Compact ventilation units Series SupraBox COMFORT



SupraBox ... H



SupraBox ... H



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1. General Safety Information

1.1 Warnings regarding industrial safety measures

The following icons inform about certain hazards or safe use.

	Attention! Danger! Safety Advice!
	Hazard by electricity or high voltage!
₹	Crush hazard!
	Danger Overhead Hazard
5555	Caution ! Hot Surface!
i	Important Advice, Information



1.2 Safety Instructions



At the time of delivery the Rosenberg SupraBox Comfort series is constructed and produced according to the latest technical standard. Substantial tests of material, function and quality guarantee a high value and a long lifetime. When improperly used by untrained staff or not according to the instructions these machines can be dangerous.



Read these instructions carefully prior to unpacking, assembling or performing the maintenance!

The system may only be used after installation

- The following work must only be performed by trained specialists:
 - Assembly
 - Electrical connection
 - Connection of power terminals
 - Maintenance work
- Please use the compact ventilation appliance only according to the regulations within the
 prescribed power limit. The power limit is included in the technical data specification or can be
 found on the name plate. One single instance of the prescribed power limit being exceeded
 will inevitably cause damage to the built-in components which results in the safe use of the
 appliance being compromised.
- Only approved material handling equipment may be used. Please consult your local institutions or relevant regulations for the appropriate range.
- Prior to working on electric machines these have to be disconnected from all poles (padlockable selector switches with appropriate capacity and function are included in the delivery and pre-installed).
- After completion of work on the RLT-appliance the responsible person must make sure that nobody is working on the installation before it is re-started.
- Authorized persons must be instructed in the working area according to the normal accident prevention regulations of the relevant Employer's Liability Insurance Associations and be trained in their working area.

See also:

BGV A1 "General Prescriptions"

VBG 5 "Power-driven working equipment"

VBG 9a "Load bearing equipment for hoisting operations"

BGV D27 "Industrial trucks"

BGV A3 "Electrical systems and equipment"



2. Technical Manual

2.1 General Description

- According to the EC Machinery Directive stationery ventilation appliances have to be electrically connected to a breaker and a series fuse. It must be possible to disconnect the unit from all poles!
- The unit corresponds to the requirements of VDI 6022 as well as DIN 1946 T6.
- Depending on the size of the installation the range of application extends to power volume of 3500 m³/h with a transport density of 1,3kg/m³.
- The application area includes air treatments: filtration, heating, cooling and moving. In addition heat recovery with high efficiency is used.
- Energy-efficient compact ventilation unit. Heat recovery through an aluminium reverse flow recuperator with very high efficiency. It can be easily cleaned and for flushing equipped with pans with gradient all around.
- The unit is mounted on a base frame with four adjustable feet, for balancing uneven bottoms, as well as for the outside installation. Adjustment range: 45 – 70 mm
- The compact housing consists of corrosion-resistant, double skin, coil coated, galvanised sheet steel. Quality: DX51D + zinc 275 + additional org. coating min. 25 μm RAL 7035; metal gauge 1.00 mm.
- Side wall panels, housing bottom, housing cover, rear panel and doors (with double-skin) are equipped with 60 mm internal acoustic and heat insulation (min. 33 kg/m³; λ = 0,04 W/m x K).
- The direct drive fans with backward curved centrifugal impellers are installed in the unit with vibration absorption. The drive will be effected by two energy-saving and 100% infinitely variable EC motors.
- Filtration of external air F7 and exit air M5 through particulate panel filters.
- The ventilation unit will be delivered with integrated control. This is easy to maintain and installed in a terminal box on the cover. It is completely wired and tested by the manufacturer.
- The unit is clearly labelled with symbols and text for easy operation. An external controller for the managing the whole system is included in the scope of delivery.



