komfovent®

Air Handling Units KOMPAKT

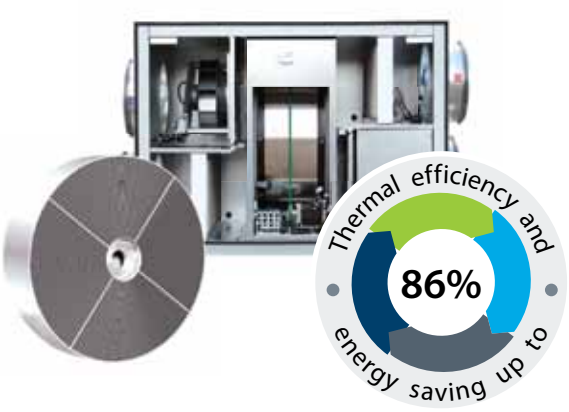
komfovent®

KOMFOVENT KOMPAKT Units

KOMFOVENT KOMPAKT series offers the standardized range of air handling units with heat recovery by rotary or plate exchanger, or just supply air units. Units' air flow performance ranges from 400 m^3/h to 8000 m^3/h.
All KOMPAKT units are based on the principle of PLUG & PLAY: each unit has the integrated control system and is delivered with a complete automatic control installed and pre-wired inside the unit. A modern control panel with touch-sensitive buttons is included in each KOMPAKT unit supplied.
Due to a wide range of functions and compact size KOMPAKT units can be used to ensure the balanced ventilation with heat recovery or without for various application areas: dwelling, public, and industrial.
Due to the availability of clever design and functions the units offer a great opportunity to keep running costs low, they are safe, reliable and durable in operation. The air is filtered and supplied clean and fresh to the premises, which is especially advisable to allergic people.

KOMPAKT REGO

Units with rotary heat exchanger
Capacity range from 170 to 8000 m^3/h.
Efficiency factor – up to 86%.



KOMPAKT RECU

Units with plate heat exchanger
Capacity range from 220 to 8000 m^3/h.
Efficiency factor – up to 65%.

KOMPAKT OTK

False ceiling supply air units
Capacity range from 100 to 4200 m^3/h.
Extra compact size – height is only 350 mm and 545 mm for OTK 3000 and OTK 4000.
OTK units will have EC motors and integrated C5 control system in 2015.

Units with high efficiency counter cross-flow plate heat exchanger
Capacity – 700 m^3/h.
Efficiency factor – up to 92%.
The units' range up to 4000 m3/h will be extended in 2015.

NEW

The new development in KOMPAKT REGO range

Extended functionality

New generation C5 control system, integrated in KOMPAKT REGO air handling units, ensures more efficient performance of them and comfort to users. The new C5 has saved the best features of the C3: most of the former functions have been extended, optimized and became more convenient to use.

More convenient control

The new modern panel has been designed with intention of more convenient control of the air handling units with C5 automatics.

Benefits of control panel:

- Modern design.
- Extremely thin – only 12,5 mm.
- Coloured touch-sensitive LED display.
- Smart control.
- Customized screen saver: up to 3 parameters can be displayed, when unit is in a stand-by mode.
- Integrated thermometer and moisture meter.
- 3 ways of fixing the panel are possible depending on a user's demands: recessed or surface mounted, as well as on the unit's casing due to the integrated magnets in the panel.

Several devices – one interface!

The interfaces between C5 control panel and "Komfovent" mobile application match. This feature is applicable for your smartphones for all control possibilities. The application is available in Google Play or can be downloaded from the QR code below:

Google play

REGO U range

The most important feature of REGO U units (sizes 900-4500) is the universal construction of connections with multipurpose application: the same unit can be connected to the ducts horizontally and vertically. The connections can always be adjusted on site, according to the mounting requirements.

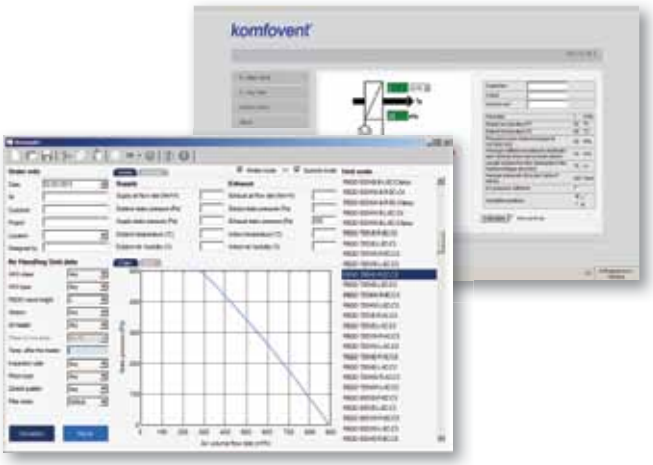
REGO 1400 U – brand new and powerful

The wide range of REGO units is extended by a newly designed REGO 1400 U. The unit's nominal air flow is 1400 m^3/h.

Operating parameters' analysis

The new computer program "Komfovent LogPlotter" has been designed to analyze the unit's operation history of the last 7 days. Unit's operation with C5 can be monitored not only in real-time from now on. Download the program from **www.komfovent.com** website.

You are welcome to download our informative and user-friendly KOMPAKT units' selection program available on **www.komfovent.com** website to get an accurate and precise information of the required parameters of the selectable air handling unit. Technical data sheets present such important technical parameters at the selected unit's working point as: efficiency, SFP, acoustic data, etc.



Reasons to choose KOMFOVENT KOMPAKT Units

PLUG & PLAY solution

Smart design: all units have a fully integrated automatic control without any external electrical boxes.

The special automatic control system for ventilation processes, designed by our highly qualified engineers, contributes to energy saving. The units can be controlled from anywhere in the world using mobile devices (smartphones, computers, tablets).

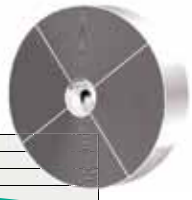
High efficiency EC fans

Low energy consumption – EC fans inside every unit
High efficiency EC (electronically commutated) motors of fans use 50% less energy than AC (alternating current) motors with voltage control. The rotary wheels are also equipped with efficient and silent EC motors.

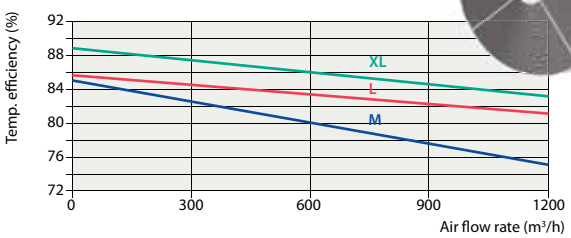
High thermal efficiency of the units

Depending on the exchanger type units' heat recovery is up to 92%, because the majority of the exhaust air heat is recovered to the supplied air. Cool recovery is also possible.

Efficient heat recovery – the desired rotary wheel efficiency is available
The efficiency of rotary heat exchanger may be chosen from 3 available: M, L or XL, depending on the required efficiency level. To ensure efficient operation and minimum operation expenses EC rotary motors are used with rotary heat exchangers.



Temperature efficiency



M – option, L – standard, XL – option

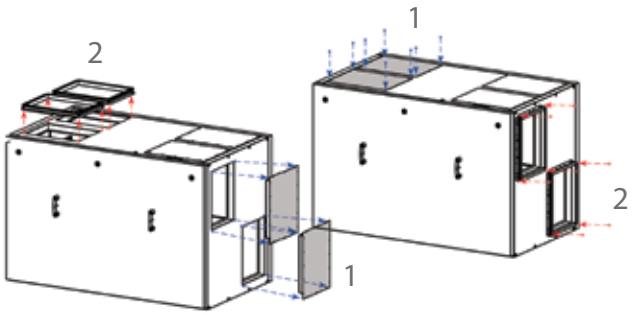
Silent operation and easy mounting

KOMFOVENT KOMPAKT units have tight, insulated and painted casing and high quality components, ensuring the extremely silent operation and mounting. Covering panels of the air handling units consist of two galvanized steel sheets, the gap between them is filled with fire resistant thermal and sound attenuating insulation – mineral wool (λ = 0,036W/mK).
The air handling units with 45 mm thick insulation may operate in unheated premises. Units' doors are manufactured with 45 mm insulation and equipped with locks. Gaps are sealed with gasket in all necessary open and removable planes.
External casing surfaces are powder painted: RAL 7035 as standard. It prevents the unit from corrosion.
KOMFOVENT KOMPAKT air handling units are available in two versions – vertical or horizontal. Units are compact, therefore it is easy to place them in an attic, basement or other premises. Low units' height allows them to be mounted in the suspended ceiling or on the wall. The units are designed to be carried through the standard door, if the width of the unit is bigger than 900 mm – it consists of several sections.

Connection universality of KOMPAKT REGO 900-4500 U

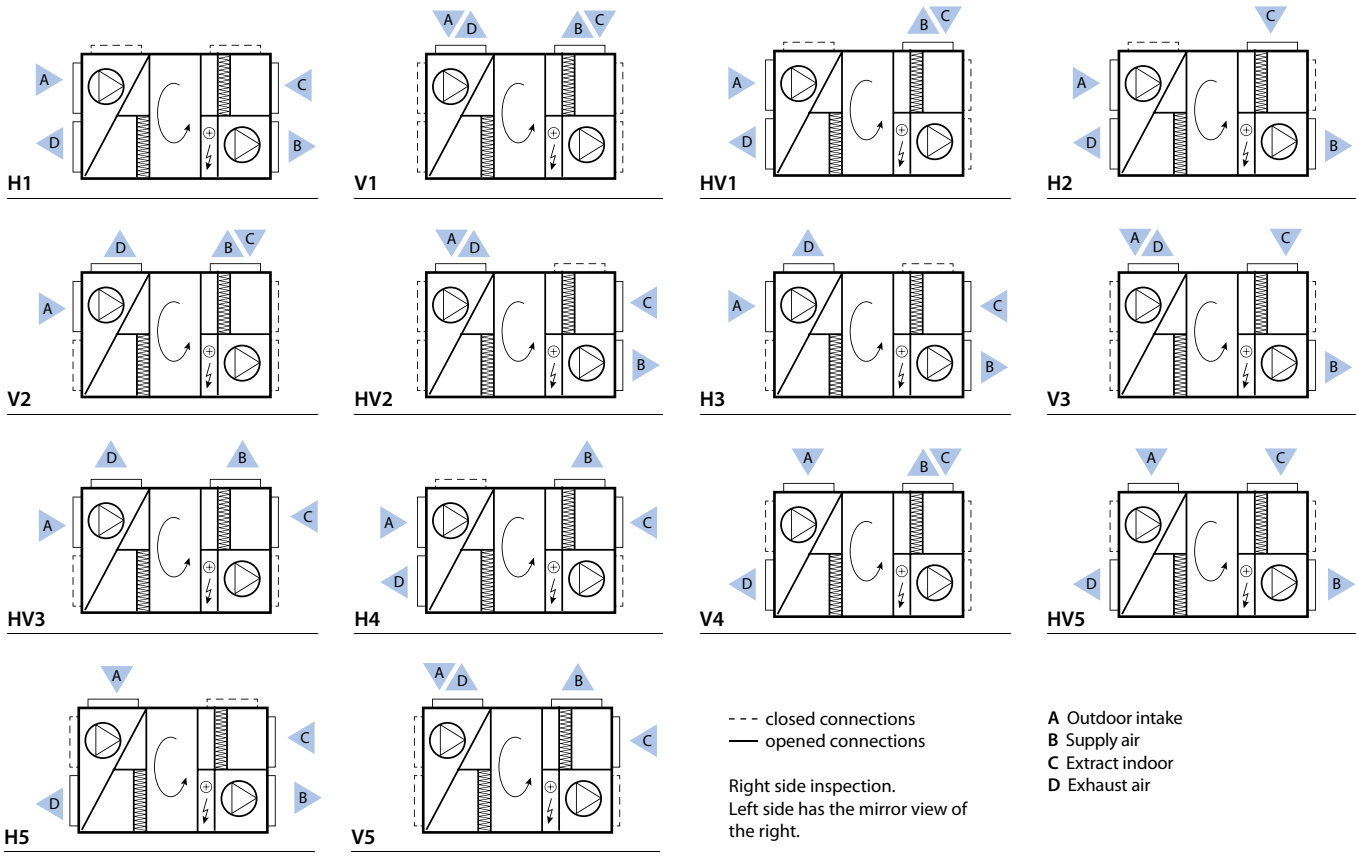
- One unit may have up to 14 connection possibilities;
- Big advantage of having possibility to adapt the unit duct connections directly on the site;
- Perfect solution for keeping unit in stock;
- When ordering the desired version may be chosen at once by indicating the code of the connection.

One of the main advantages is the multipurpose application of one unit – the same unit can be of horizontal and vertical duct connections, installer can always reverse the unit into the required version and choose the duct connections' position on site. One air handling unit – lots of connecting positions.



Easy changing of connection positions: unscrew closed duct connections panels (1) and flanges of opened connection (2), and then change their positioning to the desired connecting version. No additional changes are needed, everything inside the units is prepared for such change.

Possible connection versions of REGO 900-4500 U



- - - closed connections
—— opened connections

Right side inspection.
Left side has the mirror view of the right.

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Control systems

Integrated control system ensures safe operation of the air handling unit, controls preset ventilation system parameters, and optimize unit operating costs. C3 control system is integrated in KOMPAKT RECU and OTK units, C5 control system – in KOMPAKT REGO air handling units.

Control system KOMFOVENT C3

Advantages:

- Easy control;
- Performs all functions of air handling units' control;
- The user may monitor the processes on the LCD display;
- Air flow control and indication;
- Unit PC control;
- Enables to select language.

Operating functions C3

Unit control using panel	Panel can be used to control unit operation: to change operation modes and parameters, to switch unit on or off anytime.
Remote switching on or off	The possibility to switch unit on or off using additional device.
Supply air temperature maintenance	The unit automatically supplies air according to the temperature preset by the user.
Room temperature maintenance	Unit automatically supplies air of such temperature to maintain preset room temperature (15...30°C).
Set point sliding	Option to shift set value of the supply or room air temperature for the specified period of time.
Temperature maintaining mode setting	The user can select from the panel temperature to be maintained: supply air or room air temperature.
Automatic temperature maintaining mode selection	Depending on the outdoor temperature, maintaining mode can be selected automatically.
Ventilation intensity control	The user may set most economical and effective ventilation intensity level.
Remote unit intensity control (OVR)[1, 2]	The ventilation unit intensity will be controlled by contacts. The fourth level of intensity can be activated with these contacts.
Constant air volume control (CAV)[1]	The unit maintains set by the user supply and exhaust air volume.
Variable air volume control (VAV)[1, 3]	The unit supplies and exhausts air volume correspondingly to the ventilation requirements in different premises. In case of frequently changing ventilation demands this air volumes maintenance mode signally reduces the unit exploitation costs.
Air quality function (AQ)[1, 3]	The provided ventilation intensity correction according to the increased CO_2, humidity level and etc.
Ventilation correction in winter time	In winter time, if there is not enough heating power, temperature is maintained by decreasing ventilation intensity.
The unit weekly schedule programming	Weekly operation schedule with three daily events may be set. For each daily event, user can select ventilation intensity.
Unit operation mode selection	In automatic mode unit operates according to weekly schedule. In manual mode unit constantly operates by set intensity.
Season setting	For the most economic unit operation summer and winter settings are provided.
Automatic season change	Depending on the outside temperature, season can be changed automatically.
Pump control	Water pump is controlled depending on the outside temperature and according to the need.
Cooling energy recovery	In summer time, cooling energy is recovered to the room.

Summer night cooling[2]	In summer night time, when cooling is required, ventilation intensity level is automatically switched to the third intensity level. Air is cooled only by outdoor air, without heat or coolness recovery and additional air cooling or heating.
Exhaust air flow correction[1]	The user for the set time period can adjust exhaust air fan speed.

Protection functions

Water heater frost protection	Maximum protection from water freezing.
Electric heater overheating protection	If there is danger of overheating, heater shuts down automatically. The unit is equipped with heater cooling. When unit is shut down during the heating operation, fans will continue to operate for set time period.
Plate heat exchanger frost protection	When there is low outdoor temperature, heat exchanger is protected from freezing.
Fan overheating protection	Fan motor is protected from failure.
Rotary heat exchanger rotation guard	If heat exchanger has a failure, the unit operation is stopped.
Emergency shut down in case of fire	If the unit is connected to the building fire alarm system, in case of fire unit operation is stopped automatically.
Emergency shut down according to the temperature value limits	If supply air temperature reaches emergency level, unit operation is stopped.
Distance unit failure indication	Possibility to indicate unit failure in a distance from the unit.
Return water temperature maintenance	When unit is switched off in winter time, return water temperature of 25°C is maintained in hot water air heater.

Other functions

Filter clogging indication	In case of at least one filter clogging, warning appears on the panel display.
Mode operation, temperature and time indication	Supplied air filter clogging is indicated on the control panel by the red light signal.
Failure indication	In case of failure of a separate unit assembly or elements, the air handling unit is stopped. This is indicated by text message.
Language selection	Control panel provides menu for the language selection.
Air flow indication[1]	Option to monitor unit supply and exhaust air flow (m^3/h, m^3/s, l/s).
Unit PC control[2]	Option to manage and control units by computer, when connected to the PC network, or Internet.

1 – function is provided for units with EC fans.
2 – additionally ordered function.
3 – accessories ordered additionally.

Control system KOMFOVENT C5

Detailed information for the user

- Air flow indication in (m^3/h, m^3/s, l/s).
- Thermal efficiency of the heat exchanger (%).
- Heat exchanger recovered energy (kW).
- Thermal energy saving indicator (%).
- Operation time counters of fans (h).
- Heater energy consumption counter (kWh).
- Heat exchanger recovered energy counter (kWh).

Various operating modes

- 5 different operation modes: *Comfort1*, *Comfort2*, *Economy1*, *Economy2*, and *Special*. User may set supply and extract air volumes as well as air temperature for each of mode separately.
- Temperature control modes: Supply air / Extract air / Room. Possibility to select which temperature to be maintained.
- Flow control modes: Constant Air Volume (CAV), Variable Air Volume (VAV), Direct controlled volume (DCV).
- Universal operating schedule with up to 20 events, for which of them user can assign weekday(s) and one of five operation modes.
- Holliday scheduling allows the user to change operation mode or switch off the air handing unit at some dates of the year. Up to 10 events are possible.

Extended control possibilities

- Controlling up to 30 units connected into a network from one panel.
- Ability to connect the controller to the Internet network and manage it via a standard internet browser without any accessories.
- Possibility to control air handling unit by Smartphone via Android OS.
- Ability to control the unit not only by a control panel or a computer, but also by different external devices (switch, timer, etc.) and systems (e.g. the smart house system).

Connectivity & Protocols

- *Modbus RTU* over *RS-485*
- *Modbus TCP* over *Ethernet*
- *BACnet/IP* over *Ethernet*

Extended control functions C5

Air quality control	Two different air quality values may be set for two different unit operating modes (e.g. *Comfort* and *Economy*). These values will be maintained by automatically increasing or reducing the intensity of ventilation.
Outdoor compensated ventilation	This function adjusts the air volume depending on the outdoor temperature. It is possible to enter four temperature points where two of them define winter conditions and the other two define summer conditions. Upon entering the compensation curve according to the outdoor temperature, the current intensity of ventilation is decreased or increased accordingly.
Summer night cooling	This function is intended for energy saving in summer: utilising the outside chill of night hours to cool down the heated rooms. The user may enable or disable function at any time as well as set the room temperature at which the function is automatically activated.
Override function	Override control of the unit can be performed by an external device (timer, switch, thermostat, etc.). The signal received from the outside activates the function which switches the unit to the pre-programmed mode ignoring the current operating mode.
Minimum temperature control	This function forces the reduction of the supply and extract air volumes set by the user when the heater capacity available in the unit is insufficient and/or heat recovery does not ensure the supply of the minimum temperature to the room.
Humidity control	An air handling unit can be ordered with an air humidity control function. If this function is available the user is able to choose the humidity control location: supply air, extract air or room. The user is also able to choose the method of control: humidification, dehumidification or both at a time.
Circulation pumps control on demand	Both heating and cooling pumps are controlled according to the current need for heating or cooling instead of a season control.
Air flow density compensation	Air density depends on the temperature. C5 offers a function which adjusts the air flows automatically to avoid any misbalance in rooms while being ventilated.
Operation on demand	The air handling unit start-up function is designed to start the unit operating in off mode when one of the selected parameters (CO_2, air quality, humidity, or temperature) has exceeded the critical limit.
Change-over function	Control of combined water heater- cooler and DX cooler reversing to the heating mode.

