>37<br>4B(A)<br>20<br>26<br>30<br>33<br>4<br>20<br>26<br>30<br>33<br>35<br>37<br>4B(A)<br>20<br>26<br>30<br>33<br>35<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37<br>37  | SDH-Y 355 SDH-Y 315 | 345<br>690<br>1035<br>1380<br>1725<br>2070<br>m <sup>3</sup> /h<br>550<br>1101<br>1651<br>2752<br>3303<br>m <sup>3</sup> /h<br>701<br>1401<br>2402<br>2803<br>3503<br>4204<br>m <sup>3</sup> /h<br>8913<br>1783<br>2674<br>43565                | 41<br>46<br>49<br>51<br>55<br>55<br>55<br>55<br>57<br>59<br>61<br><b>63</b><br>45<br>52<br>52<br>56<br>60<br>62<br>62<br>63<br>46<br>53<br>57<br>57<br>59  | 39<br>44<br>48<br>53<br>53<br>53<br>43<br>47<br>53<br>57<br>60<br>61<br>61<br><b>125</b><br>54<br>57<br>60<br>62<br><b>125</b><br>47<br>52<br>55<br>58  | 35<br>40<br>44<br>50<br>52<br><b>250</b><br>57<br>50<br>54<br>57<br>60<br><b>250</b><br>39<br>46<br>51<br>55<br>58<br>60<br><b>250</b><br>40<br>60<br>250<br>40<br>60<br>53<br>55<br>58 | 19<br>25<br>30<br>34<br>39<br>40<br><b>500</b><br>39<br>43<br>35<br>38<br>45<br><b>500</b><br>34<br>33<br>45<br><b>500</b><br>31<br>7<br>35<br>38  | < 15<br>19<br>23<br>32<br>32<br>33<br><b>1K</b><br>29<br>31<br>34<br>38<br>41<br>34<br>38<br>41<br><b>1K</b><br>24<br>31<br>31<br>34<br>31<br>31<br>34<br>31<br>31<br>31<br>31<br>32<br>33<br>33<br>32<br>35   | < 15<br>20<br>24<br>32<br>33<br><b>2K</b><br>27<br>30<br>34<br>35<br>27<br>27<br>27<br>28<br>27<br>27<br>28<br>31<br>35<br>37<br>2 <b>K</b><br>23<br>30<br>30<br>30<br>30<br>33   
   | < 15<br>20<br>24<br>27<br>30<br>30<br><b>4K</b><br>20<br>25<br>26<br>28<br>31<br>33<br>33<br><b>4K</b><br>22<br>25<br>26<br>28<br>31<br>33<br>33<br>5<br>26<br>28<br>31<br>33<br>33<br>5<br>26<br>28<br>31<br>33<br>22<br>25<br>26<br>28<br>31<br>33<br>22<br>25<br>26<br>28<br>31<br>33<br>22<br>27<br>27<br>27<br>27<br>28<br>28<br>31<br>28<br>28<br>31<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28<br>28   | < 15<br>18<br>21<br>28<br>29<br>8K<br>29<br>8K<br>16<br>19<br>21<br>23<br>25<br>26<br>27<br>8K<br>20<br>24<br>25<br>26<br>27<br>8K<br>20<br>27<br>27   | 18<br>24<br>28<br>31<br>34<br>36<br><b>(B(A)</b><br>24<br>30<br>34<br>38<br>41<br>43<br>34<br>38<br>41<br>43<br>34<br>38<br>41<br>43<br>36<br>( <b>A)</b><br>26<br>32<br>36<br>39  |







VRS Moldel

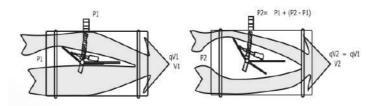


VRS model constant air flow regulators mechanically keep the air flow constant at the desired value by means of a spring and without using any external energy. If the pressure in the duct increases for any reason, the spring-controlled flap lifts and prevents the increase in air flow by increasing the pressure loss against the air speed that tends to increase (please see the picture below).

01 - Self-adjustment minimizes the regulation work required before commissioning on site.

02 - It has a wide working range of 02 - 10 meters/second air speed and 50 to 1000 pascals. 03 - It has 10% flow control sensitivity.

04 - It is possible to install a circular section silencer on the air outlet side of VRS.