2.2 Device Overview

SupraBox Comfort	800H	1100H	1500H	2000H
Housing	Doubleskin 60 mm frameless	Doubleskin 60 mm frameless	Doubleskin 60 mm frameless	Doubleskin 60 mm frameless
Size (L x W x H) [mm]	1330 x 640 x 1220 Incl. Regulation box and adjustable feet	1500 x 660 x 1420 Incl. Regulation box and adjustable feet	1670 x 700 x 1520 Incl. Regulation box and adjustable feet	1800 x 760 x 1660 Incl. Regulation box and adjustable feet
Operating point	800 m³/h at 150 Pa	1100 m³/h at 200 Pa	1500 m³/h at 200 Pa	2000 m³/h at 250 Pa
Fans	Backwards curved, fr	ree running, driven by rotor motors with inte		berg – EC-external-
Power Input in the operating point	2 x 200 W	2 x 310 W	2 x 470 W	2 x 800 W
SFP-Value In the operating point	900 Ws/m³	1015 Ws/m³	1128 Ws/m ³	1440 Ws/m³
SFP class in the operating point	SFP2	SFP2	SFP3	SFP3
Heat recovery Efficiency	Reverse flow- plate heat exchanger up to η=92%*, corresponding to WRG-classes H1 *Maximum value on condensation, heat recovery dependant on the operation condition			
Air filter	Panel fi	Iter Incoming air:	F7 Extracted a	air: M5
Air Supplies	horizontal DN 315 2,9 m/s	horizontal DN 355 3,1 m/s	horizontal DN 400 3,3 m/s	horizontal DN 400 4,4 m/s
Control	*Temperature control	*Temperature control	*Temperature control	*Temperature control
Max. total current consumption	3 A	4 A	6 A	9 A
Overall sound power level Suction side L _{WA5}	51 dB(A)	52 dB(A)	55 dB(A)	56 dB(A)
Pressure side L _{WA6}	69 dB(A)	76 dB(A)	79 dB(A)	79 dB(A)
Housing L _{WA2}	49 dB(A)	54 dB(A)	56 dB(A)	54 dB(A)
Weight incl. Control	215 kg	260 kg	298 kg	377 kg

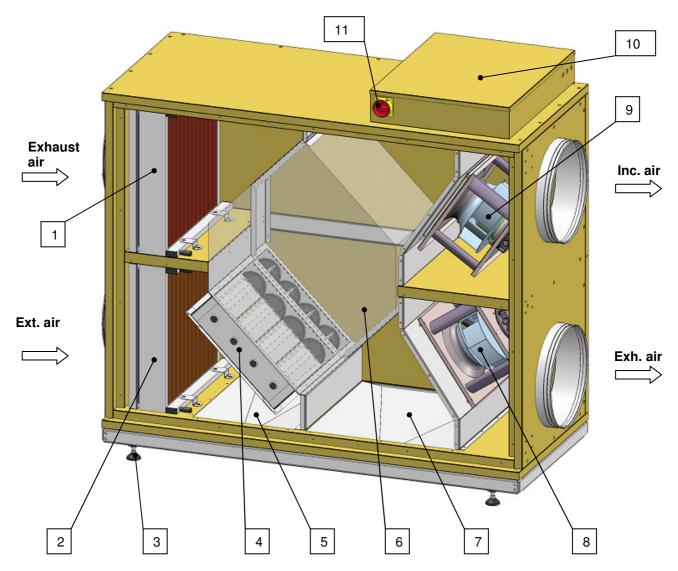
^{*}Temperature control with control of the optional accessories according to the unit size and equipment.



SupraBox Comfort		3500 H		
Housing		Doubleskin 60 mm frameless		
Size (L x W x H) [mm]		2320 x 840 x 1925 Incl. Regulation box and adjustable feet		
Operating point		3500 m³/h at 400 Pa		
Fans	Backwards curved, fr	ee running, driven by rotor motors with inte		nberg – EC-external-
Power Input in the operating point		2 x 1600 W		
SFP-Value In the operating point		1645 Ws/m³		
SFP class in the operating point		SFP4		
Heat recovery Efficiency		neat exchanger up to H1 on condensation, heat condi	l recovery dependant	
Air filter	Panel fil	ter Incoming air:	F7 Extracted	air: M5
Air Supplies		horizontal 600 x 600 [mm]		
Control		*Temperature control		
Max. total current consumption		5,0 A		
Overall sound power level Suction side L _{WA5}		61 dB(A)		
Pressure side L _{WA6}		85 dB(A)		
Housing L _{WA2}		57 dB(A)		
Weight incl. Control		530 kg		

^{*}Temperature control with control of the optional accessories according to the unit size and equipment.