New safety features

Rotary or plate heat exchanger failure protection	This function observes the thermal efficiency of the heat exchanger. If it does not reach the required level a fault is recorded and indicated.
Rotary or plate heat exchanger anti-frost	Under the low outdoor temperature conditions, this function is constantly observing decreasing tendency of the heat exchanger thermal efficiency, determines the moment when the heat exchanger starts freezing, and activates the defrosting function automatically.
Service time	A warning message appears when the continuous operation of the AHU has reached 12 months.
Rotor cleaning function	This function ensures that the rotary heat exchanger does not pollute when turned-off. When the air handling unit operates without heat recovery, i.e. when the rotor does not rotate for some time, it is forcibly activated for a little so that moving air flows could blow possible dust.
Rotor warm-up function	This function forcibly activates the rotary heat exchanger if the air handling unit is turned off for some time and the temperature inside the unit or ventilation system is low enough for the rotor to freeze.
Circulation pumps start-up in off mode	This function starts water circulation pumps for a short period of time when they are off longer than the set period.
Warning for too low air flow	If the air handling unit does not reach the air volume set within the time set, the user is warned by an informative message.
External stop	Shut-down function from external device. May be used with or without an automatic unit restart.
Emergency shut-down in case of fire	The external fire alarm is provided when the unit is connected to the building fire alarm system. There is also an internal fire alarm to detect an increased temperature inside the air handling unit or the ventilation system.
Intelligent self-diagnostic	Self-check function of controller and elements of the air handling unit. If a fault is detected, C5 terminates the operation of the unit and warns about such a fault using the respective informative messages.

KOMFOVENT KOMPAKT REGO

Air handling units with rotary heat exchanger.
Capacity range from 170 to 8000 m^3/h

Advantages of KOMFOVENT KOMPAKT REGO Units

Heat Energy Saving

In the process of ventilation the heat of the exhaust air is recovered to the supplied air – the unit allows up to 86% heat recovery.

Efficient Heat

Under the normal operational conditions, the rotary heat exchanger does not freeze: exchanger at outdoor temperatures below -20°C, no additional warming up required of the supply air which results in heat energy even at hard frosts. The application of the rotary heat exchanger allows reducing the energy consumption for warming up the supply air by approximately 4 times.

Air humidity balance

Under the normal operating conditions the condensate does not form in the process of heat exchange in the rotary heat exchanger, because 93% of the humidity is returned to the premises. The excess moisture is removed outside. The air in the premises is less drained and the air humidity balance is maintained. As the condensate does not form, the drainage is not necessary – this simplifies the mounting of the unit.

Low noise level

KOMFOVENT KOMPAKT air handling units are equipped with silently operating fans and sound insulation, which ensures low noise level.

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

* temperature after the heat exchanger
** minimal outdoor temperature -40°C

Rotary Heat Exchanger

The efficiency on the demand up to 86%: three levels of rotor efficiency are available. Optimum efficiency is achieved with M type rotor, higher values may be reached with standard L type or optional XL type rotor.

Air handling units are equipped with two types of rotary heat exchangers:

- **Heat exchanger is made from aluminum foil.** It recovers heat (during the heating season) or cold (in summer, if the air is conditioned). It recovers moisture.
- **Heat exchanger is made from hygroscopic aluminum foil.** It recovers heat (during the heating season) or cold (in summer, if the air is conditioned). Heat exchangers of this type regenerate moisture more efficiently.

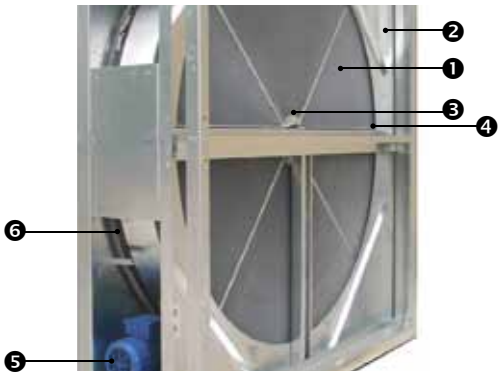
Energy efficient EC motor

All rotary heat exchangers are equipped with EC motors, which save the energy and ensure the smooth rotor operation and control.

Advantages of Rotary Heat Exchanger

- High efficiency coefficient – up to 86%.
- Not freezing.
- 4 times lower energy consumption for warming up the air.
- Humidity is transferred to supply air – there is no need for additional humidifier in the premises.
- No drainage is necessary – easy unit installation.
- Very compact in size.
- Cooled air may be recovered that results in the reduced energy consumption for air cooling.

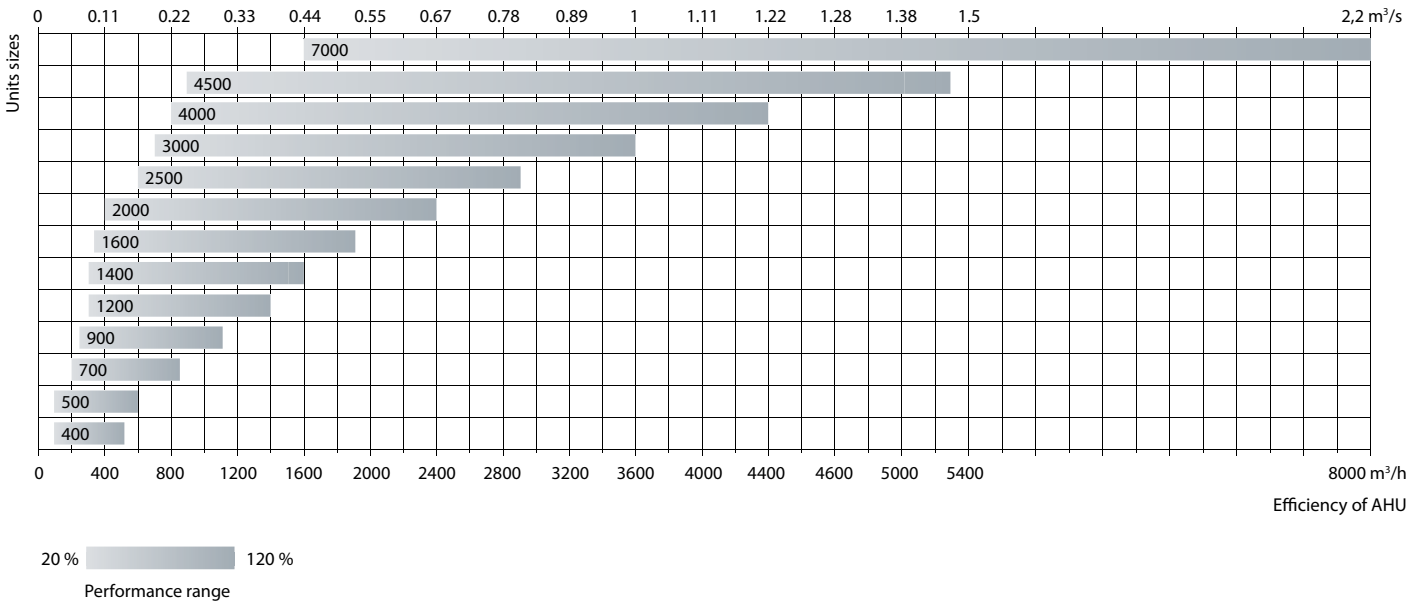
As an additional protection for very low outdoor temperatures such as -30°C and lower, it is recommended to use duct mounted preheater.



Design:

1. Aluminum rotor is made from corrugated and flat plates of aluminum foil. Rotor has a multitude of metal channels for laminar air flow.
2. Galvanized steel frame
3. Shaft with bearings
4. Sealing band between airflows
5. EC motor
6. Rotor belt

Standard sizes of KOMFOVENT KOMPAKT REGO units



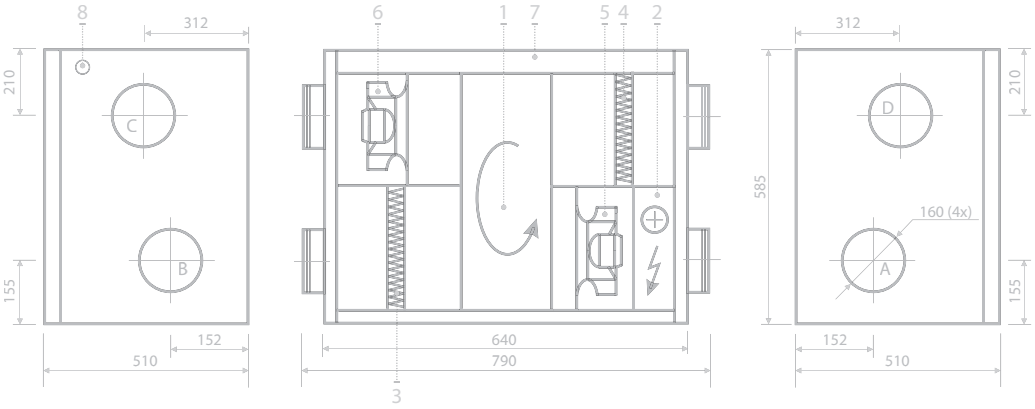
KOMPAKT REGO 400

UNIT'S SELECTION SAMPLE

The photo is intended for informational purposes only, exact details may vary.

Panel thickness	45 mm
Unit weight	48 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230 V
Maximal operating current	6,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

REGO 400H



Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Automatic control devices
8. Connection of main cable

For some units right and left sides are mirrored, but in some units they are rotated. Choose the right side of unit installation.

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 82 p. 83 p. 86 p. 88 p. 84

To calculate the P for EC motor use formula:
P = SFP*V; where SFP – kW/(m³/s) and V – m³/s.
To calculate SFP for AC motor use formula:
SFP = P/V; where P – kW and V – m³/s.

EC Fans

Input power at point 100 Pa / 400 m³/h	94 W
Rotation speed	3280 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	1 kW
Air temperature, Δt	7,5°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,2	13,7	14,6	15,5	16,4	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 280 m³/h (78 l/s), 100 Pa.

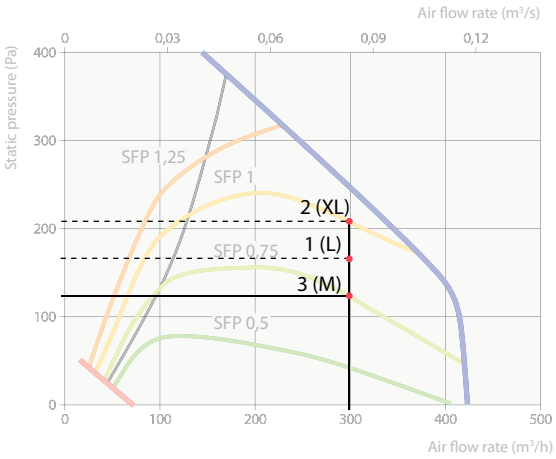
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 400 HE									
Supply Inlet	29	39	51	55	54	54	49	42	60,2
Supply Outlet	34	46	57	62	62	60	56	50	67,2
Exhaust Inlet	29	39	51	55	54	54	49	42	60,2
Exhaust Outlet	34	46	57	62	62	61	57	52	67,5
Casing	31	41	49	46	45	43	35	28	52,8

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

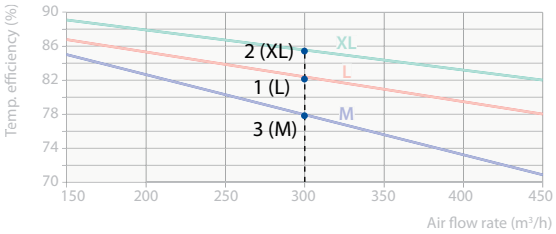
Surroundings	23	33	36	34	36	32	25	18	41,4

Performance REGO 400

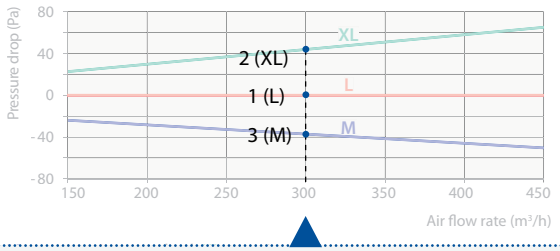


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for HW approximately 15 Pa at 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



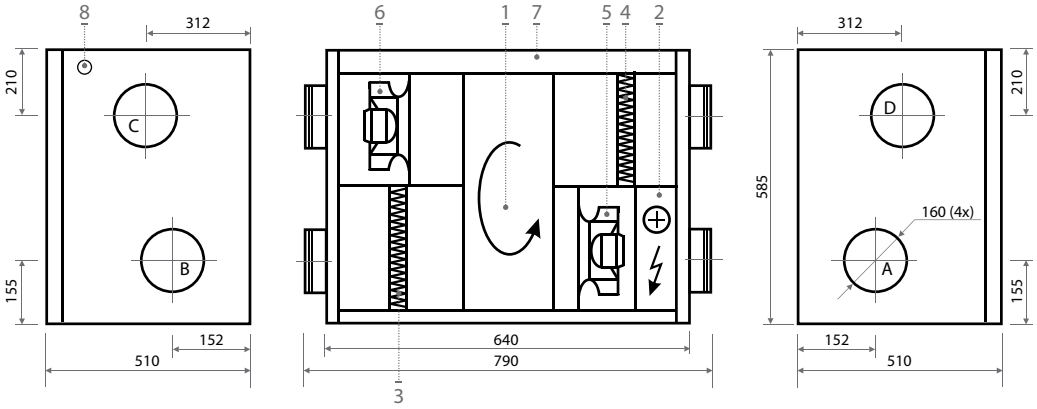
These charts are needed for unit performance evaluation for different efficiencies of rotary heat exchanger. Unit performance chart data presented for L type rotary heat exchanger and M5 class filter. As all KOMPAKT REGO units must correspond to high energy efficiency requirements, L type rotary heat exchanger of higher efficiency is used as a standard. Optional XL type rotary heat exchanger gives possibility to reach maximum efficiency of recovery. Pressure drop graph is used to check if unit performance is still in the right unit working zone, for example:
Unit is selected for 300 m³/h and 160 Pa static pressures marked by point 1 in the performance chart. To check standard unit with XL or M type rotary working zone it is needed to calculate additional pressure drop. XL type rotary must be evaluated in the performance graph: i.e. pressure drop of 50 Pa (data from the pressure graph, point 2) must be added to static pressure in point 1 to get performance point of unit (300 m³/h). Unit with XL performance has parameters in point 2 (static pressure 210 Pa for 300 m³/h, thermal efficiency 85.5%). Checking for point 2 is it remains in its working zone. In case if working point is out of performance zone – bigger size unit must be selected for higher efficiency rotary heat exchanger. The same actions must be done selecting unit with optional M rotary heat exchanger. Find value in pressure drop graph (it will always be minus); subtract this value in the performance graph to get point 1. The unit data in point 3 will be (300 m³/h, 120 Pa, efficiency of 78%).

KOMPAKT REGO 400

Panel thickness	45 mm
Unit weight	48 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230 V
Maximal operating current	6,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

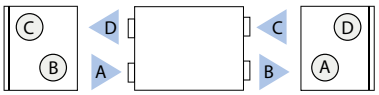
REGO 400H



Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Automatic control devices
8. Connection of main cable

Shown as right



Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	410x200x46 mm

EC Fans

Input power at point 100 Pa / 400 m³/h	94 W
Rotation speed	3280 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	1 kW
Air temperature, Δt	7,5°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,2	13,7	14,6	15,5	16,4	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 280 m³/h (78 l/s), 100 Pa.

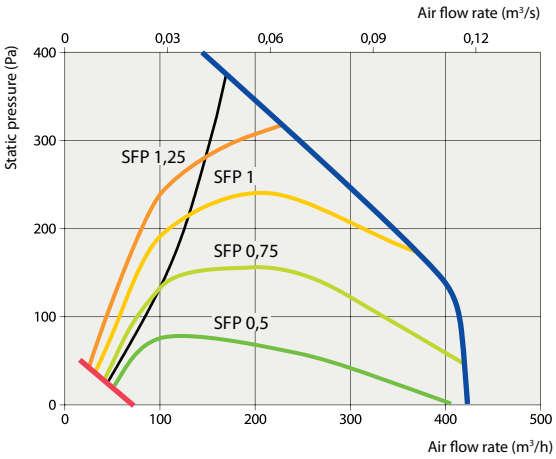
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 400 HE									
Supply Inlet	29	39	51	55	54	54	49	42	60,2
Supply Outlet	34	46	57	62	62	60	56	50	67,2
Exhaust Inlet	29	39	51	55	54	54	49	42	60,2
Exhaust Outlet	34	46	57	62	62	61	57	52	67,5
Casing	31	41	49	46	45	43	35	28	52,8

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

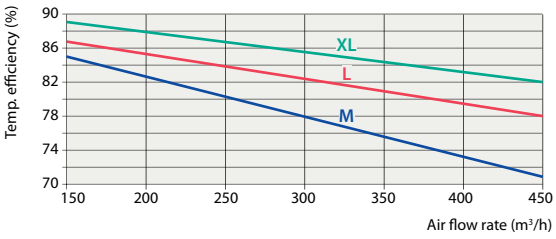
Surroundings	23	33	36	34	36	32	25	18	41,4

Performance REGO 400

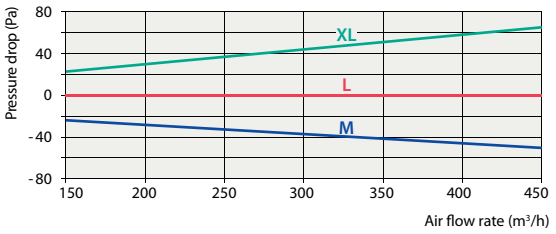


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for HW approximately 15 Pa at 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



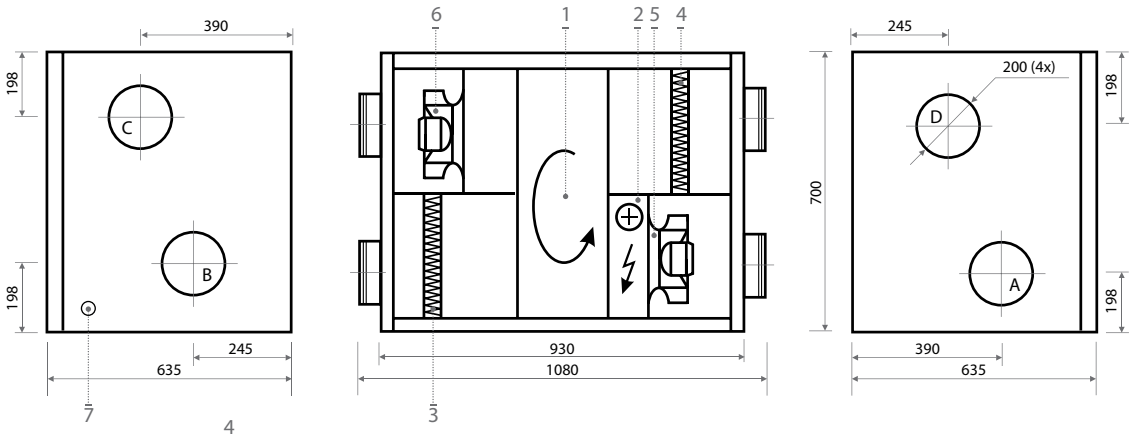
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 500

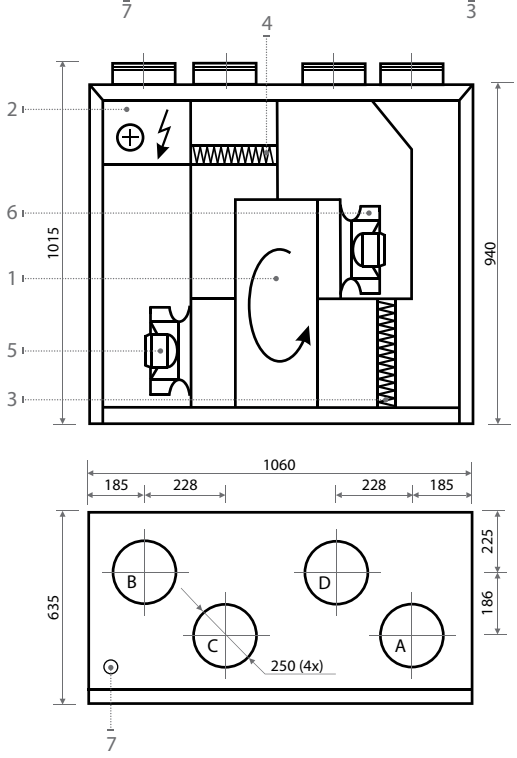
Panel thickness	45 mm
Unit weight V/H	140/90 kg
Nominal air flow	500 m³/h
Supply voltage	1~ 230 V
Maximal operating current	6,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 500H



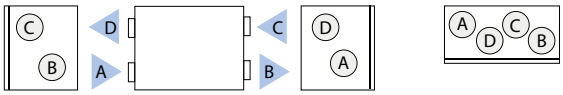
REGO 500V



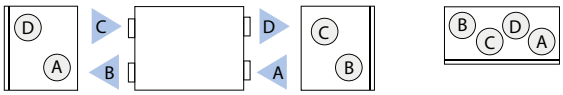
Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable

Shown as right



Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 82 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	540x260x46 mm

EC Fans

Input power at point 100 Pa / 500 m³/h	86 W
Rotation speed	2250 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	1 kW
Air temperature, Δt	6°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	13,4	14,6	15,4	16,2	16,9	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 350 m³/h (97 l/s), 100 Pa.