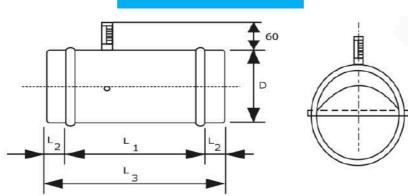
The body of VRS model fixed flow regulators is made of galvanized sheet metal. The regulation fins inside the body are made of aluminum sheet metal. There is a plastic protective cover on the adjustment mechanism.





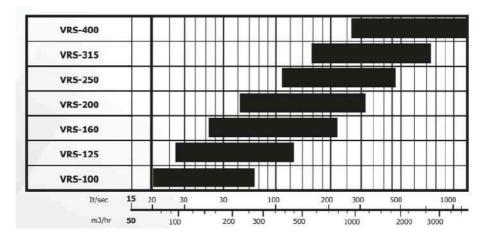


Dimensions



MODEL	D	L1	L2	L3
VRS 100	95	160	40	240
VRS 125	120	160	40	240
VRS 160	155	160	40	240
VRS 200	195	180	50	280
VRS 250	245	180	50	280
VRS 315	310	260	60	380
VRS 355	350	260	60	380
VRS 400	395	310	70	450

### **Quick Selection Table**



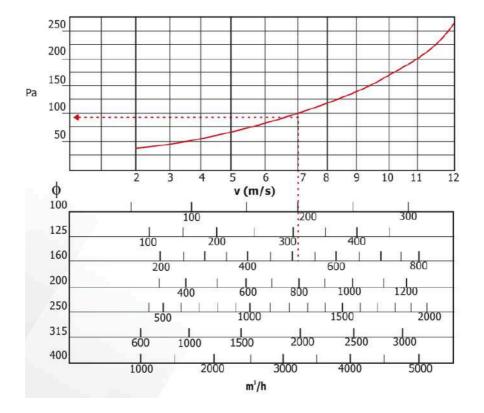






MODEL	V <sub>min</sub>	v <sub>max</sub>	V <sub>min</sub>	V <sub>max</sub>	V <sub>min</sub>	V <sub>max</sub>	P1 <sub>min</sub>	P1 <sub>max</sub>
MODEL	m³/h	m³/h	It/s	It/s	m/s	m/s	Pa	Pa
VRS-100	54	270	15	75	2,0	10,0	50	1000
VRS-125	84	420	23	117	2,0	10,0	50	1000
VRS-160	156	780	43	217	2,0	10,0	50	1000
VRS-200	217	1085	60	301	2,0	10,0	50	1000
VRS-250	342	1710	95	475	2,0	10,0	50	1000
VRS-315	546	2730	152	758	2,0	10,0	50	1000
VRS-400	886	4430	246	1230	2,0	10,0	50	1000