Picture: drawing of the device overview

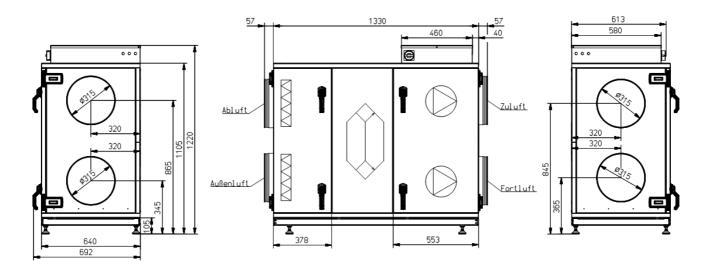
- 1 Panel filter exhaust air M5
- 2 Panel filter incoming air F7
- 3 Adjustable rounded base
- 4 Bypass flap
- 5 Maintenance pan
- 6 Reverse flow heat exchanger

- 7 Condensate pan
- 8 Exhaust fan with EC-motor
- 9 Incoming air fan with EC-motor
- 10 Control box incl. control system
- 11 Main breaker



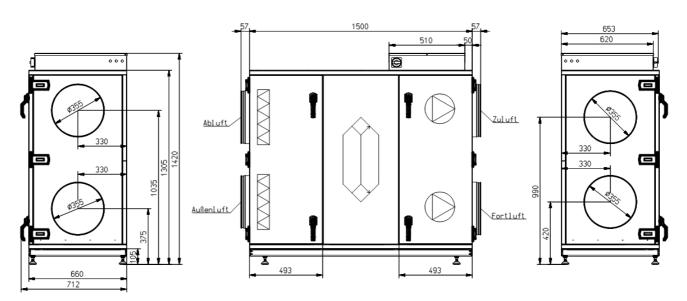
2.3 Device drawings

Suprabox 800 H



• Condensate drain through the hose sleeve 19,4 x 3,7

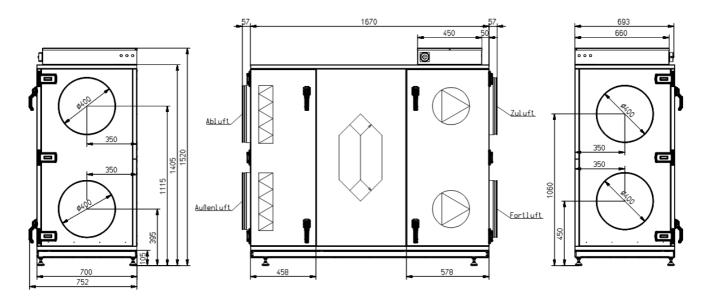
Suprabox 1100 H



• Condensate drain through the hose sleeve 19,4 x 3,7

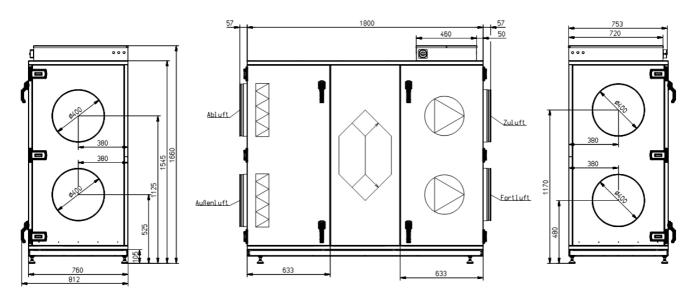


Suprabox 1500 H



• A hose with appropriate hose sleeve is recommended for the condensate drain 19,4 x 3,7