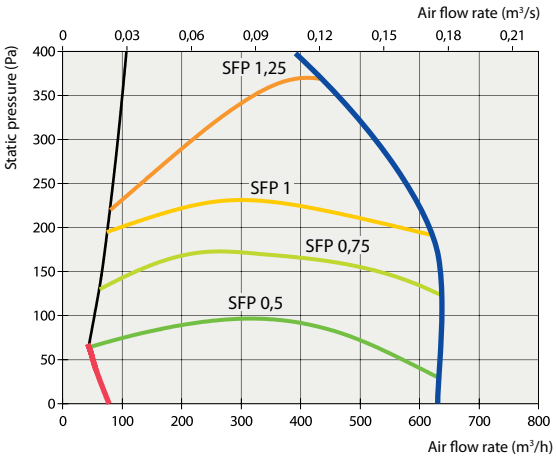
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 500 H(V)E									
Supply Inlet	30	35	47	53	51	48	43	35	56,7
Supply Outlet	35	42	54	59	58	54	50	43	63,2
Exhaust Inlet	30	35	47	53	51	48	43	35	56,7
Exhaust Outlet	35	42	54	59	58	54	50	44	63,2
Casing	32	37	46	44	43	39	31	25	50,0

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

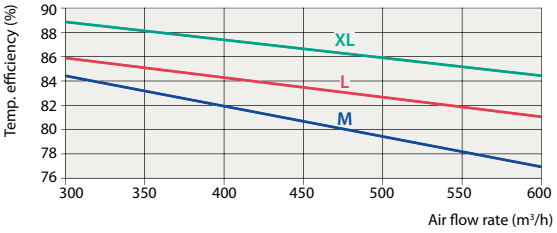
Surroundings	24	29	33	32	34	28	21	15	38,7

Performance REGO 500

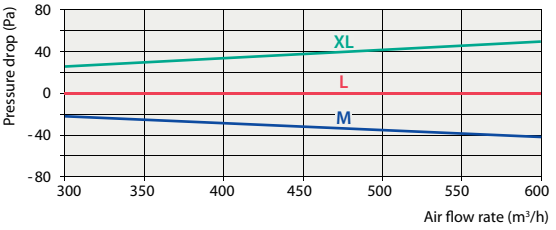


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 15 Pa at 500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



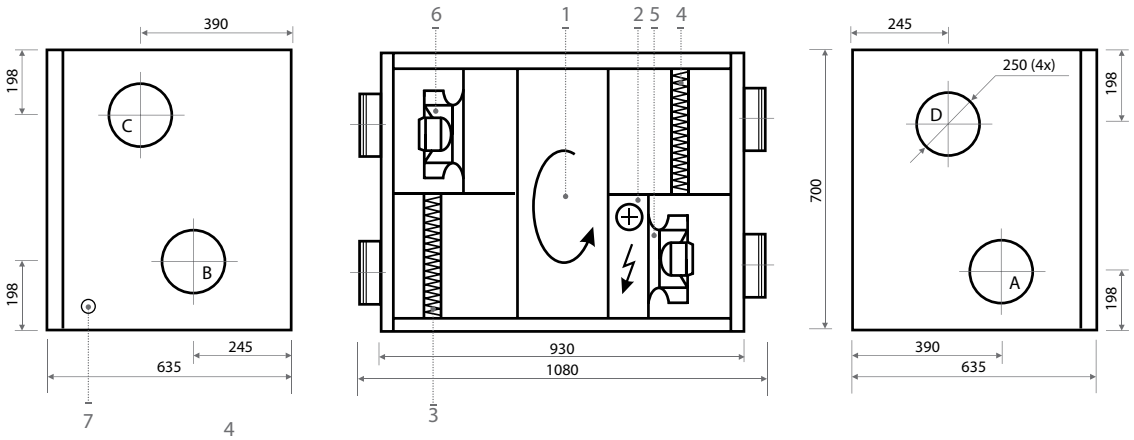
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 700

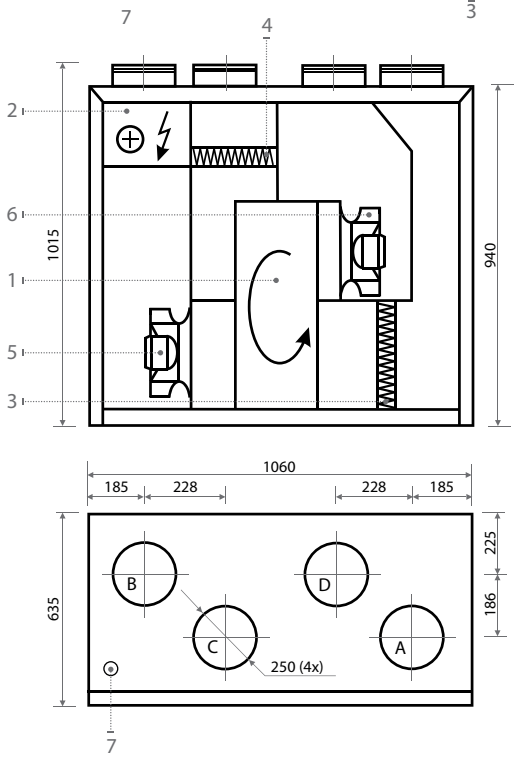
Panel thickness	45 mm
Unit weight V/H	140/90 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current	11,5 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 700H



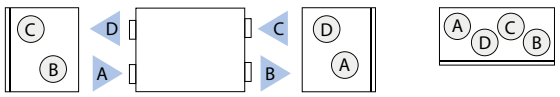
REGO 700V



Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable

Shown as right



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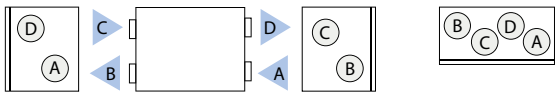


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 82 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	540x260x46 mm

EC Fans

Input power at point 100 Pa / 700 m³/h	115 W
Rotation speed	2200 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	2 kW
Air temperature, Δt	8,6°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,2	13,6	14,5	15,4	16,4	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 490 m³/h (136 l/s), 100 Pa.

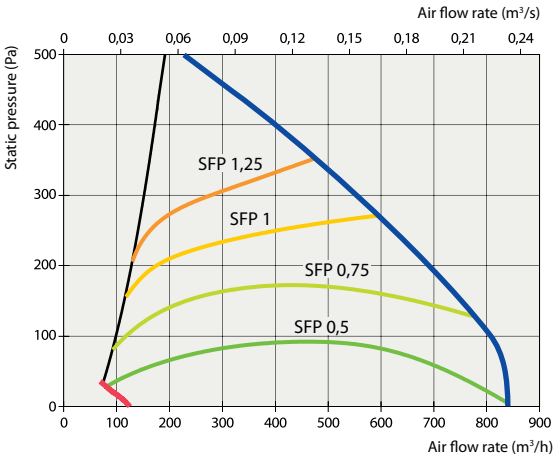
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 700 H(V)E									
Supply Inlet	27	38	50	56	54	52	46	37	59,8
Supply Outlet	32	45	57	63	61	58	53	45	66,7
Exhaust Inlet	27	38	50	56	54	52	46	37	59,8
Exhaust Outlet	32	45	57	63	61	59	54	46	66,9
Casing	29	40	49	46	45	42	33	25	52,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

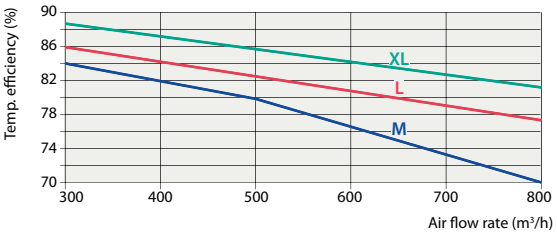
Surroundings	21	32	36	34	36	31	23	15	41,1

Performance REGO 700

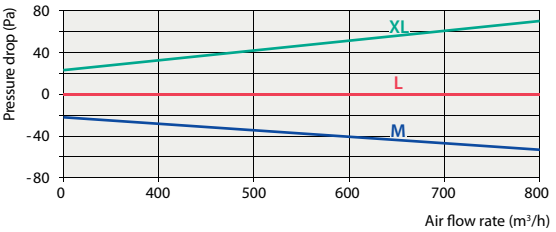


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 15 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



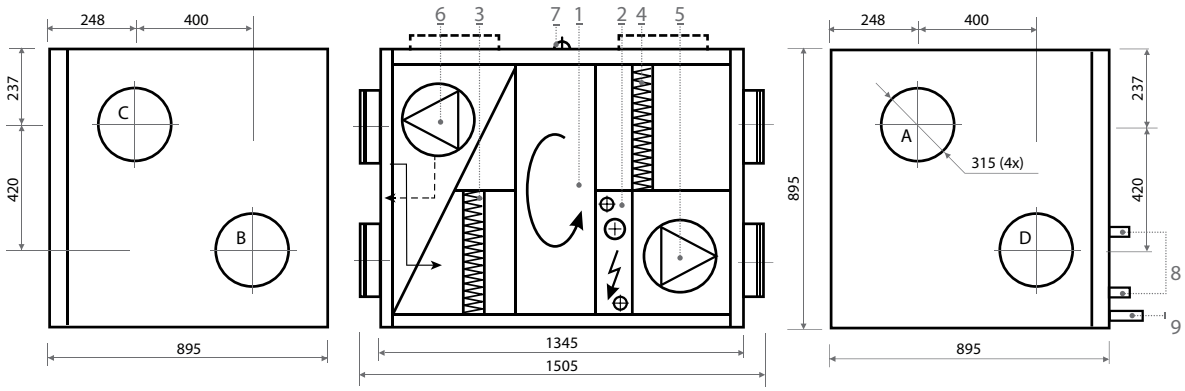
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 900 U

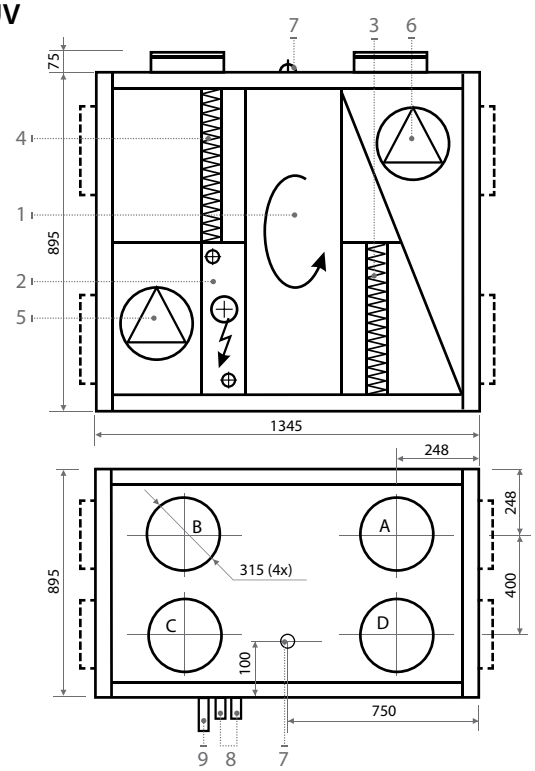
Panel thickness	45 mm
Unit weight	195 kg
Nominal air flow	900 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	7,7 A
Maximal operating current (W)	3,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 900 UH



REGO 900 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=15 mm) only for W

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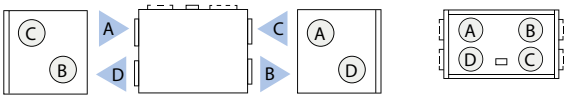

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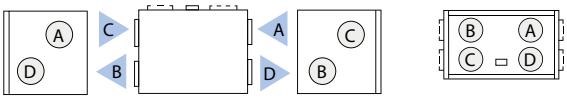


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x400x46 mm

EC Fans

Input power at point 100 Pa / 900 m³/h	165 W
Rotation speed	2500 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	3 kW
Air temperature, Δt	10°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	14,0	15,1	15,8	16,5	17,2	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	2,5	2,5	2,5	2,5	5,3	4,5
Flow rate, dm³/h	108	108	108	216	900	792
Pressure drop, kPa	1	1	1	1	2,0	1,6
Connection, "	1/2					
Temperature in/RH–out/RH, °C/%	14-22				30/50-18/89	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 630 m³/h (175 l/s), 100 Pa.

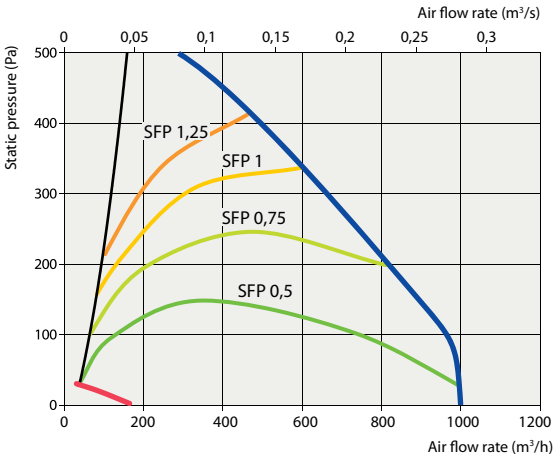
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 900 UH(V)E									
Supply Inlet	23	34	45	51	51	50	45	35	56,2
Supply Outlet	28	40	51	57	58	57	52	44	62,9
Exhaust Inlet	23	34	45	51	51	50	45	36	56,3
Exhaust Outlet	28	40	51	57	58	57	52	44	62,9
Casing	25	36	44	42	43	40	33	25	48,9

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

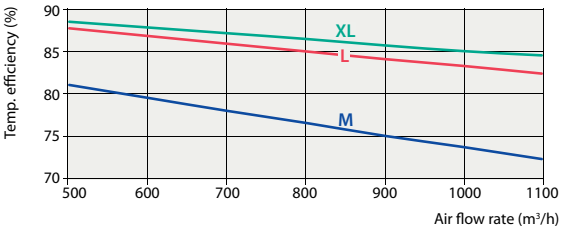
Surroundings	17	28	31	30	34	29	23	15	37,8

Performance REGO 900 U

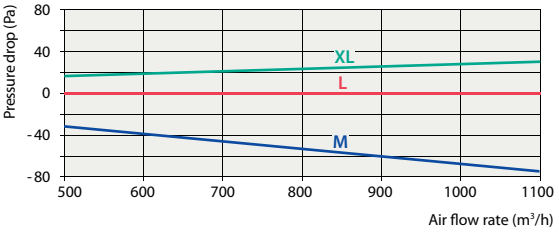


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



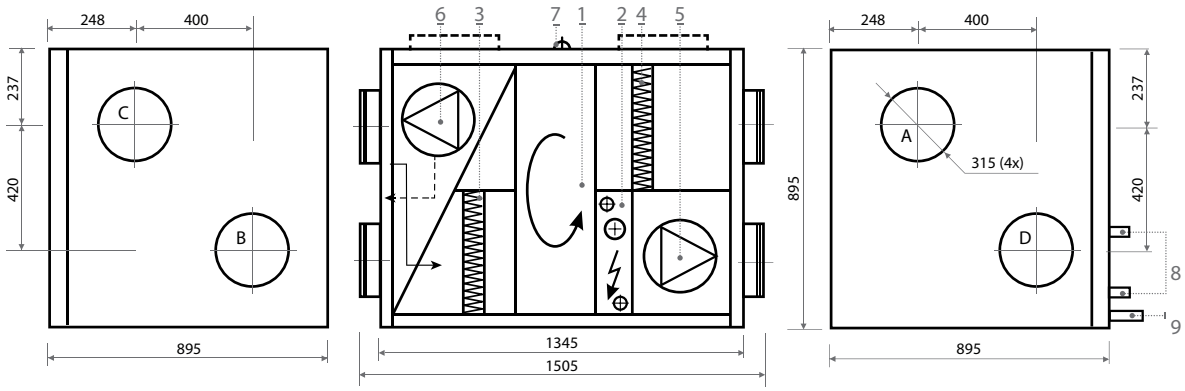
M – option, L – standard, XL – option

KOMPAKT REGO 1200 U

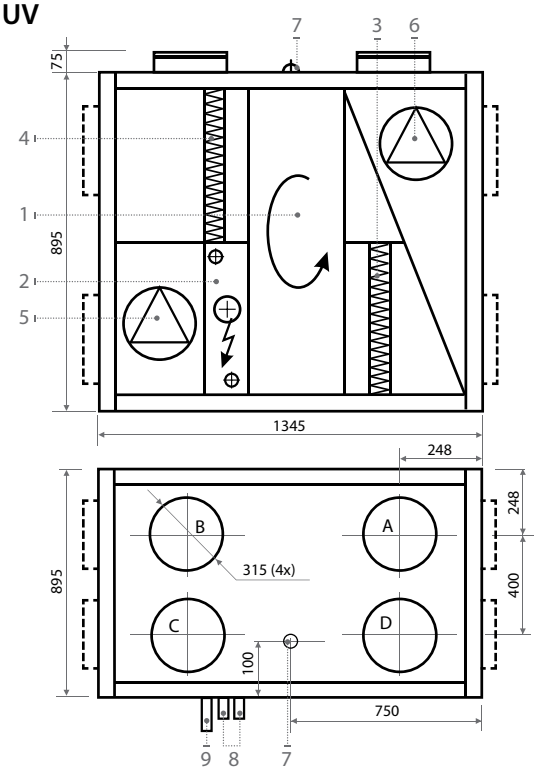
Panel thickness	45 mm
Unit weight V/H	195 kg
Nominal air flow	1200 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	12,5 A
Maximal operating current (W)	6,5 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 1200 UH



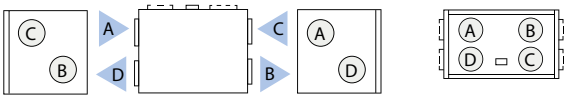
REGO 1200 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=15 mm) only for W

Shown as right



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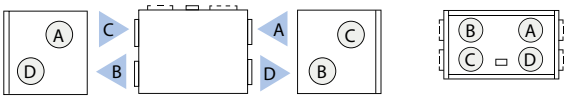


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 86 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x400x46 mm

EC Fans

Input power at point 100 Pa / 1200 m³/h	180 W
Rotation speed	1820 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	4,5 kW
Air temperature, Δt	11,1°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	13,2	14,4	15,2	16,0	16,8	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	3,6	3,6	3,6	3,6	7,0	6,0
Flow rate, dm³/h	144	144	144	324	1188	1044
Pressure drop, kPa	1	1	1	1	3,5	2,7
Connection, "	1/2					
Temperature in/RH–out/RH, °C/%	13,2-22				30/50-18/89	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 840 m³/h (233 l/s), 100 Pa.