#### Selection Diagrams







Lp(A)	55	59	63	65	58	59	42	68	58	51	28	69	59	62	68	79	61	64	67	71	62	64	68	72	62	65	69	73
8k	48	50	52	55	49	51	53	58	49	52	54	58	50	ß	56	59	50	54	55	60	50	54	56	60	51	55	57	61
¥	50		36	58	52			59	8		28	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	3	28		62	54		53	242.01	56	27	59	64	55	58		65
k 2k	8	8 57		4 61	5 54		2 60		7 55		4 61		7 53		4 62		09 6	<del></del>	8 67		1 59	3 60	- C	0 67	1 60	4 62		1 69
500 1k	23 23	8 58	63 6	68 64	65 55		64 62	1900	58 57		67 64	10000	29 62	3 61	67 6	1 69	63 59	4 62	69 69	2 69	62 61	65 63	99 69	73 70	63 61	막길일	71 68	
250 50	22			9 69	55 6		68 6	1000	51 5		69 69	10000	59 5		9 69	1000	62 6		71 6	161	62 6		72 6	1997	63 6		74 7	
125 25	E	55		71 8	ß		2	1000	29		71	188	09		33	122	61		4	25	3	88		76 7	53		76 7	6374
63 1	8		R	13.621	51		Z	5.39	54		3	1.00	67		74	1.111	60		22	2.08	62		4	10.00	65		Ŕ	1.243
Lp(A)	48	51	56	58	50	ß	57	60	51	54	59	62	23	55	59	63	54	57	61	64	55	57	61	65	57	59	63	65
8	41	44	46	48	42	46	48	50	42	46	84	52	43	48	48	52	44	47	49	53	43	47	49	54	44	48	50	56
<b></b>	4	66	64	51	45	47	20	3	46	84	51	56	46	49	51	56	47	8	52	56	47	5	3	21	48	52	55	28
2k	名	8	52	55	49	20	3	75	48	51	53	60	52	23	55	60	52	56	53	62	23	54	56	61	55	5	55	62
1k	47	50	56	57	65	51	56	58	64	23	27	61	61	54	23	61	ß	56	53	62	3	28	27	63	55	57	61	64
500	47		58		69	ß	58	60	51	54	09	64	62	56	09	64	54	57	62	65	56		62		57	09	2	67
250	\$	23	59	51	\$	54	62	5	51	55	62	68	8		62	Canton	55	59	53	89	56	58	99	67	58	99	6	66
125	4	54	62	5	48	53	64	99	5	52	99	69	8	83	99	69	5	19	67	71	55	61	89	72	59	8	2	22
Lp(A)	30	\$	47		37	4	69		39	44	20		66	45	51		41	8	23		41	47	52		43	48	54	
8	27	31			28	32			28	32			53	33			30	34			30	34			31	35		
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2k	53	39			30	37			35	39			34	39			37	4			35	40			38	4		
1K	32	88			32	4			36	\$			35	41			38	41			36	43			39	45		
500	R	43			35	42			37	43			37	44			8	46			42	48			41	47		
250	36	4			37	46			39	4			4	47			42	84			43	49			45	51		
125	36	45			38	49			40	50			42	22			44	ß			45	33			46	55		
8	36	<del>6</del>	č.	_	8	5		_	6	С			43	ß			45	5		_	8	55		_	8	5		_
V(Lt/s)	33	35	S	70	28	នេ	88	111	20	88	172	197	69	139	222	319	III	222	347	500	139	333	555	LLL	278	555	902	1250
$V(m^3/h)$	8	125	200	250	100	200	316	400	180	316	620	710	250	500	800	1150	400	800	1250	1800	500	1200	2000	2800	1000	2000	3250	4500
v(m/s)	22	45	7.1	8.8	22	45	7.1	8.1	22	4.4	7.2	9.8	22	4.4	7.1	10.2	23	4.6	7,1	10.2	2.1	4.8	7.1	10	22	4.4	7.2	10.2
		ÖLÇÜ	100				125				160				200				260				315				400	
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### Voice Levels

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## **Flow Measuring Units**

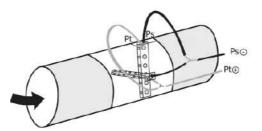
SDK Model



SDK model flow measurement units are devices that can measure air velocities and flow rates in channels with great precision. They make these measurements by means of two pilot tubes placed inside the device.

They measure air speeds above 2 m/s with ± 5% accuracy. The measurements can be read with portable hand tools or connected to fixed digital displays to provide continuous flow monitoring.

SDK type units can be connected to building automation systems and DDC control systems via pneumatic-electronic relays. In this way, continuous monitoring and control of the flow can be ensured.



SDK model flow and velocity measuring devices are shipped as standard without measuring and display instruments such as manometers and indicators. Devices such as inclined tube manometer, digital speedometer, portable flow and pressure gauge can be provided upon request at an additional cost.





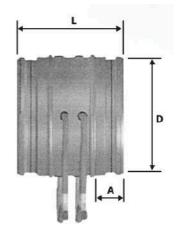




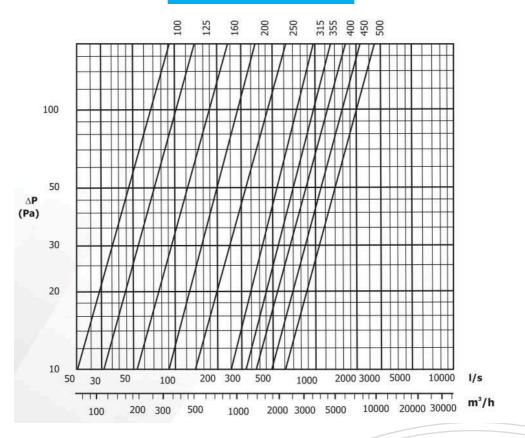
# **Flow Measuring Units**

#### Dimensions

MODEL	A	D	L
SDK 100	34	100	220
SDK 125	34	125	220
SDK 160	34	155	220
SDK 200	34	195	220
SDK 250	34	245	220
SDK 315	34	310	220
SDK 355	34	350	220
SDK 400	34	395	220
SDK 450	34	445	220
SDK 500	34	495	220



#### Pressure Losses













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