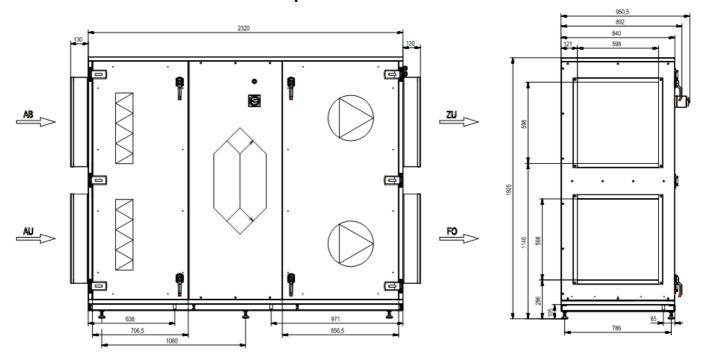
Suprabox 2000 H



Condensate drain through the hose sleeve 19,4 x 3,7



SupraBox 3500 H



Condensate drain through the hose sleeve 19,4 x 3,7

3. Operating Conditions



The Rosenberg compact series SupraBox Comfort is exclusively made for treating air or gaseous media according to the criteria stated below!

The compact ventilation appliancet is suitable for the conveyance of:

- Clean air, low dust or low greasy air
- Slightly aggressive gases or fumes (consult the factory in either case!)
- Gaseous media up to a density of 1.3 kg/m³
- Gaseous media up to a relative humidity of max. 95 %
- Gaseous media in a temperature range of -16 °C up to +40 °C. (higher or lower ranges require special modifications!)
- Non-explosive gaseous media



4. Delivery, Transport and Storage

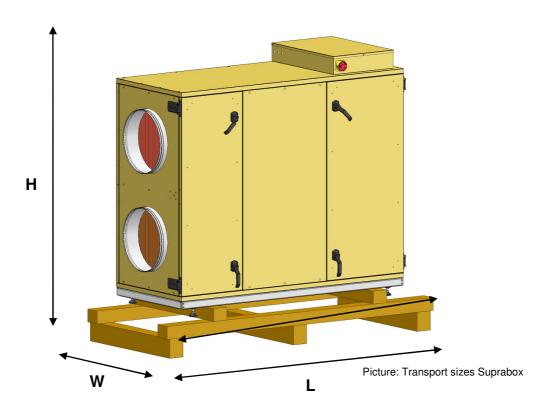
4.1 Delivery



The Rosenberg-Suprabox must be checked for damages immediately on delivery. This should be made before unloading the device from the transport vehicle. Furthermore the completeness of the delivery scope must be checked in accordance with the freight documents. Missing parts or damages must be noted immediately on the freight documents and signed by the driver of the transport vehicle.

4.2 Transport

The unit will be delivered on a customized single use pallet and can be moved with a forklift or a pallet truck. The transport dimensions (incl. control box) and weights can be found on the drawing below:



Suprabox	L	W	П	Weight
800 H	1700 mm	750 mm	1445 mm	245 kg
1100 H	1700 mm	750 mm	1645 mm	290 kg
1500 H	2000 mm	850 mm	1745 mm	335 kg
2000 H	2000 mm	850 mm	1885 mm	415 kg
3500 H	2400 mm	950 mm	2150 mm	570 kg





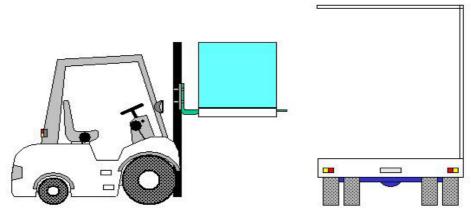
Avoid twisting, bending or other physical damages of the housing when hoisting the device!

- Keep the control doors closed during transport!
- Always use proper hoisting machines!
- Please note that excessive loads on the housing may cause damages!
- For your own safety use appropriate anti-slip gloves and safety shoes for the transport.



For the *transport with forklift or pallet truck* please note the following instructions:

- The transport with industrial trucks requires regular training of the responsible staff according to the accident prevention regulation (in Germany BGV D27 "Flurförderfahrzeuge").
- The loading capacity of the material handling equipment must always be checked before loading!
- The fork length of the material handling equipment must be greater than the length of the transport pallet to be picked up. Forks which are too short cause damage to the floor panels or the device frame.