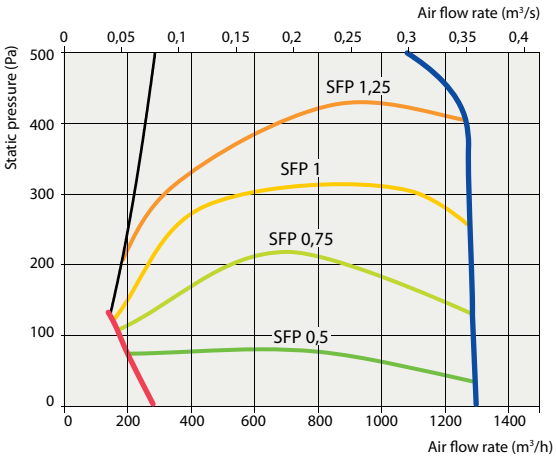
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 1200 UH(V)E									
Supply Inlet	34	40	47	50	49	47	44	34	55,0
Supply Outlet	39	47	53	56	56	54	52	44	61,7
Exhaust Inlet	34	40	47	50	49	48	45	35	55,3
Exhaust Outlet	39	47	53	56	56	54	52	44	61,7
Casing	35	42	46	42	42	38	32	24	49,9

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

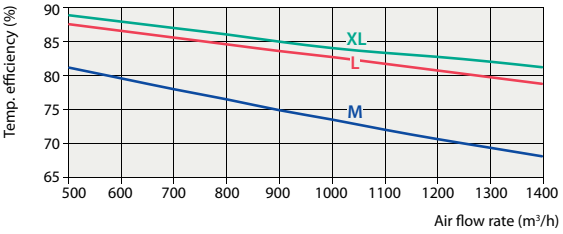
Surroundings	27	34	33	30	33	27	22	14	39,2

Performance REGO 1200 U

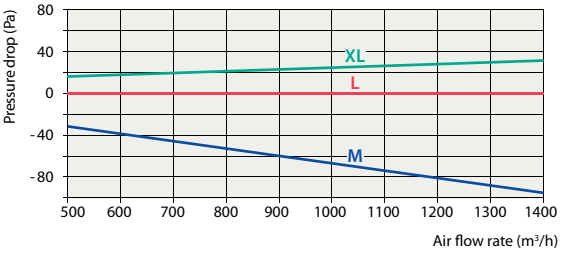


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 30 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



M – option, **L** – standard, **XL** – option

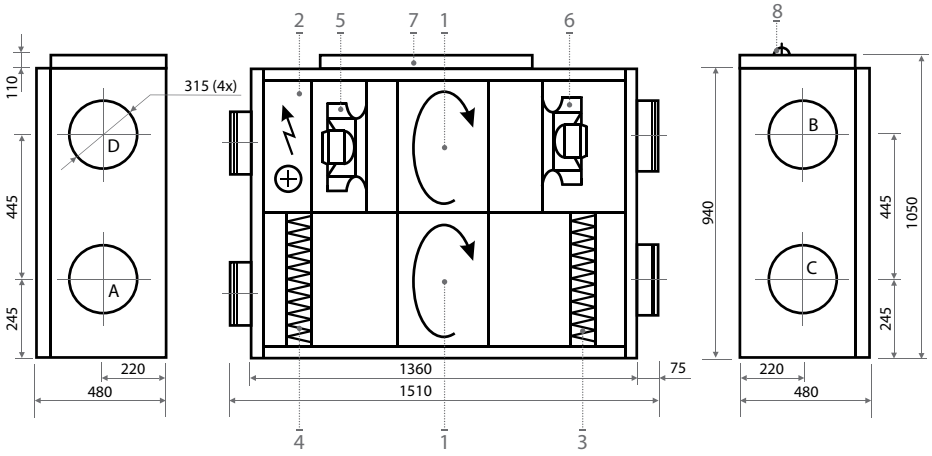
KOMPAKT REGO 1200 P

Panel thickness	50 mm
Unit weight	135 kg
Nominal air flow	1200 m³/h
Supply voltage	3~ 400 V
Maximal operating current	10,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

REGO 1200PE – with removable doors.
REGO 1200PES – with sliding doors.

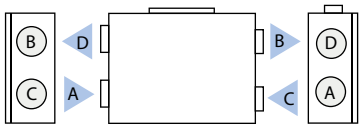
The photo is intended for informational purposes only, exact details may vary.

REGO 1200 PE

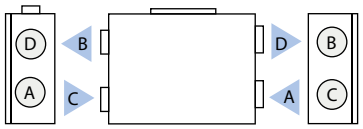


Design
1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Automatic control devices
8. Connection of main cable

Shown as right

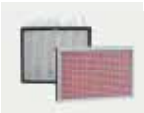


Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	410x420x46 mm

EC Fans

Input power at point 100 Pa / 1200 m³/h	340 W
Rotation speed	2340 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	3 kW
Air temperature, Δt	10°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	10,1	11,9	13,1	14,2	15,4	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 840 m³/h (233 l/s), 100 Pa.

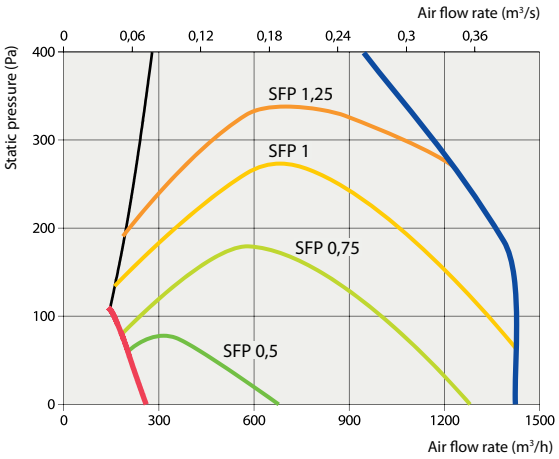
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 1200 PE									
Supply Inlet	37	44	53	55	52	51	48	38	59,5
Supply Outlet	42	51	59	61	60	57	55	46	66,1
Exhaust Inlet	37	44	53	55	52	51	48	38	59,5
Exhaust Outlet	42	51	59	61	60	57	55	47	66,1
Casing	38	46	51	45	44	40	34	26	53,8

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

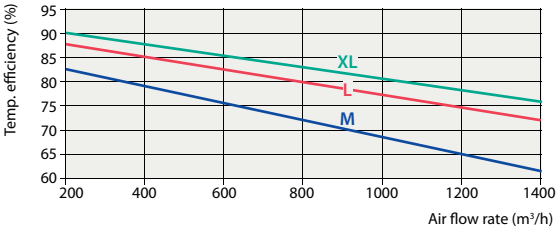
Surroundings	30	38	38	33	35	29	24	16	42,8

Performance REGO 1200 PE

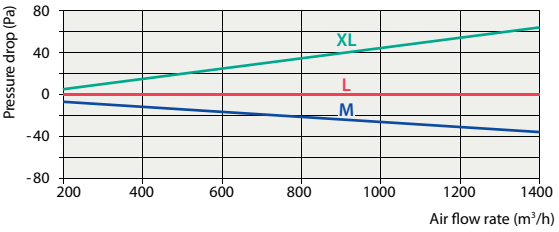


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for PW approximately 30 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



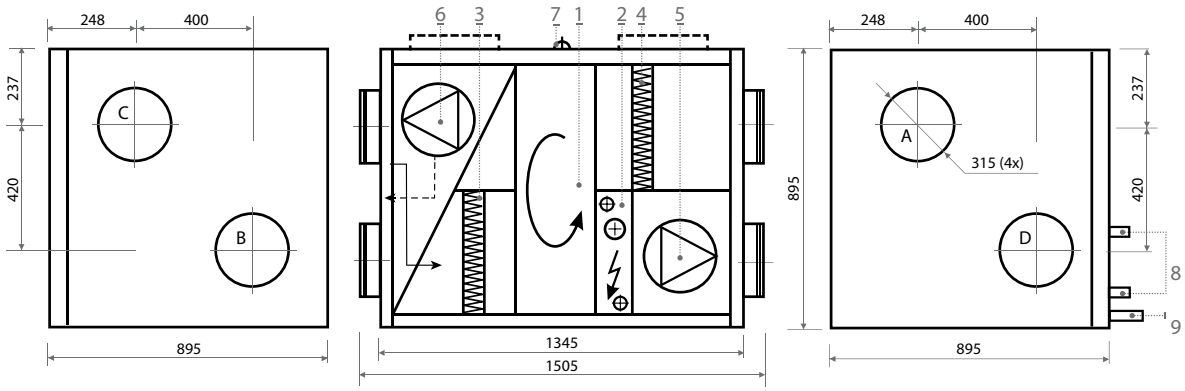
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 1400 U

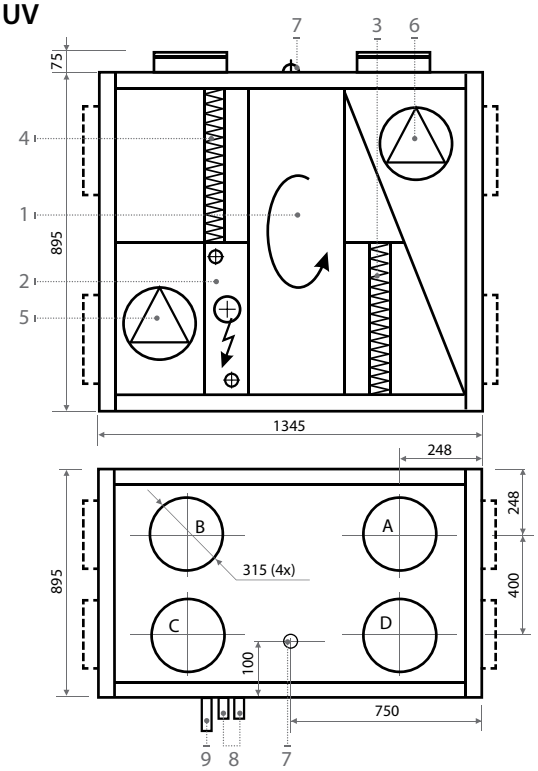
Panel thickness	45 mm
Unit weight V/H	195 kg
Nominal air flow	1400 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	12,7 A
Maximal operating current (W)	6,7 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 1400 UH



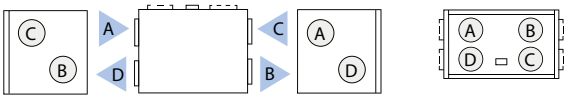
REGO 1400 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=15 mm) only for W

Shown as right



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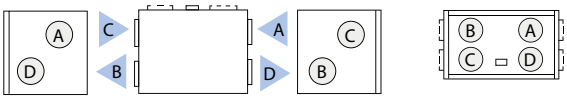


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x400x46 mm

EC Fans

Input power at point 100 Pa / 1400 m³/h	240 W
Rotation speed	2050 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	4,5 kW
Air temperature, Δt	9,6°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,6	14,0	14,8	15,7	16,6	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	4,5	4,5	4,5	4,5	8,2	7,1
Flow rate, dm³/h	216	216	180	396	1404	1224
Pressure drop, kPa	1	1	1	1	4,6	3,5
Connection, "	1/2					
Temperature in/RH–out/RH, °C/%	12,6-22				30/50-18/89	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 980 m³/h (272 l/s), 100 Pa.

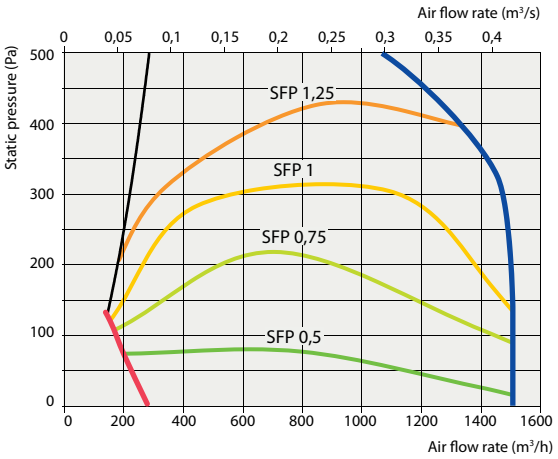
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 1400 UH(V)E									
Supply Inlet	36	42	48	52	51	49	46	36	56,9
Supply Outlet	41	49	55	58	58	56	54	46	63,7
Exhaust Inlet	36	42	48	52	51	50	47	37	57,2
Exhaust Outlet	41	49	55	58	58	56	54	46	63,7
Casing	37	43	47	43	43	40	33	26	51,1

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

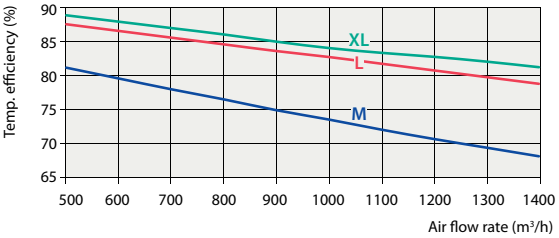
Surroundings	29	35	34	31	34	29	23	16	40,3

Performance REGO 1400 U

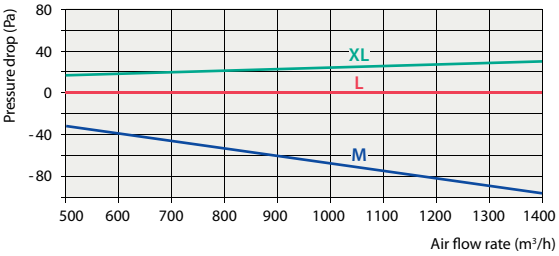


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 30 Pa at 1400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



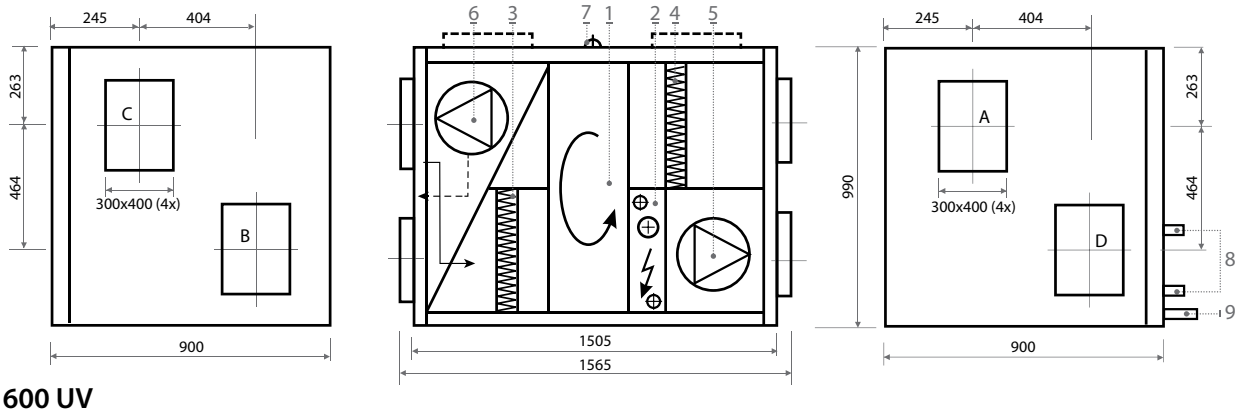
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 1600 U

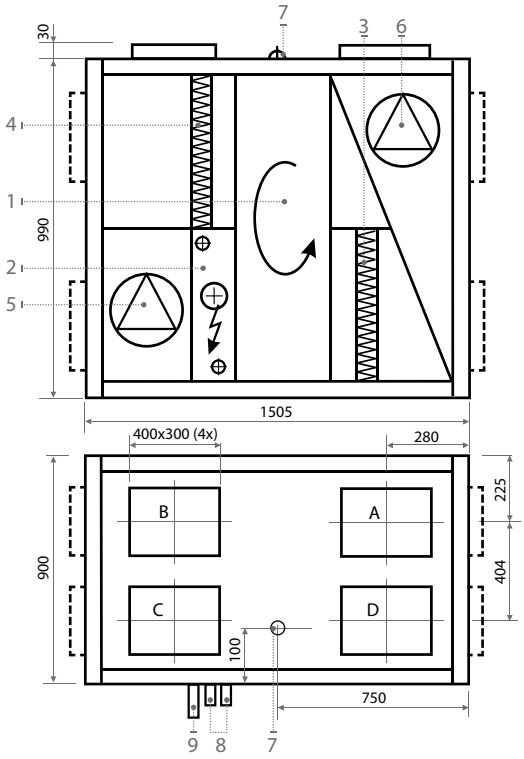
Panel thickness	45 mm
Unit weight	270 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	12,7 A
Maximal operating current (W)	6,7 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 1600 UH



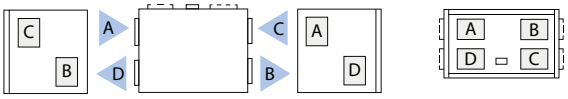
REGO 1600 UV



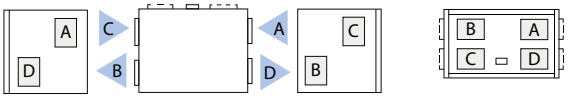
Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=28 mm) only for W

Shown as right



Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x450x46 mm

EC Fans

Input power at point 100 Pa / 1600 m³/h	340 W
Rotation speed	2290 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	4,5 kW
Air temperature, Δt	8,6°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,0	13,5	14,4	15,4	16,3	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	5,5	5,5	5,5	5,5	9,3	8,1
Flow rate, dm³/h	252	252	252	468	1584	1368
Pressure drop, kPa	1	1	1	1	3,0	2,3
Connection, ″	1					
Temperature in–out, °C	12-22				30/50–18/89	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1120 m³/h (272 l/s), 100 Pa.