Picture: Unloading by forklift

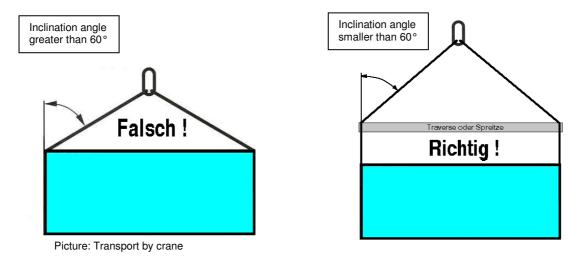
For the *transport with a hall crane or a truck crane* please note the following instructions:



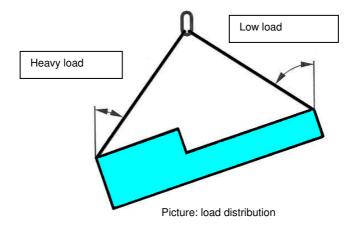
- The transport with cranes or lifting fixation devices requires regular training of the responsible person according to the accident prevention regulation (in Germany VBG 9a "Lastaufnahmeeinrichtungen im Hebezeugbetrieb")
- Danger Overhead hazard! It is forbidden to stay below floating loads!
- For direct load attachment (underdragging the load) only use exclusively licensed, undamaged fabric slings with sufficient contact surface and edge protection. (e.g.: webbing slings according to EN1492-1 or round slings according to EN1492-2)



- It is <u>forbidden</u> to use chain slings or slinging ropes for the direct load attachment!
- The slings should not have an inclination angle of more than 60°!



Please note that when lifting the functional part the distribution is usually out of balance! This
is <u>not</u> visible from outside of the functional part!



- Only use carrying devices with the same length.
- Make careful and none jolting movements.
- Avoid setting the load down hard and bumping



4.3 Storage



- Make sure to store the unit in a dry and weather protected area!
- On receipt of the merchandise the packaging, film and tape must immediately be removed in order to avoid condensation water!
- Open pallets must be covered by tarps. Protect the functional parts against pollution (e.g. chips, stones, wires etc.).
- Also the weatherproof functional parts must be covered, as the weather resistance can only be guaranteed after the installation.
- Keep the storage temperature between -20 °C und +40 °C, avoid high humidity.
- If storing the unit for more than 12 months make sure the fan turns freely before installation.



► Manual rotation of the fan



5. General Assembly Instructions

5.1 Unit Installation



The Rosenberg-SupraBox Comfort must exclusively be installed on a foundation or a substructure which is professionally constructed..

Assumption of static or dynamic building functions by Rosenberg-devices must be excluded. Otherwise the warranty by Rosenberg Ventilatoren GmbH will expire for damages to the device or resulting damages to the building.

Installation and assembly may only be made by trained staff, familiar with the specific accident prevention regulations and general safety-related and occupational health laws.

In addition to the structural requirements also consider the following instructions for the construction of the foundation or substructure:

- The installation area must be level and without torsion.
- The horizontal inclination angle of the installation area may not exceed a maximum of 2%.
- Choose an installation space with an unobstructed condensate drain and water trap, as well
 as sufficient gradient of the condensate line.
- The height level between installation area and floor must guarantee a professional condensate drain from the functional parts.
 - ► Consider the height of the waste trap!

Even out slight area unevenness by assembled rounded bases.

In order to ensure low noise operation, consider the following advice:

- Low air velocity in the duct
- Do not install the device on a wooden ground
- Use a vibration resistant substructure

5.2 Assembly



Get an overview of the quantity and description of all functional parts with help of the enclosed technical documents. Under item 2.2 "device overview" or "item 2.3 device drawings" respectively there is a detailed drawing with all relevant dimensions.

For the installation room or installation area of the SupraBox, make sure that there is sufficient space for operating and maintaining the unit. Permanent access must be guaranteed.

The compact ventilation appliance will be completely wired for plug-in and tested by the manufacturer. It is equipped with an integrated control system.



Only the connections for the ventilation ducts, condensate and water must properly installed on site. Furthermore the electrical supply as well as external sensors or optional accessories such as duct heaters etc. must be connected.

The remote operator control must be connected to the control system using the provided cable and placed at the ventilation system or nearby. The electrical connection has to be made according to the wiring diagram, see the additional operating manual control for the control system.

5.3 Connection of the ventilation ducts to the unit



The connection sleeves of the Rosenberg-SupraBox Comfort are provided as circular tube spigots, with T-sealing lip sizes as shown in the unit drawings. The duct system must be installed according to the valid technical standards and regulations and must support the dead load by installations of the customer. Additional requirements concerning sound insulation separate vibration isolation can be provided as elastic connections. These are not standard in the scope of delivery, but offered as

accessories. The fresh air and exhaust air duct must be isolated against condensate water.

5.4 Electric Installation



Only a professional electrician may install the electrical connection according to the VDE-regulations. The connection must properly be made according to the wiring diagram and the configuration scheme.



All screw joints must be checked before Setup and retightened if necessary. Further installation instructions can be found on the separate manual of the control.

5.5 Connection of the condensate, exhaust air and overflow pipes

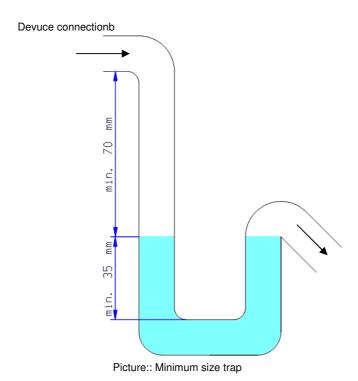
The Suprabox is equipped with maintenance and condensate pan. As you can see in the device overview, the maintenance pan is situated in the fresh air and the condensate pan in the exhaust air. Both pans have a flexible tube at the bottom side of the unit with an inner diameter of 19.4 mm. Do never remove them and check the correct seating before the unit is assembled.

The exhaust air pipe of the maintenance pan is only used for cleaning. Therefore it is necessary to seal the tube of the maintenance pan by appropriate material (e.g. tape) in order to avoid a volume flow leakage in this area.

Especially in the cold seasons there could be condensate in the exhaust air duct of the reverse flow heat exchanger. In order to make sure the condensate drains correctly via the condensate pan and to avoid air leakage, it is important to attach a vacuum trap as shown in the drawing below. Alternatively a hose can be fixed at the unit to replace a trap. The minimum sizes must be observed by the customer. Fill the trap with water before startup. Protect the trap against desiccation and in cold



areas against frost. Do not connect the spout to the sewage system. Alternatively a vacuum trap with non-return ball can be used, but make sure that there is a suction lift of at least 70 mm.





6. Startup and Operation

6.1 General Startup information



Prior to the startup of the compact ventilation unit observe the instructions below:

- Inspection of the proper installation, connection and assembly
- Free air connection, free suction holes
- Free running of the fan wheels
- Closed valves at the heat exchanger units
- Check the screw joints of all connections
- Unlock the electric duct heater only after the fan
- Remove a possible protective film
- Optical inspection of the unit gaskets for damage
- Re-adjust the hinges of the maintenance doors
- Close all doors
- · Operational check of the fans
- Pressure control of the reverse flow heat exchanger must be set according to the operating point of the unit.



► ATTENTION: If above the above instructions are not followed, dangerous conditions may occur on startup of the unit, which affect the functionality and safety of the unit.



► ATTENTION: Before stopping the unit de-energize it and remove water of optional heaters to avoid freezing.

Further information for the startup of the units can be found in the corresponding component specification beginning with 7.4. The instruction manual of the control system must absolutely be observed!



7. Maintenance and Cleaning

7.1 General Maintenance Instructions



The maintenance interval indicated in this manual refers to the transport of normally polluted air. If the unit must transport strongly polluted air, the maintenance intervals must be reduced accordingly.

▶ Before any maintenance work is started the unit must be stopped properly and all poles disconnected from the mains.

Proceed in the following order:



- 1. Stop the unit with using the remote operator. Activated full automatic weekly programs have to be deactivated first.
- 2. Wait 2 minutes until the optional louver damper is closed and the fans have stopped.



3. Now turn the operating switch to ZERO (Off) and make sure that it will not be switched on unintentionally. This step disconnects the compact unit from the mains with all poles. Be aware that the control box will still be hot. For maintenance at the control box the connection must be interrupted.

4.

5.



Wait for the residual voltage to decrease at the EC-control as indicated in the instruction manual of those components.

Let the heater cool down.