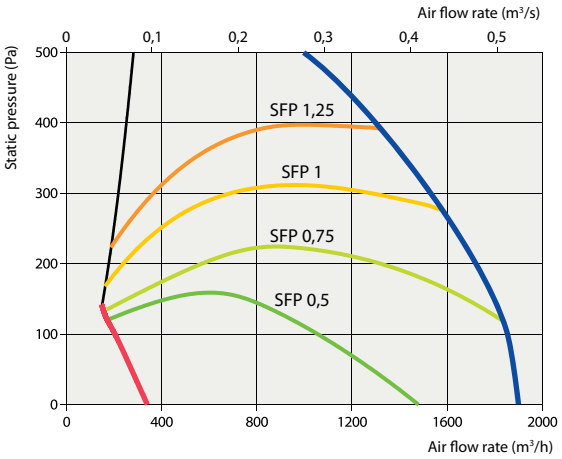
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 1600 UH(V)E									
Supply Inlet	36	41	47	51	52	50	47	38	57,1
Supply Outlet	41	48	54	57	59	57	55	48	64,0
Exhaust Inlet	36	41	47	51	52	51	48	39	57,4
Exhaust Outlet	41	48	54	57	59	57	55	48	64,0
Casing	37	43	46	43	43	40	34	26	50,7

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

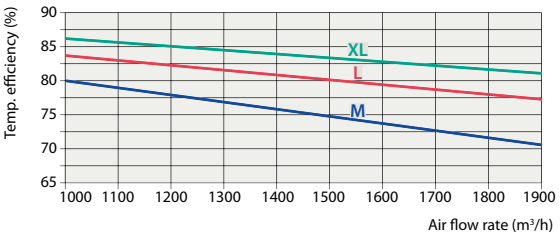
Surroundings	29	35	33	31	34	29	24	16	40,1

Performance REGO 1600 U

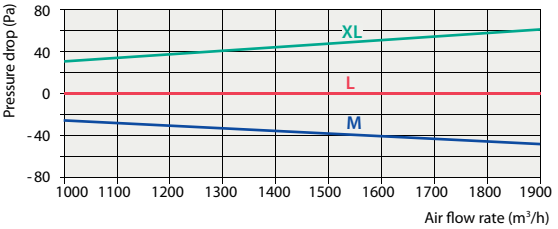


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 30 Pa at 1600 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



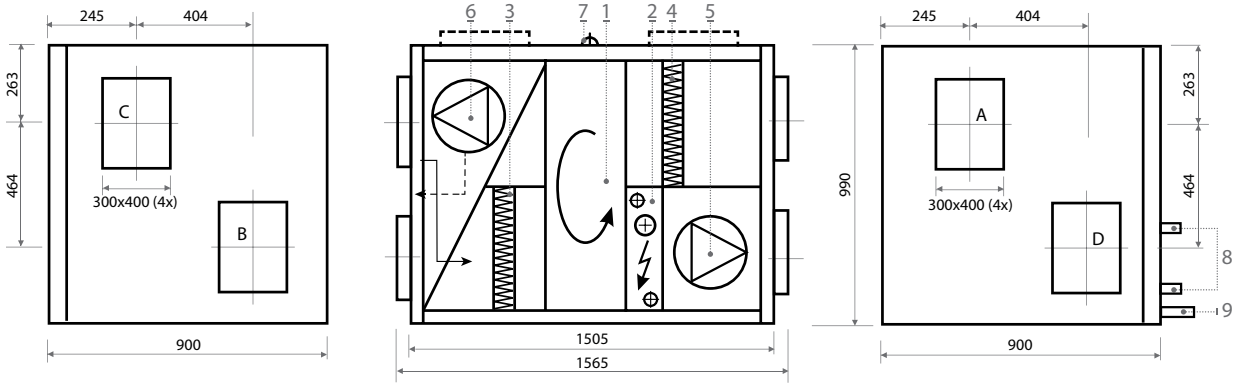
M – option, L – standard, XL – option

KOMPAKT REGO 2000 U

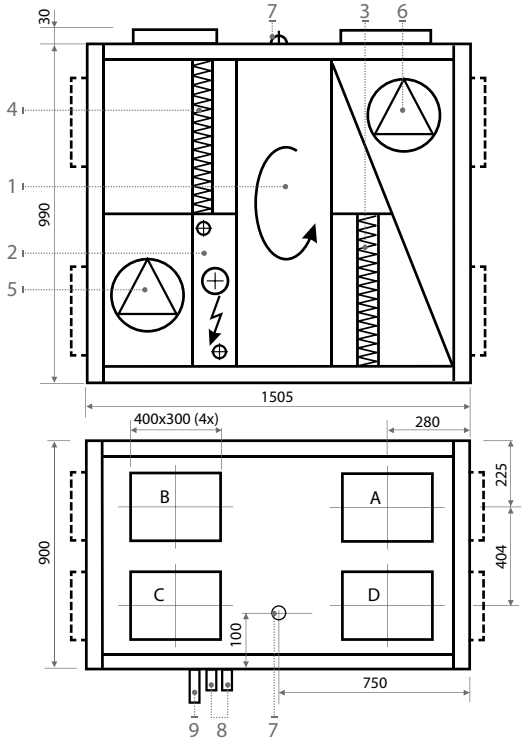
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	14,9 A
Maximal operating current (W)	5,0 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 2000 UH



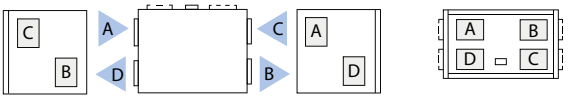
REGO 2000 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=28 mm) only for W

Shown as right



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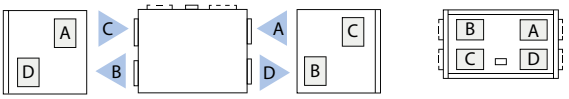


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x450x46 mm

EC Fans

Input power at point 100 Pa / 2000 m³/h	320 W
Rotation speed	2000 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	7,5 kW
Air temperature, Δt	11°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	10,9	12,6	13,7	14,7	15,8	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	7,6	7,6	7,6	7,6	11,7	10,1
Flow rate, dm³/h	324	324	324	648	2016	1728
Pressure drop, kPa	1	1	1	1	4,6	3,5
Connection, "	1					
Temperature in–out, °C	10,9-22				30/50-18/89	26/70-18/88

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1400 m³/h (389 l/s), 100 Pa.

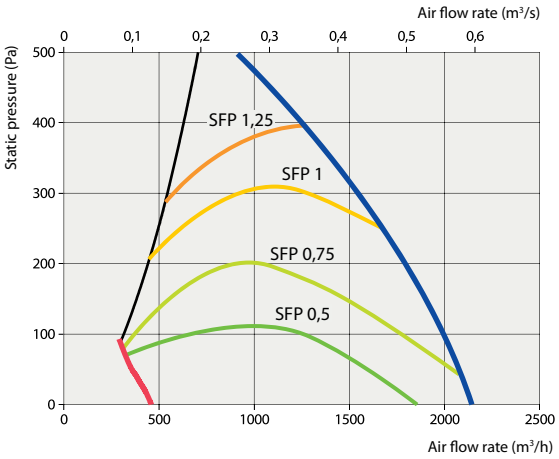
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 2000 UH(V)E									
Supply Inlet	30	43	52	54	52	51	46	38	58,8
Supply Outlet	35	50	59	60	60	58	54	48	65,8
Exhaust Inlet	30	43	52	54	52	52	46	39	59,0
Exhaust Outlet	35	50	59	60	60	58	54	48	65,8
Casing	32	45	50	44	44	41	33	26	53,0

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

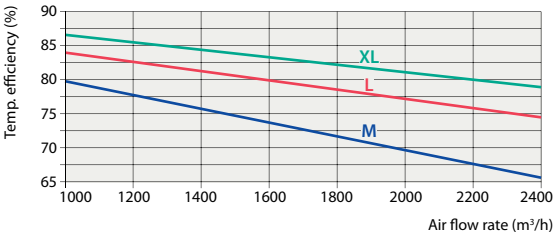
Surroundings	24	37	37	32	35	30	23	16	41,9

Performance REGO 2000 U

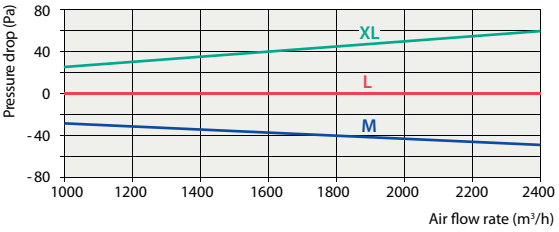


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 30 Pa at 2000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



M – option, L – standard, XL – option

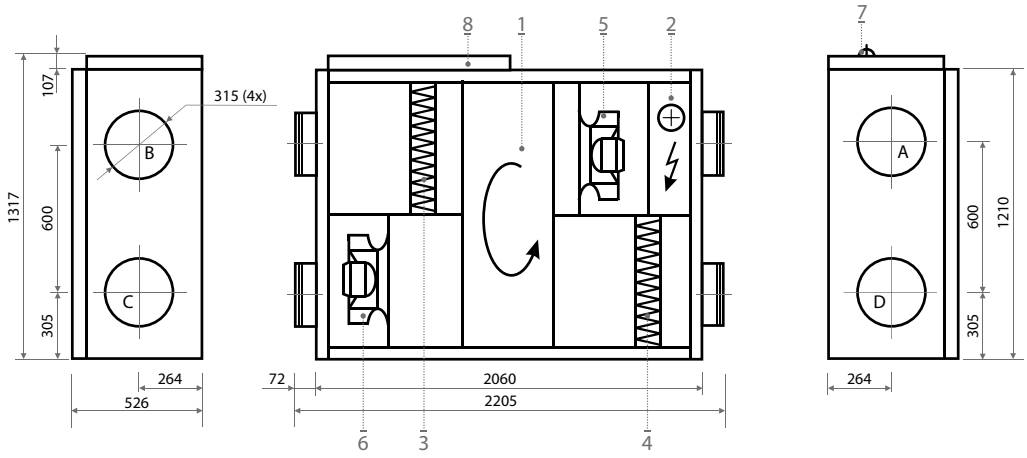
NEW

KOMPAKT REGO 2000 P

Panel thickness	50 mm
Unit weight	280 kg
Nominal air flow	2000 m³/h
Supply voltage	3~ 400 V
Maximal operating current	12,8 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

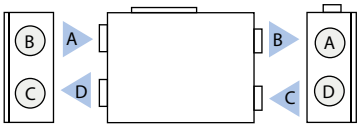
The photo is intended for informational purposes only, exact details may vary.

REGO 2000PE



Design
1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Control system

Shown as right



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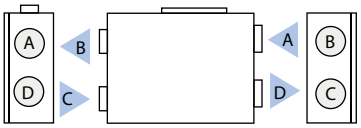
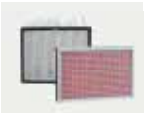


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	560x420x96 mm

EC Fans

Input power at point 100 Pa / 2000 m³/h	550 W
Rotation speed	2900 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

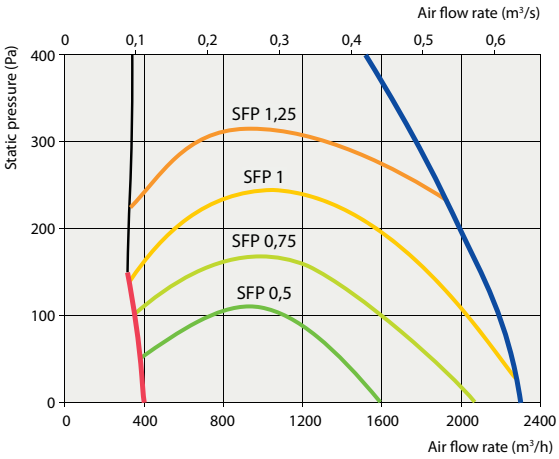
Capacity	4,5 kW
Air temperature, Δt	6,8°C

* Option

Temperature efficiency

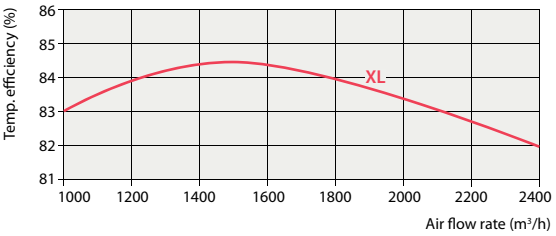
	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,2	13,7	14,6	15,5	16,4	

Performance REGO 2000PE



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter F7, rotary heat exchanger – XL.

Temperature efficiency

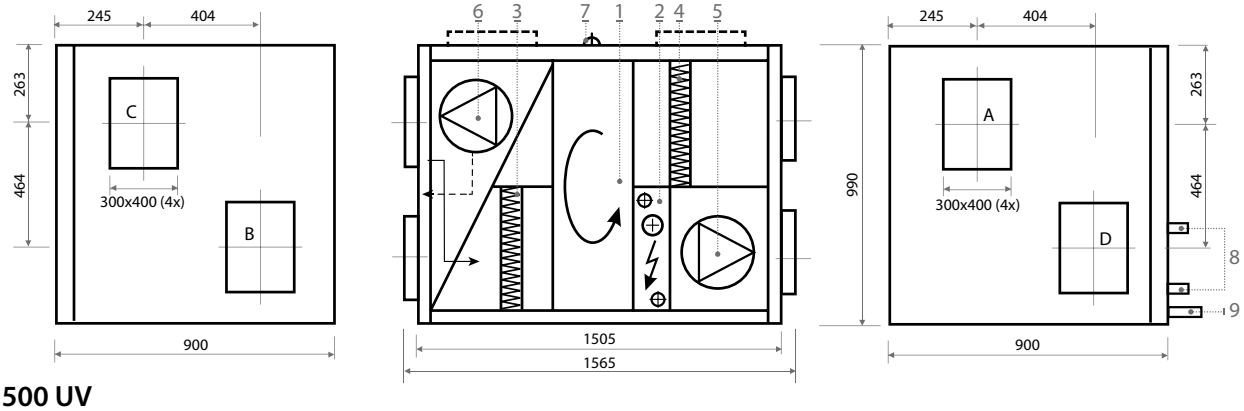


KOMPAKT REGO 2500 U

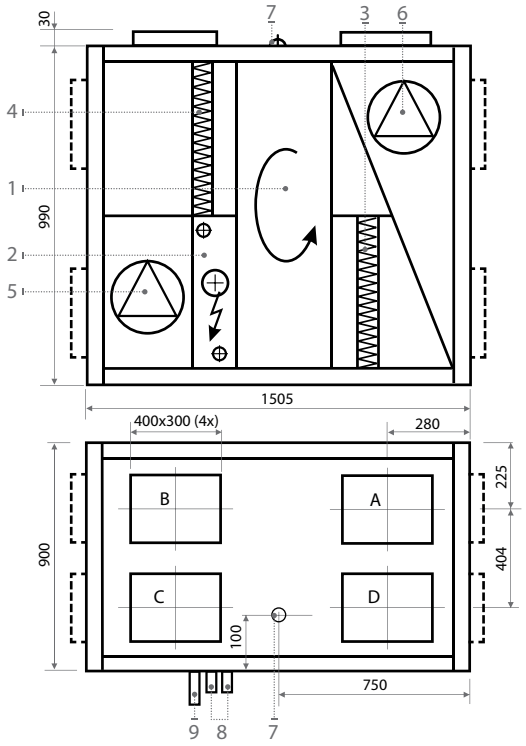
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2500 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	16,7 A
Maximal operating current (W)	6,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 2500 UH



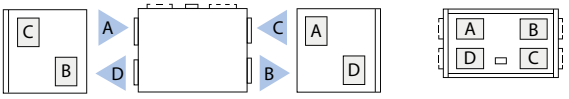
REGO 2500 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tubes only for W
9. Condensate drain (in summertime the water trap must be installed D=28 mm) only for W

Shown as right



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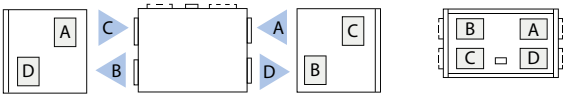


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	800x450x46 mm

EC Fans

Input power at point 100 Pa / 2500 m³/h	550 W
Rotation speed	2600 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	7,5 kW
Air temperature, Δt	9,4°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	9,6	11,5	12,7	13,9	15,1	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	7/12
Capacity, kW	10,6	10,6	10,6	10,6	14,6	12,6
Flow rate, dm³/h	468	468	468	936	2484	2160
Pressure drop, kPa	1	1	1	1	6,9	5,3
Connection, ”	1					
Temperature in–out, °C	9,6-22				30/50-18,5/88	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1750 m³/h (486 l/s), 100 Pa.

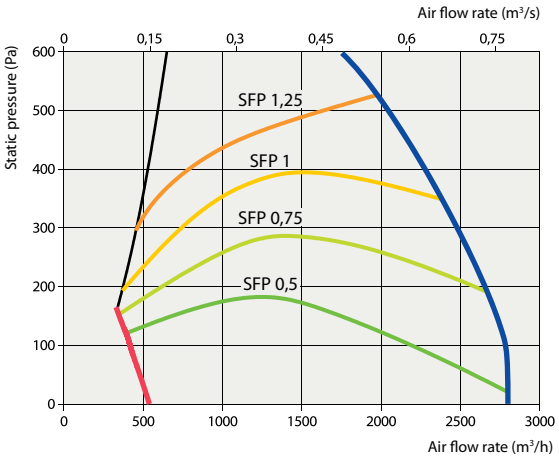
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 2500 UH(V)E									
Supply Inlet	37	45	54	60	59	57	55	50	64,8
Supply Outlet	42	53	61	67	67	65	64	62	72,7
Exhaust Inlet	37	45	54	60	59	58	55	51	65,0
Exhaust Outlet	42	53	61	67	67	65	64	62	72,7
Casing	38	47	52	49	49	45	39	33	56,2

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

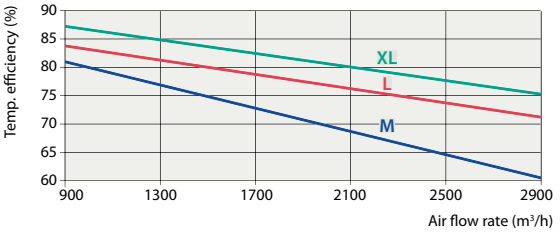
Surroundings	30	39	39	37	40	34	29	23	45,2

Performance REGO 2500 U

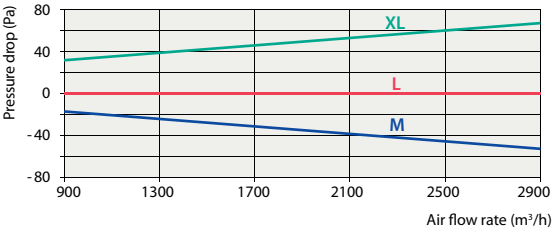


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 35 Pa at 2500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



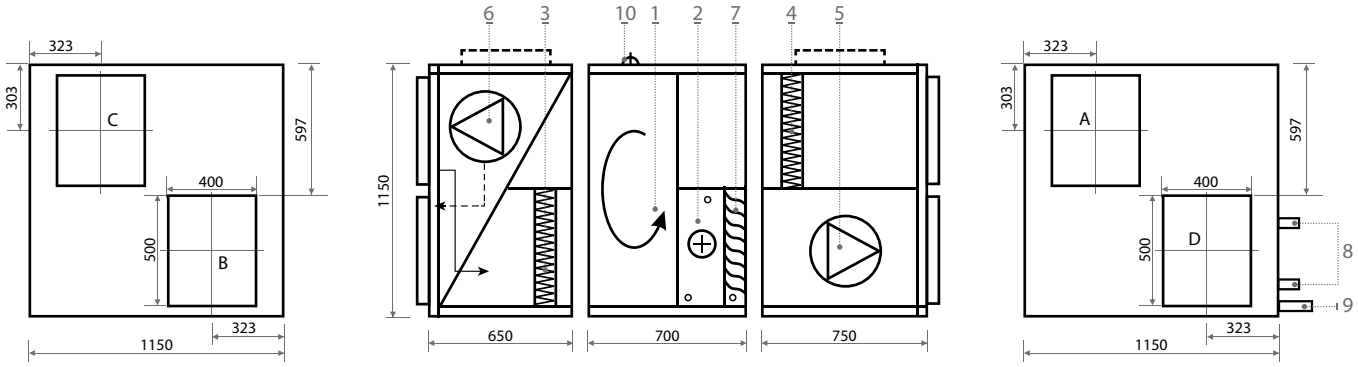
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 3000 U

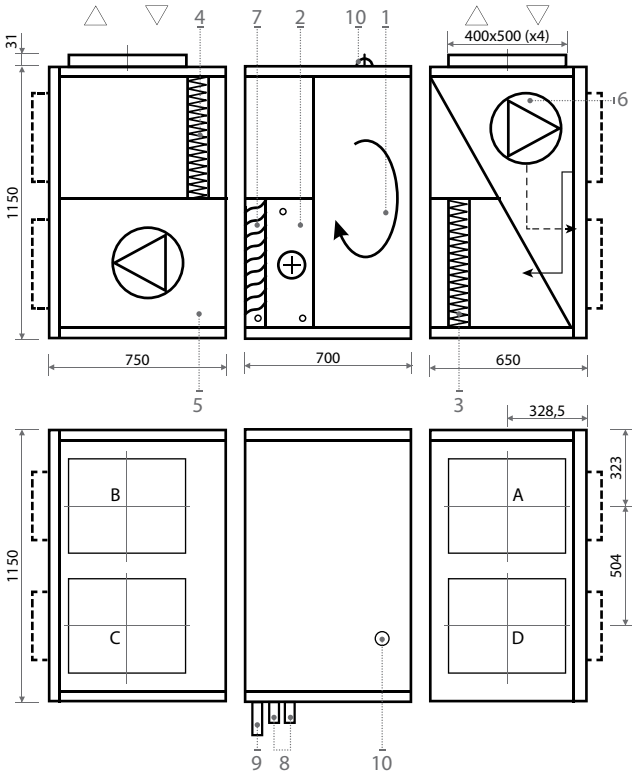
Panel thickness	45 mm
Unit weight	440 (140/160/140) kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	16,8 A
Maximal operating current (W)	4,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 3000 UH



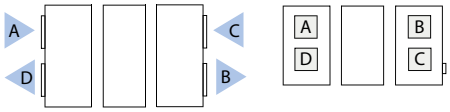
REGO 3000 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Drop eliminator
8. Fluid connection tubes
9. Condensate drain
10. Connection of main cable

Shown as right



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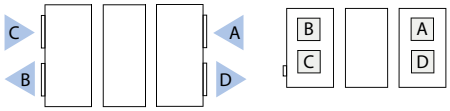


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	525x510x46 mm

EC Fans

Input power at point 100 Pa / 3000 m³/h	650 W
Rotation speed	2200 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	9 kW
Air temperature, Δt	9,2°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12	13,5	14,4	15,3	16,3	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	10,3	10,3	10,3	10,3	17,4	15,0
Flow rate, dm³/h	468	468	432	900	2988	2592
Pressure drop, kPa	1	1	1	1	8,5	6,5
Connection, ”	1					
Temperature in–out, °C	12-22				30/50-18/89	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2100 m³/h (583 l/s), 100 Pa.