6. Now you can open the maintenance doors.

Pay attention that at optionally used channel-type heat exchangers the water circulation must be protected against re-starting.

7.2 General Cleaning Instructions



Recommended cleaning agents for surface disinfection are:

- Dismozon pur (Bode Chemie)
- Melsitt (B.Braun)
- Antifect (Schülke & Mayr)
- Clorina (Lysoform)

All disinfectants are recognized and licensed by Robert-Koch-Institute (date 31.05.2007, 15. edition)

To ensure the hygienically perfect condition of the unit the following instructions must be observed:

Only qualified and trained staff should clean the unit (in Germany according to VDI 6022).



- The hygiene inspection at the unit has to be made according to the following intervals:
 - after startup
 - every 3 years (units without moisturization)
- The periodical hygiene inspection is necessary to reveal hygiene deficiencies at an early stage and to rectify them with appropriate action.
- The results of the inspection of the hygienic condition, the cleaning and disinfection have to be documented in the appropriate way (e.g. operations diary).
- The relevant regulation for the hygienic requirements of the RLT-units is VDI 6022. It is the guideline for the current instructions. All work has to be carried out according to the latest version of the VDI guideline.

Please find instructions for the cleaning and hygiene inspection of each functional part of the device below.

7.3 Maintenance and Cleaning of the housing and control



Please keep to the following instructions for the regular maintenance work (quarterly intervals):

- Check the seals of the control doors and replace them if necessary
- Check the double guide at the fan (discharge side) for correct function.
- Check the panels for damages and corrosion
- Flexible parts, such as hinges, should regularly be treated with an appropriate lubricant spray
- Remove severe loose dirt with a vacuum cleaner
- Remove other dirt with a moist cloth
- The water or cleaning agent should have a neutral ph-value (6-8)

Maintenance of the control and terminal box	every	lf	Hygiene
(only carried out by an electrician)	3 months	necessa	inspection
		ry	-
Check the electrical equipment, cables and connections for dirt and apparent damages and replace them if necessary.	X		
Dry cleaning of the control, do not use water		Χ	



7.4 Fans

7.4.1 Setup



- Before connecting the unit to the mains the initial operation should be made according to the VDE regulation
- Make sure that the operating switch is set to ZERO (OFF) and protected from restarting before you open the fan enclosure.



- The fans should be operated exclusively while installed only after correct installation of the protection unit (suction protection) and with closed doors.
- Before the startup of the fans check the heat recovery, the heater and the corresponding frost protection if the outside temperature is less than 5°C and operate them if necessary in order to prevent the unit from frost damage
- Check the unit for forgotten tools, foreign materials and dirt and clean it if necessary.
- Check all clamping elements of the fan to ensure that they are properly fixed.
 - Motor and fan bearing
 - Fan wheel
 - Vibration absorber

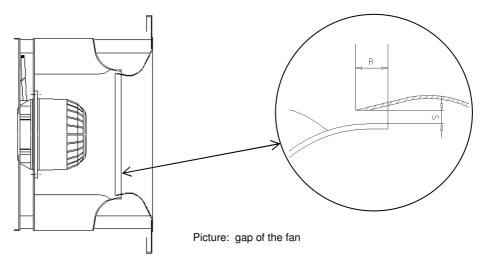


Picture: Fan GKHM

- Before starting the power supply it is necessary to check if all assembly components are ready for use and to adjust them.
- Check the correct function of the fan when you start it up (air supply, balance, vibration or imbalance).
- Check the gap and the gap cover according to the following drawing:



► Check of the gap and gap coverage between wheel and inlet cone



- The gap S should be constant on the entire perimeter of the wheel.
- The gap cover R should be about 1 to 2 % of the wheel diameter.

7.4.2 Operation



Monitor the fans for correct function during the operation. Vibrations, pressure fluctuations or other deviations from the provided operating parameters should be checked according to the following chapter.

7.4.3 Maintenance and Cleaning



Monitor the unit operation during the first four to twelve weeks regarding the following points:

- Balance, unusual sounds, vibrations
- Fastening of the fan, the motor and the vibration absorbers
- For belt driven fans : Belt drive and belt tension

The fan as a fast rotating device needs regular monitoring as well as a three-month maintenance interval. In case of deviations of the standard operation conditions (air temperature, increased dust or permanent high humidity) or in case of continuous 24-hours-operation a shorter interval must be determined.