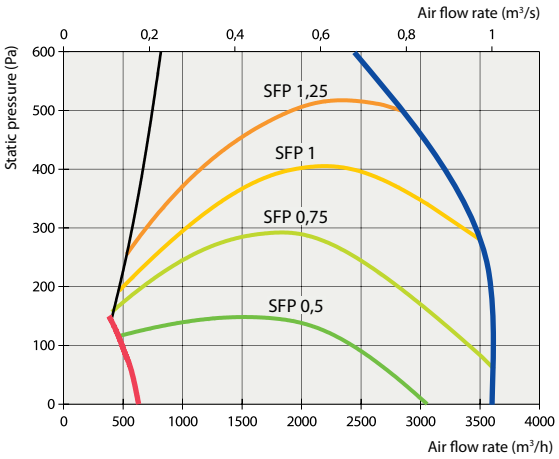
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 3000 UH(V)E									
Supply Inlet	25	32	47	54	53	56	54	47	60,8
Supply Outlet	29	37	53	59	67	67	64	59	71,6
Exhaust Inlet	25	32	47	54	53	57	54	47	61,2
Exhaust Outlet	29	37	53	59	67	67	64	59	71,6
Casing	27	34	46	44	48	46	38	32	52,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

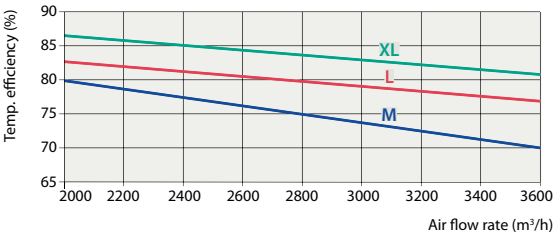
Surroundings	19	26	33	32	39	35	28	22	41,7

Performance REGO 3000 U

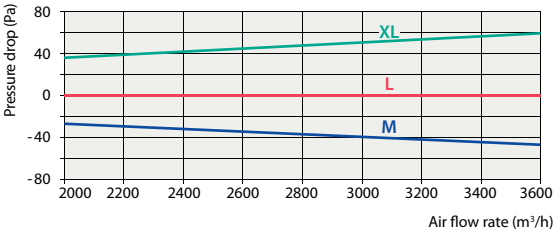


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 15 Pa at 3000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



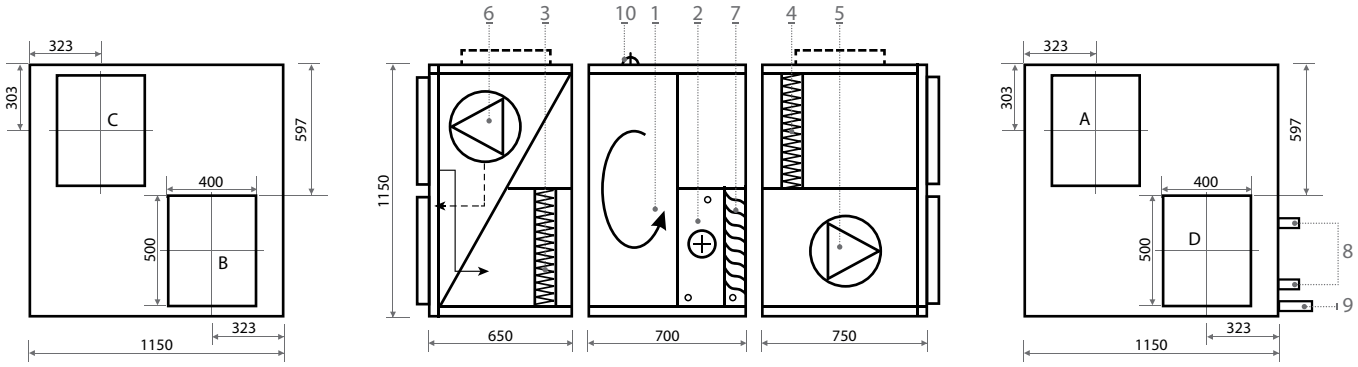
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 4000 U

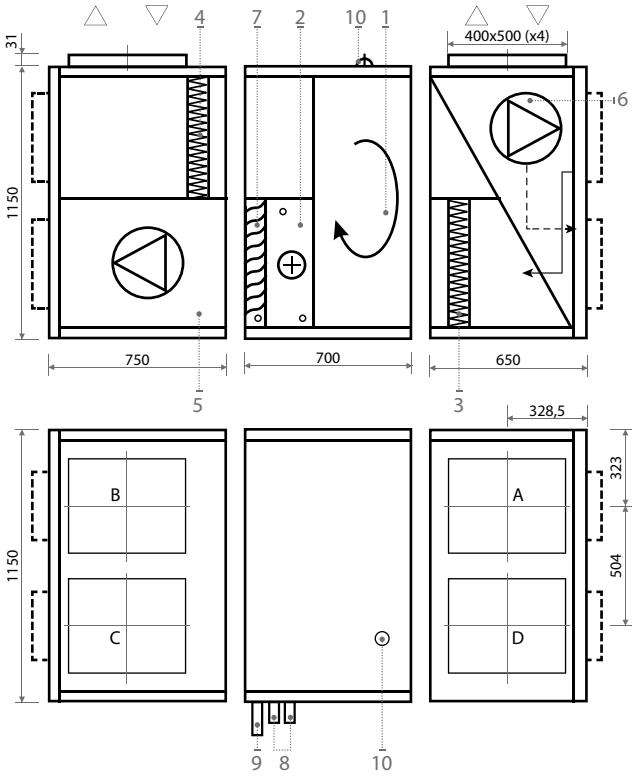
Panel thickness	45 mm
Unit weight	450 (145/160/145) kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	25,5 A
Maximal operating current (W)	4,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 4000 UH



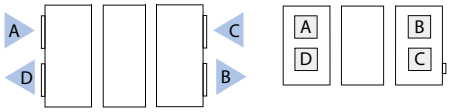
REGO 4000 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Drop eliminator
8. Fluid connection tubes
9. Condensate drain
10. Connection of main cable

Shown as right



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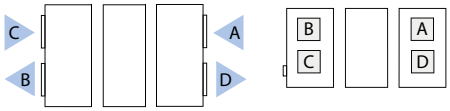


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	525x510x46 mm

EC Fans

Input power at point 100 Pa / 4000 m³/h	650 W
Rotation speed	2000 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	15 kW
Air temperature, Δt	11,4°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	10,5	12,3	13,4	14,5	15,6	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	15,8	15,8	15,8	15,8	23,3	20,1
Flow rate, dm³/h	684	684	684	1368	3996	3456
Pressure drop, kPa	1	1	1	1,8	14	11
Connection, ”	1					
Temperature in–out, °C	10,5-22				30/50-18/89	26/70-18/88

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2800 m³/h (778 l/s), 100 Pa.

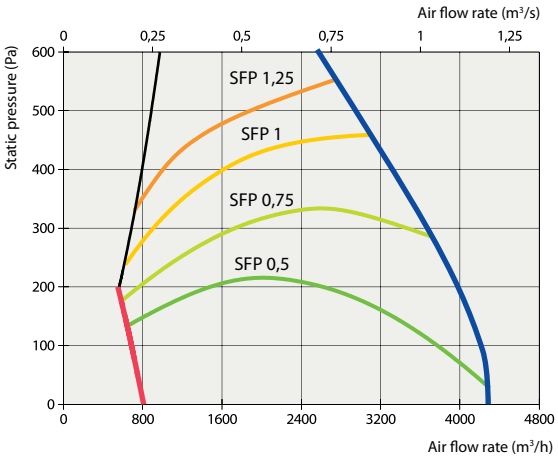
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 4000 UH(V)E									
Supply Inlet	38	44	57	62	60	62	58	48	67,3
Supply Outlet	43	50	62	69	75	72	67	60	78,0
Exhaust Inlet	38	44	57	62	60	63	58	48	67,6
Exhaust Outlet	43	50	62	69	75	72	67	60	78,0
Casing	39	45	54	50	53	49	40	32	58,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

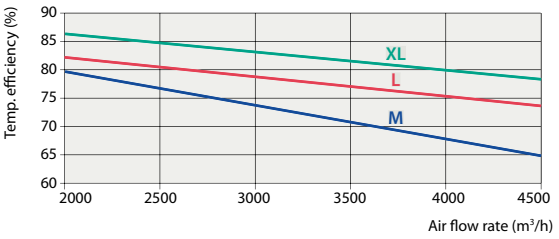
Surroundings	31	37	41	38	44	38	30	22	47,3

Performance REGO 4000 U

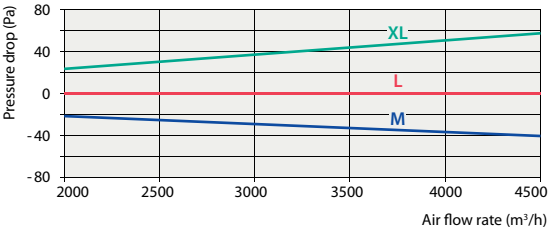


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for H/VW approximately 20 Pa at 4000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



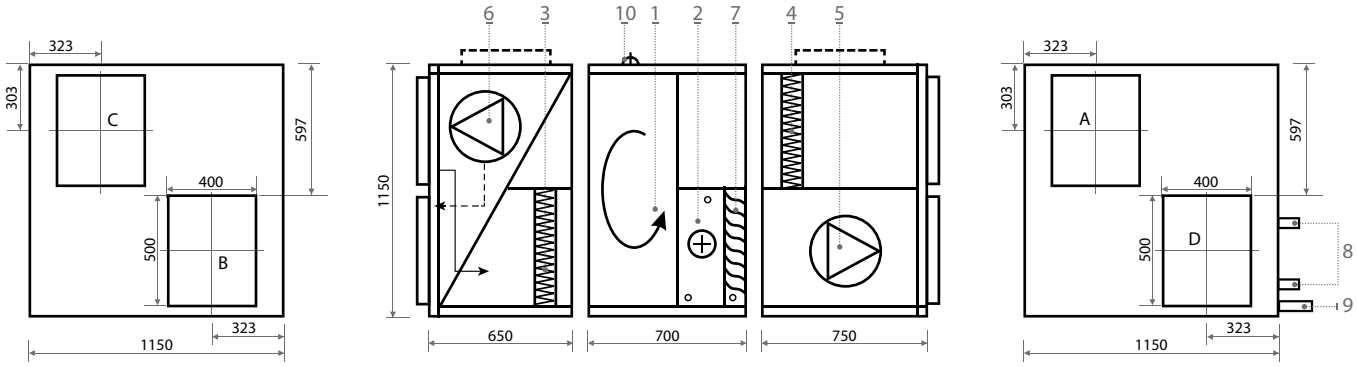
M – option, **L** – standard, **XL** – option

KOMPAKT REGO 4500 U

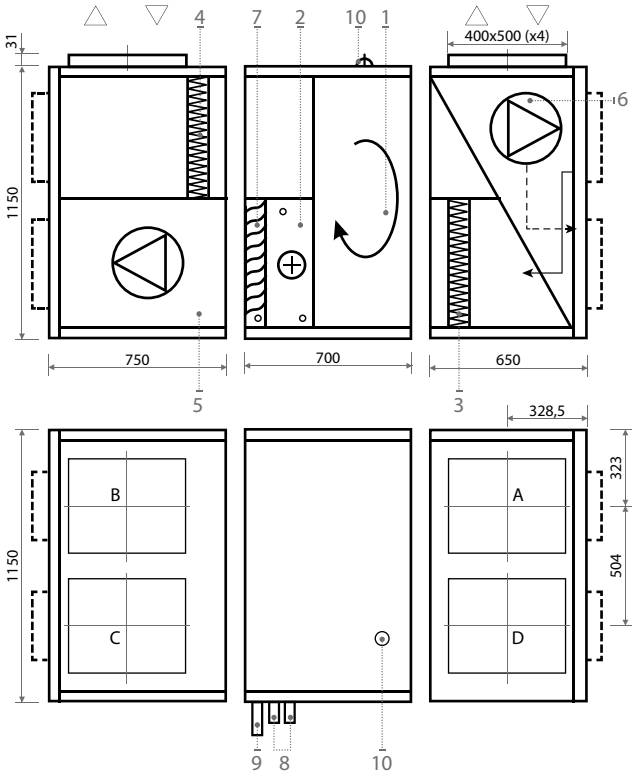
Panel thickness	45 mm
Unit weight	450 (145/160/145) kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	27,3 A
Maximal operating current (W)	6,0 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

REGO 4500 UH



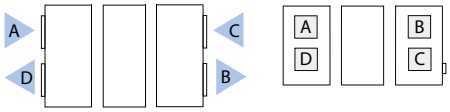
REGO 4500 UV



Design

1. Rotary heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Drop eliminator
8. Fluid connection tubes
9. Condensate drain
10. Connection of main cable

Shown as right



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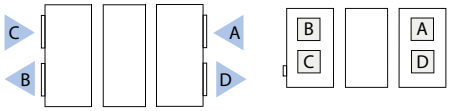


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories

p. 81 p. 83 p. 86 p. 88 p. 84 p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	525x510x46 mm

EC Fans

Input power at point 100 Pa / 4500 m³/h	980 W
Rotation speed	2280 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	15 kW
Air temperature, Δt	9,8°C

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	9,8	11,7	12,9	14,0	15,2	

Changeover water heating/cooling exchanger (CHW)

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	
Capacity, kW	18,8	18,8	18,8	18,8	24,5	22,7
Flow rate, dm³/h	828	828	828	1620	4212	3888
Pressure drop, kPa	1	1	1	2,5	16	14
Connection, ”	1					
Temperature in–out, °C	9,8-22				30/50-18,5/88	26/70-18/95

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 3150 m³/h (875 l/s), 100 Pa.

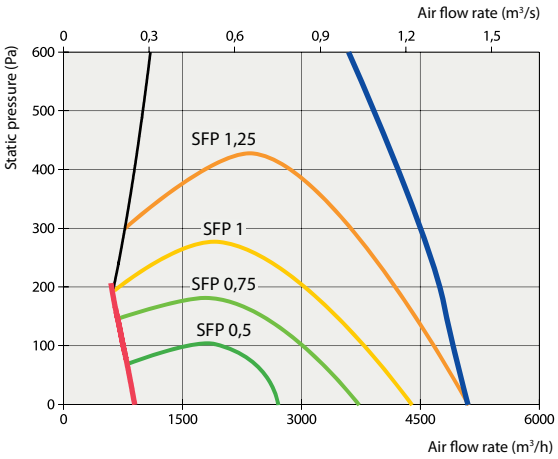
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 4500 UH(V)E									
Supply Inlet	40	37	58	61	59	62	57	51	66,9
Supply Outlet	43	42	60	67	73	73	67	63	77,2
Exhaust Inlet	40	37	58	61	59	62	57	51	66,9
Exhaust Outlet	43	42	60	67	73	73	67	63	77,2
Casing	40	39	54	49	52	50	40	34	57,9

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

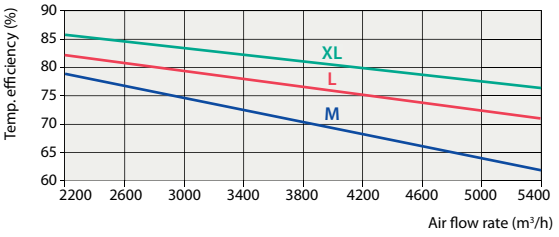
Surroundings	32	31	41	37	43	39	30	24	46,6

Performance REGO 4500 U

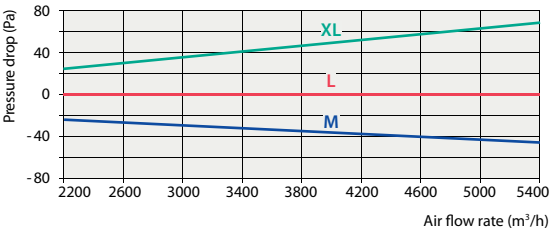


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for HW approximately 25 Pa at 4500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



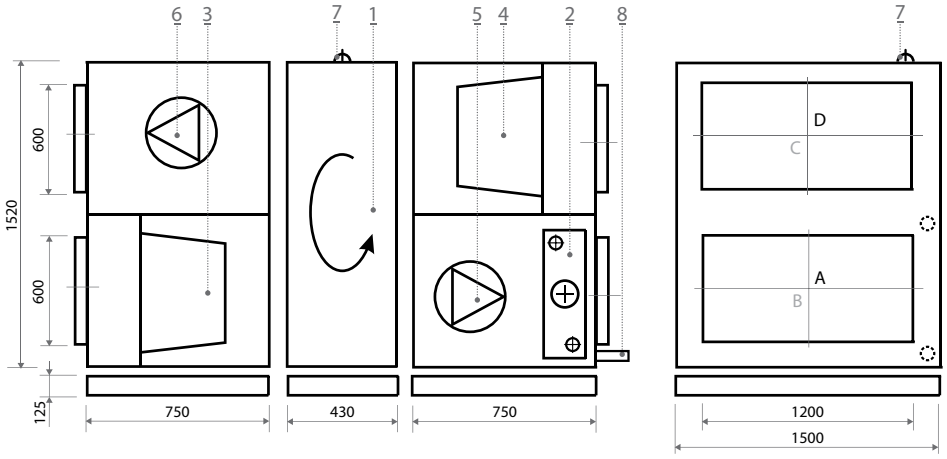
M – option, L – standard, XL – option

KOMPAKT REGO 7000

Panel thickness	45 mm
Unit weight	780 (270/230/280) kg
Nominal air flow	7000 m³/h
Supply voltage	3~ 400 V
Maximal operating current	9,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C5

The photo is intended for informational purposes only, exact details may vary.