Maintenance Fan unit	Every 3 Months	If necessary	Hygiene inspection
Check the fan for dirt, mechanical defects, corrosion and proper fastening	X	Hoodary	Х
Check the fan gap	Х		
Cleaning of the fan incl. impeller		Х	
Check the impeller for imbalance	X		
Check the quiet running and bearing for sounds	Х		



Lubricate or replace the bearing		Х	
Check the fan fastening for tightness and mechanical damages	X		
Check the function of the vibration absorber	X		
Check for the existence of the fasteners of the protection units	X		
Check the function of the drainage	X		X
Check the motor for dirt, mechanical defects, corrosion and proper fastening	X		X
Cleaning of the motor housing		X	
Check the power supply	Х		
Check the electrical connections for corrosion and proper fastening	Х		



The fresh air fan can be detached for a more efficient cleaning. Unlock the four allen-head screws at the chassis rails. Make sure that the wiring has been disconnected first.

For easy cleaning the exhaust fan can also be unlocked and detached at the four points of the vibration absorber!

The water or the cleaning agent respectively should have a neutral ph-value (6-8).

7.5 Reverse flow heat exchanger

7.5.1 Startup



Check the correct operation and direction of movement of the bypass flap at the reverse flow heat exchanger. Make sure that the bypass flap is closed on startup of the fans and consequently the flap above the plate heat exchanger is opened.

Pay attention that the drain pan at the bottom of the reverse flow heat exchanger in the exhaust air is fixed to the condensate pipe by a trap (at the suction side. The assembly of the trap is described in detail under point 5.5.

7.5.2 Operation



The automatic bypass flap will be controlled by the central device control using a final control element.



7.5.3 Maintenance and Cleaning



The reverse flow heat exchanger as an installed component needs little maintenance. For hygienic requirements inspection and maintenance is necessary. In addition the integrated damper servomotor and fastener need regular checks and maintenance.

Maintenance	every 3 months	If necessary	Hygiene inspection
Check of the hygienic condition			X
Check the reverse flow heat exchanger for dirt	×		
Cleaning of the plate set with water (water or steam, the sheet of water should always follow the disc set, from top to bottom) Clean the module chamber carefully Completely remove the dirty water Close the maintenance pan		X	
Check the condensate and maintenance pan for dirt	Х		
Cleaning of the condensate and maintenance pan		X	
Check the function of the trap and water level. Fill in water if necessary.	X		
Check the bypass flap on free movement and repair it if necessary	X		

The water or the cleaning agent respectively should have a neutral ph-value (6-8).



► ATTENTION: The blades of the reverse flow heat exchanger are very sensitive to contact. Clean and remove them with extreme caution!

7.6 Panel filters

7.6.1 Startup



- Before the installation of the filter check all seals for correct fitting. Clean the housing bottom.
- Pay attention to the directional arrow for the air stream printed on the panel filters.
- The units are equipped with one differential pressure sensor for each filter. A message will be displayed on the control panel to replace the filter. In such case the filters must be changed immediately. Find more information in the Manual of the control.



7.6.2 Operation



The panel filters must be fastened with use of a tensioning rail at the assembly frame. For the change of the filter draw the rail to the body and now remove the filter. For the re-instalment pay attention to the correct fitting at the frame. When you change the filter check the seal and replace it if necessary.

Picture: Clamping rail filter

7.6.3 Maintenance and Cleaning



The recommended final resistance for this filter version is 200 Pa. Always replace panel filters completely. The filters can be fully incinerated and must be disposed of accordingly. Clean the housing bottom before installing the new filter. Change the filter after 12 months of operation or downtime at the latest. Note the filter change with name and date at the unit and in the maintenance book.

Maintenance	recurrent 3 months	If necessary	Hygiene Inspection
Check for dirt by differential pressure control.	X	X	X
Check the filter element for damages	Х		
Replacement of the filter insert		X	
Check the fitting for impermeable fit	X	X	X
Check the measure control for the differential pressure	Х		Х