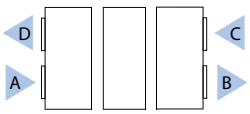
REGO 7000 H



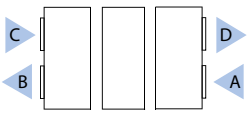
Design

1. Rotary heat exchanger
2. Water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Fluid connection tube

Shown as right

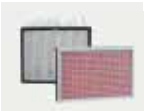


Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592-12x500 mm
Quantity	2 pcs.

EC Fans

Input power at point 100 Pa / 7000 m³/h	1400 W
Rotation speed	1680 rpm
Protection level, IEC 34-5	IP 54

* Option

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	10,9	12,6	13,6	14,7	15,7	

Hot water air heater (HW)

	Winter			
Water temperature in/out, °C	90/70	80/60	60/40	45/35
Capacity, kW	26,6	26,6	26,6	26,6
Flow rate, dm³/h	1188	1152	1152	2304
Pressure drop, kPa	7,2	7,3	7,6	27
Connection, "	1			
Temperature in–out, °C	10,9-22			

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 4900 m³/h (1361 l/s), 100 Pa.

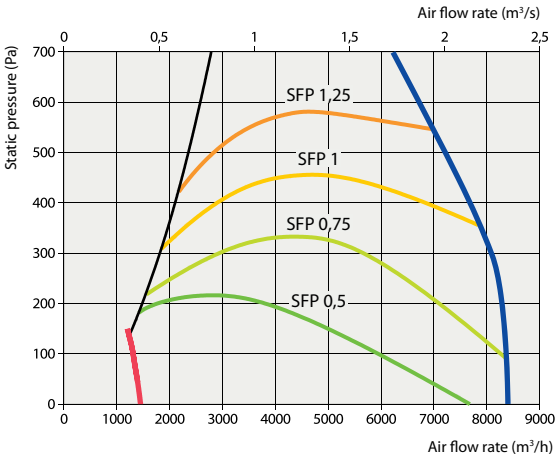
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
REGO 7000 HW									
Supply Inlet	29	38	56	59	56	55	52	49	63,3
Supply Outlet	35	45	61	70	73	69	65	59	76,3
Exhaust Inlet	29	38	56	59	56	55	52	49	63,3
Exhaust Outlet	36	46	63	72	75	71	68	64	78,5
Casing	32	41	54	52	53	49	41	35	58,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

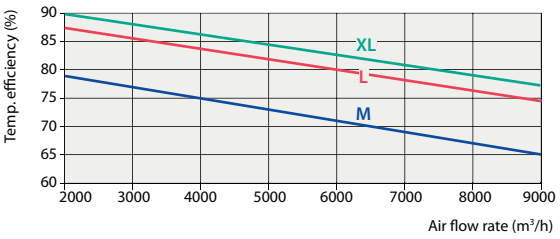
Surroundings	24	33	41	40	44	38	31	25	47,3

Performance REGO 7000

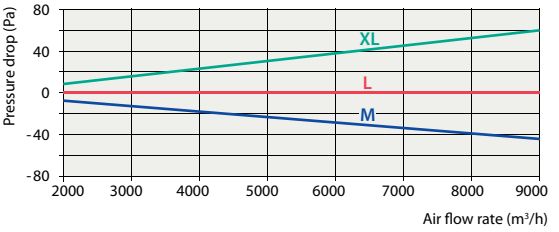


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Additional pressure drop



M – option, L – standard, XL – option

KOMFOVENT KOMPAKT RECU Units

KOMFOVENT KOMPAKT RECU air handling units with plate heat exchanger.
Capacity range from 220 to 8 000 m^3/h.

Advantages of KOMFOVENT KOMPAKT RECU Units

Heat Energy Saving

In the process of ventilation the heat of the exhaust air is recovered to the supplied air – the unit allows up to 65% heat recovery with standard plate heat exchanger and up to 92% with highly efficient polystyrene plate heat exchanger.

Totally separated airflows

The supply and exhaust airflows are separated, thus making possible utilization of the heat of the extracted foul air.

Long term efficient operation

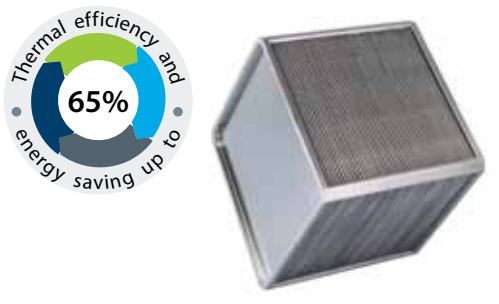
The absence of the conditions of movable parts effective heat exchange and long run.

Low noise level

KOMFOVENT KOMPAKT air handling units are equipped with silently operating fans and sound insulation, which ensures low noise level.

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

* temperature after the heat exchanger



Standard plate heat exchanger

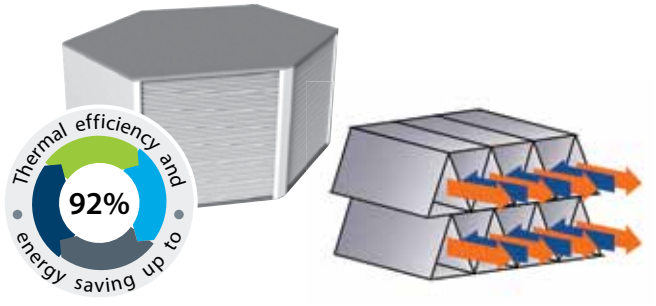
Design:

- A packet of thin aluminum plates with spacing left between them.
- Exhaust warm air flows through every second channel between the plates warming up fresh air flowing through the remaining channels.
- To prevent the plates from bending under the impact of differential pressure of the air flows, strengthening gaskets are inserted between the plates.
- Rough surface of the aluminum plates generates the turbulent air stream thus intensifying heat exchange.

Anti-frosting Protection

Decreasing of the outdoor air temperature below -10°C (it is an approximate value depending on the relative humidity of the air flows and temperature) the exhaust air enhances the danger of the heat exchanger freezing.
Defrosting of the heat exchanger is controlled automatically in response to sensor signals.
Temperature sensors are supplied with the unit.

Note: The water trap must be installed for condensate drain!



Counterflow polystyrene plate heat exchanger

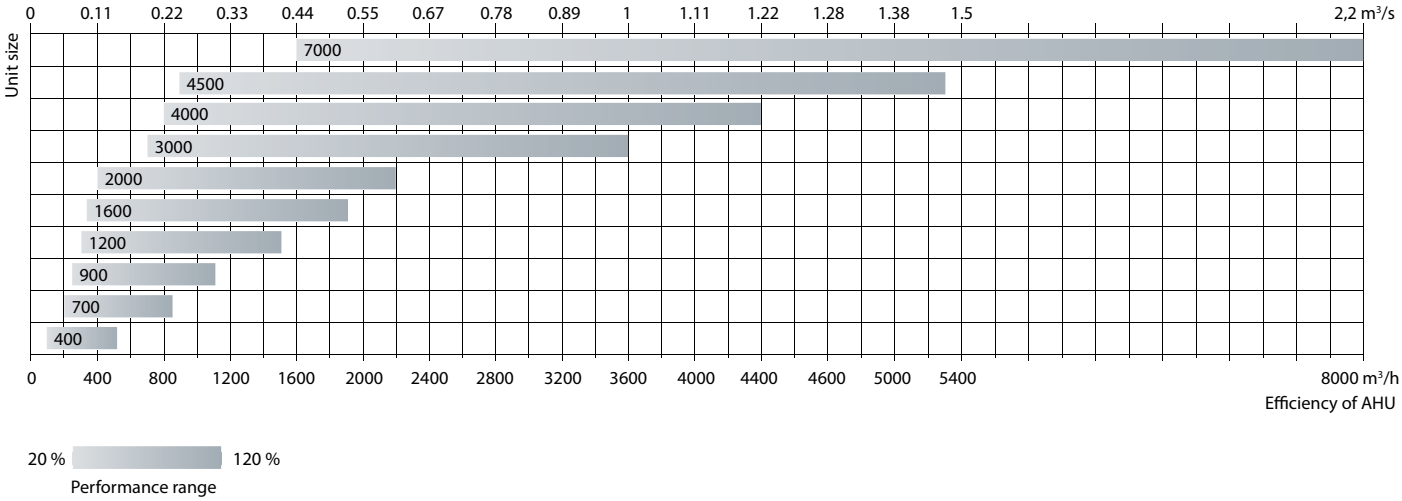
This type of exchanger is available for size RECU 700CF (page 50). The exchanger is constructed completely from polystyrene – from the foils to the casing. Only solvent-free elastic adhesives are used.

- The triangular ducts in the recuperator are arranged so that each one is surrounded by parallel ducts in which the air is in counter flow.
- Each fresh-air duct is surrounded by three ducts filled with warmer exhaust air. Likewise, each duct with exhaust air is surrounded by three fresh-air ducts. This maximizes the surface area over which energy can efficiently be transferred, recaptured and reused.
- This design principle is what makes this exchanger's outstanding performance possible.

Anti-frosting Protection

If the temperature of the exhaust air drops below 0°C, freezing may occur at the exhaust air corner of the heat exchanger. To avoid freezing the temperature sensor is installed in this zone to give a signal to the automatic control. If for some period of time temperature will not rise up, by-pass damper is opened to redirect outdoor air through by-pass channel and only warm exhaust air flows through exchanger to defrost risky zone. For the conditions when outdoor temperatures may be lower than -4°C , duct mounted preheater is recommended.

Standard sizes of KOMFOVENT KOMPAKT RECU units

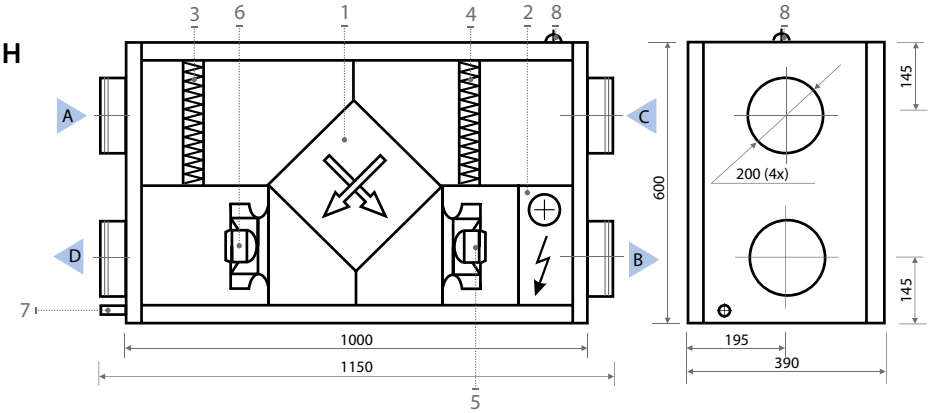


KOMPAKT RECU 400

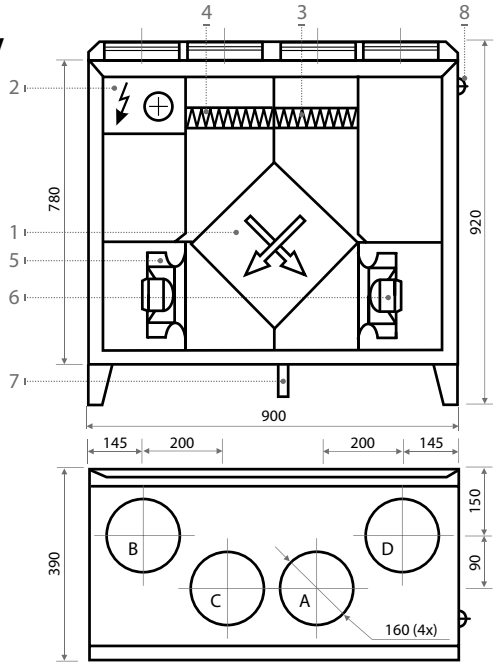
Panel thickness	45 mm
Unit weight V/H	62/55 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230 V
Maximal operating current	10,7 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 400 H



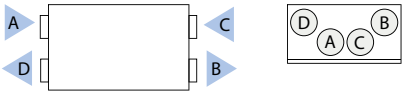
RECU 400 V



Design

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Connection of main cable

Shown as right



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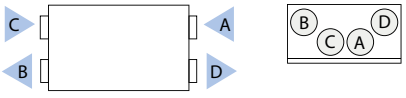
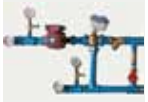


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84


p. 86


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	300x195x46 mm

EC Fans

Capacity	105 W
Rotation speed	3570 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	2 kW
Air temperature, Δt	14,4°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	7,6	9,1	10,9	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 280 m³/h (78 l/s), 100 Pa.

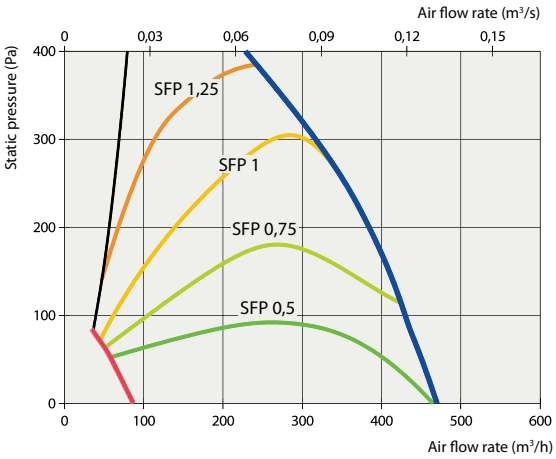
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 400 H(V)E									
Supply Inlet	18	28	36	41	44	42	39	34	48,4
Supply Outlet	24	35	44	49	52	52	50	44	57,4
Exhaust Inlet	18	28	36	41	44	42	39	34	48,4
Exhaust Outlet	24	35	44	49	52	53	50	45	57,8
Casing	22	31	38	37	39	38	31	25	44,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

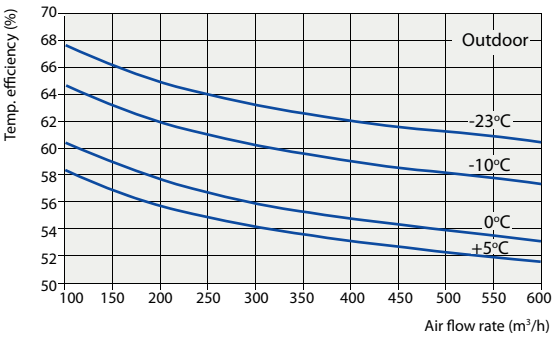
Surroundings	14	23	25	25	30	27	21	15	33,7

Performance RECU 400



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



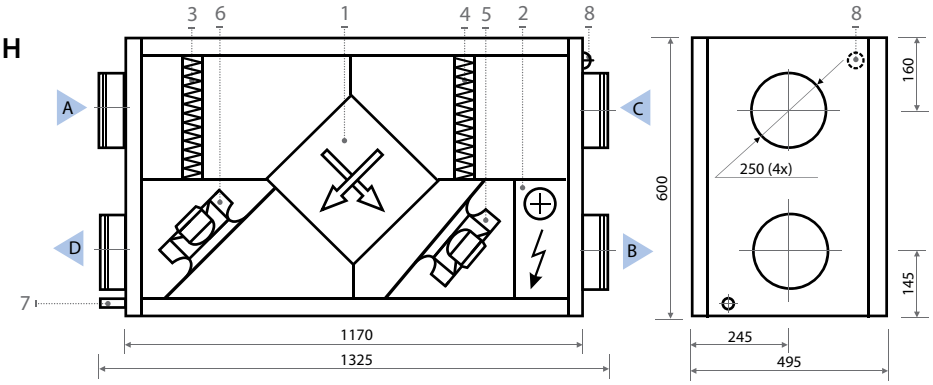
Application: 21°C, RH 45% indoor

KOMPAKT RECU 700

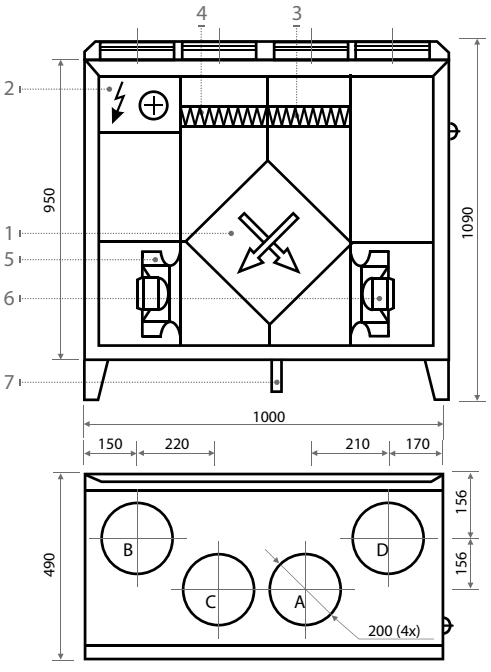
Panel thickness	45 mm
Unit weight V/H	85/75 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current EC/AC	13,7/12,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 700 H



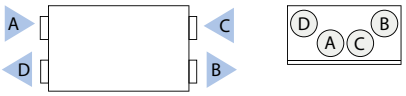
RECU 700 V



Design

1. Plate heat exchanger
2. Electric Air Heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Connection of main cable

Shown as right



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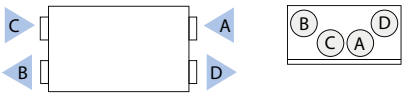


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	400x235x46 mm

EC Fans

Capacity	164/240 W
Rotation speed	2570/2800 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	2,5 kW
Air temperature, Δt	10,7°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	7,3	9,9	11,4	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 490 m³/h (136 l/s), 100 Pa.

Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 700 H(V)E-EC									
Supply Inlet	29	34	44	48	49	44	40	34	53,2
Supply Outlet	36	41	52	56	58	55	51	44	62,2
Exhaust Inlet	29	34	44	48	49	44	40	34	53,2
Exhaust Outlet	36	41	52	56	58	55	52	46	62,4
Casing	33	37	45	42	43	39	32	25	49,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	25	29	32	30	34	28	22	15	38,2

A-weighted sound power levels L_wA, dB(A).

Operation point: 685 m³/h (190 l/s), 196 Pa.

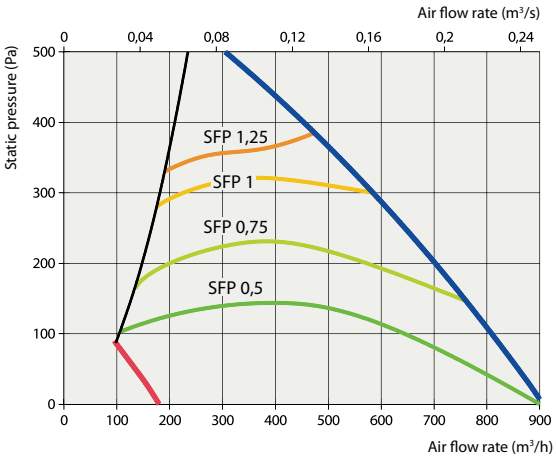
RECU 700 H(V)E-AC									
Supply Inlet	31	46	53	58	56	48	42	37	61,3
Supply Outlet	34	49	57	63	63	57	52	45	67,1
Exhaust Inlet	31	46	53	58	56	48	42	37	61,3
Exhaust Outlet	34	49	57	63	63	57	53	46	67,1
Casing	28	42	49	46	45	39	32	25	52,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

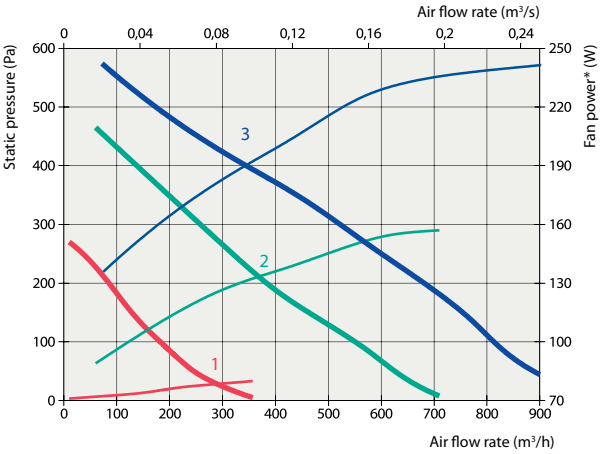
Surroundings	20	34	36	34	36	28	22	15	41,3

Performance RECU 700-EC



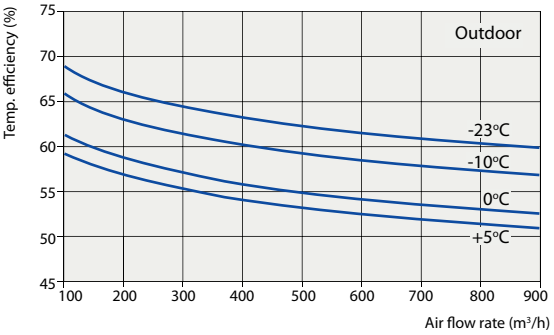
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance RECU 700-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



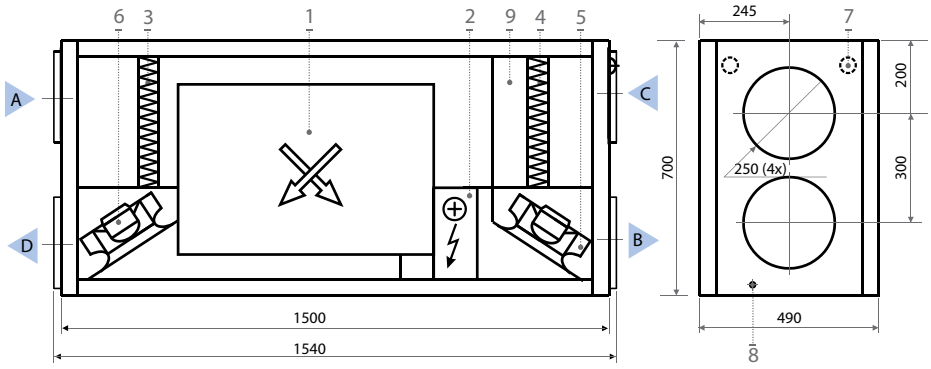
Application: 21°C, RH 45% indoor

KOMPAKT RECU 700

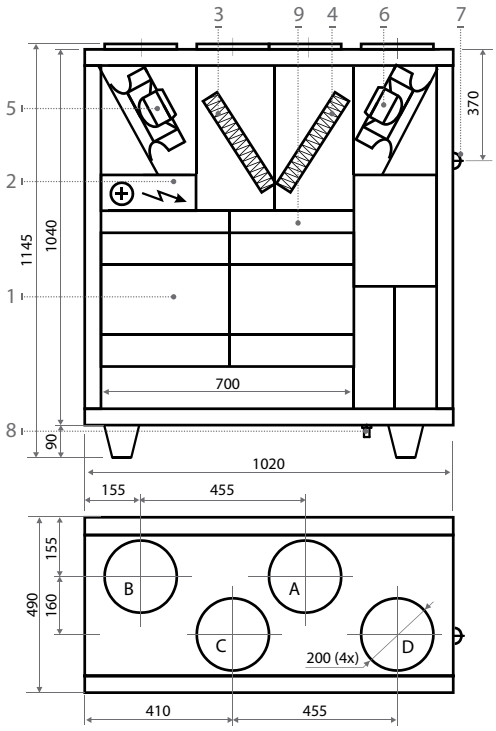
Panel thickness	45 mm
Unit weight	95 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current	11,5 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 700 HECF



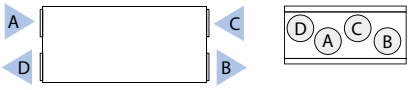
RECU 700 VECF



Design

1. Counterflow polystyrene plate heat exchanger
2. Electric Air Heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Condensate drain (D=15 mm)
9. By-pass damper

Shown as right



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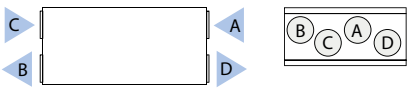
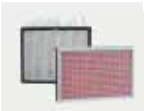


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	390x300x46 mm

EC Fans

Capacity	164 W
Rotation speed	2570 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	2 kW
Air temperature, Δt	8,2°C

* Option

Temperature efficiency wet

		Supply		Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	15,8	17	17,5	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 490 m³/h (136 l/s), 100 Pa.

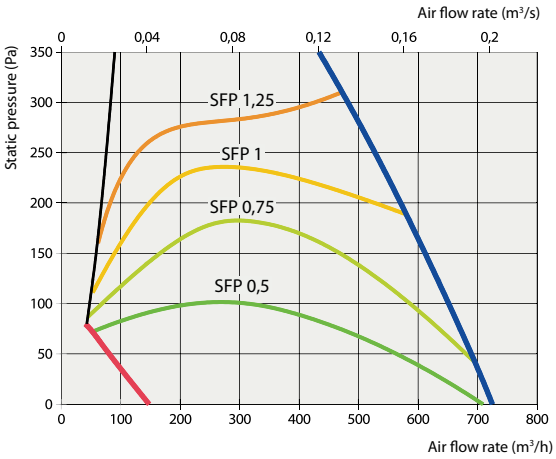
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 700 V(H)ECF									
Supply Inlet	33	37	48	54	53	47	42	36	57,7
Supply Outlet	40	45	57	63	62	58	54	48	67,0
Exhaust Inlet	33	37	48	54	53	47	42	37	57,7
Exhaust Outlet	40	45	57	63	62	58	54	48	67,0
Casing	36	40	49	46	45	41	34	27	52,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

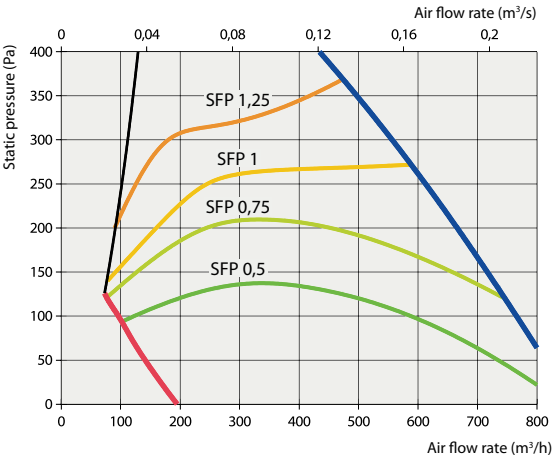
Surroundings	28	32	36	34	36	30	24	17	41,2

Performance RECU 700VECF



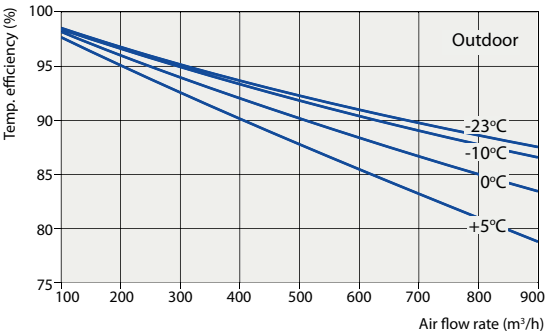
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance RECU 700HECF



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



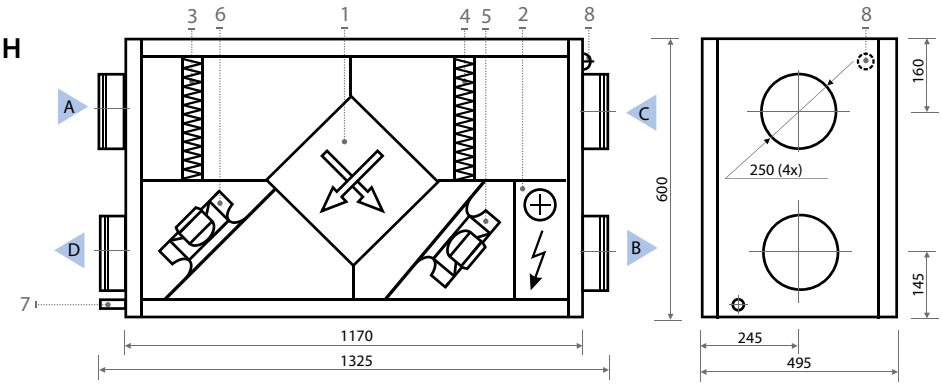
Application: 21°C, RH 45% indoor

KOMPAKT RECU 900

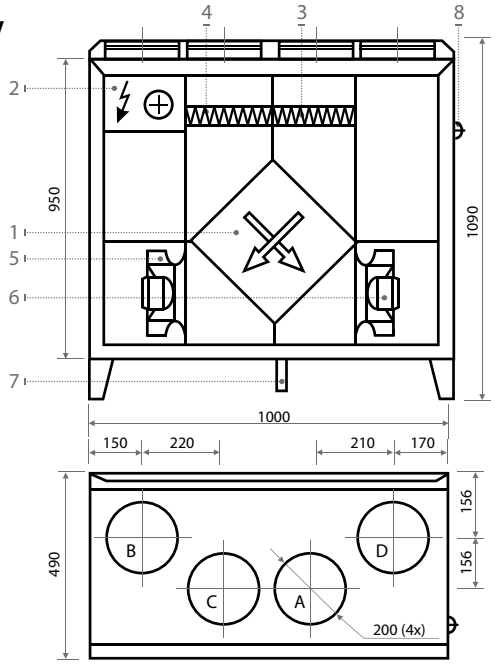
Panel thickness	45 mm
Unit weight V/H	90/78 kg
Nominal air flow	900 m³/h
Supply voltage	3~ 400 V
Maximal operating current EC/AC	9,3/10,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 900 H



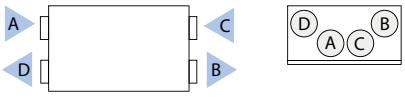
RECU 900 V



Design

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Connection of main cable

Shown as right



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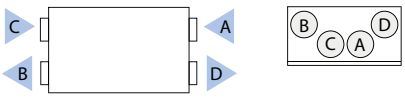


A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84


p. 86


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	400x235x46 mm

EC Fans

Capacity	170/235 W
Rotation speed	2900/2780 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater (E)

Capacity	4,5 kW
Air temperature, Δt	15°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	7	9,7	11,2	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 630 m³/h (175 l/s), 100 Pa.

Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 900 H(V)E-EC									
Supply Inlet	24	36	46	52	52	48	42	35	56,5
Supply Outlet	31	44	55	61	61	59	54	46	66,0
Exhaust Inlet	24	36	46	52	52	48	42	35	56,5
Exhaust Outlet	31	44	55	61	61	59	55	47	66,0
Casing	28	39	47	45	45	42	34	26	51,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	20	31	34	33	36	31	24	16	40,3

A-weighted sound power levels L_wA, dB(A).
Operation point: 833 m³/h (231 l/s), 290 Pa.

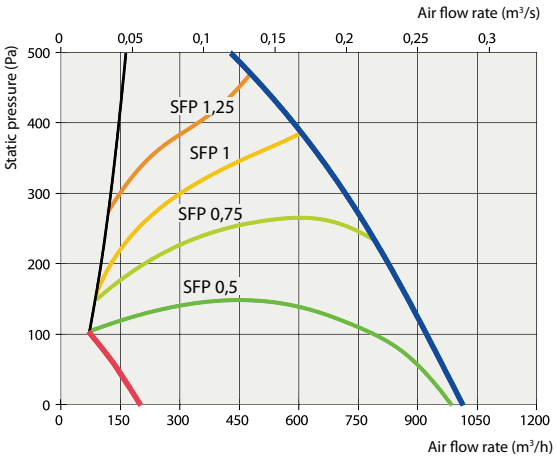
RECU 900 H(V)E-AC									
Supply Inlet	37	45	52	55	60	54	51	45	62,8
Supply Outlet	44	53	61	65	69	66	64	57	72,9
Exhaust Inlet	37	45	52	55	60	54	51	45	62,8
Exhaust Outlet	44	53	61	65	69	67	65	59	73,3
Casing	40	47	52	48	50	47	39	32	56,4

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

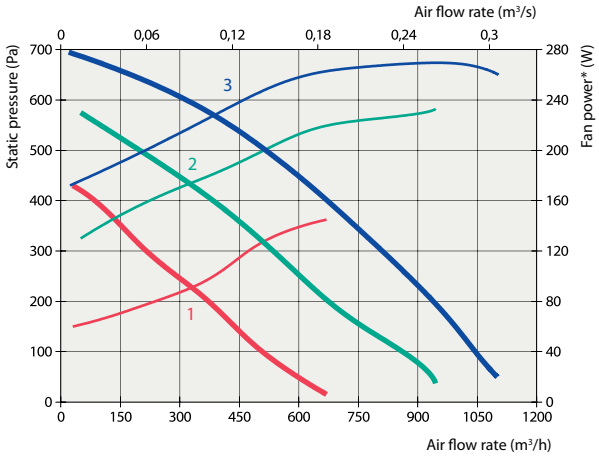
Surroundings	32	39	39	36	41	36	29	22	45,6

Performance RECU 900-EC



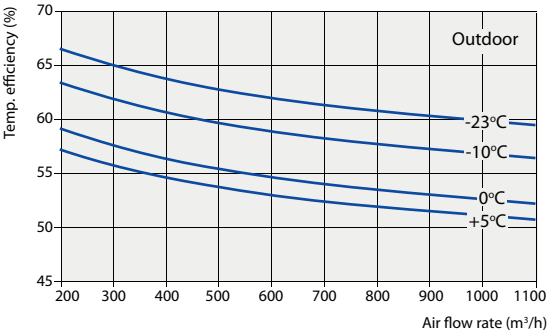
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance RECU 900-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



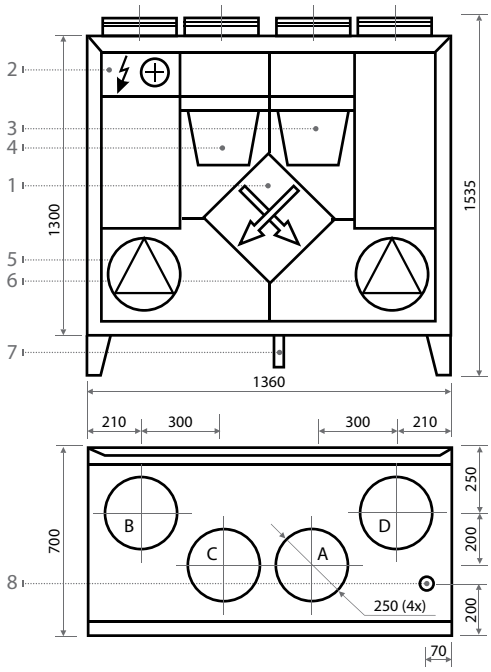
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1200

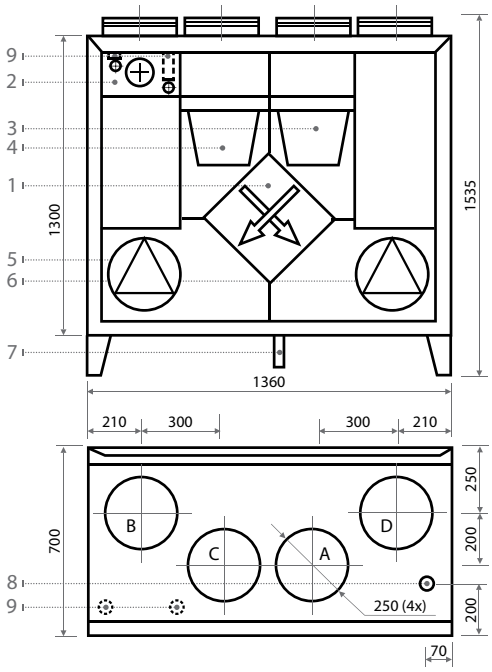
Panel thickness	45 mm
Unit weight	225 kg
Nominal air flow	1200 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	14,3 A
Maximal operating current (W)	5,6 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 1200 VE



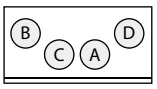
RECU 1200 VW



Design

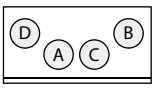
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Connection of main cable
9. Fluid connection tube only for W

Shown as left



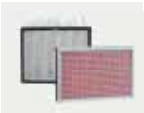
A Outdoor intake
B Supply air

Shown as right



C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 86


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x287x360 mm

EC Fans

Capacity	405 W
Rotation speed	2700 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	6 kW
Air temperature, Δt	14,8°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	5,7	8	9,9	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	11,94	9,33	8,43
Flow rate, dm³/h	530	409	370
Pressure drop, kPa	6,7	4	3,6
Connection, ”		1/2	
Temperature in–out, °C	5,9/35	5,9/29	5,9/27

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 840 m³/h (233 l/s), 100 Pa.

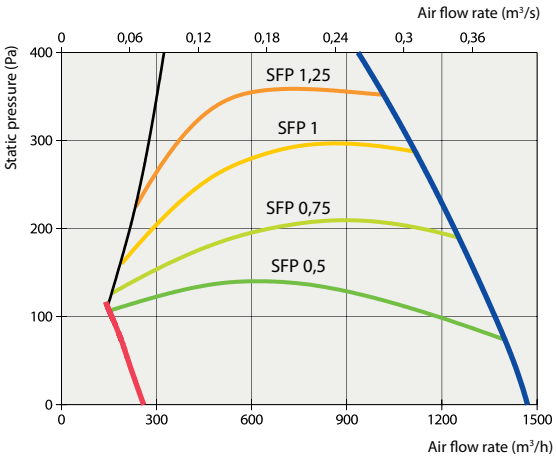
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 1200 VE									
Supply Inlet	30	36	41	44	44	40	36	30	49,2
Supply Outlet	37	45	51	54	55	52	50	42	60,0
Exhaust Inlet	30	36	41	44	44	40	36	30	49,2
Exhaust Outlet	37	45	51	54	55	53	51	43	60,3
Casing	34	40	44	40	41	38	32	24	48,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

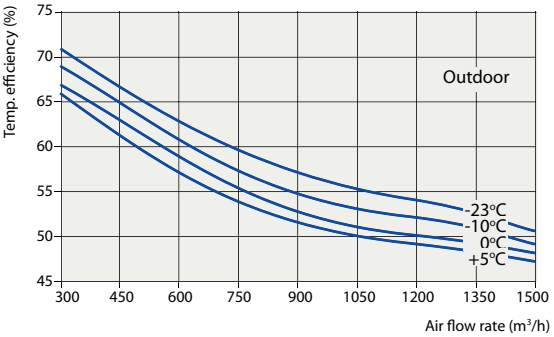
Surroundings	26	32	31	28	32	27	22	14	37,6

Performance RECU 1200



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for VW approximately 20 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



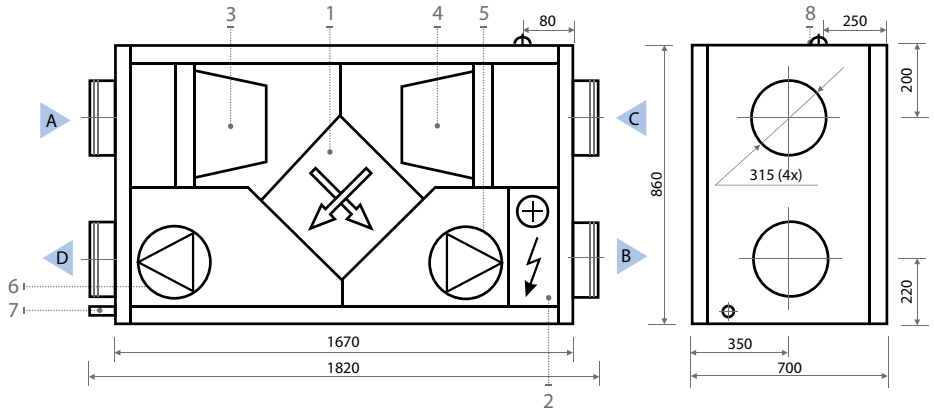
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1200

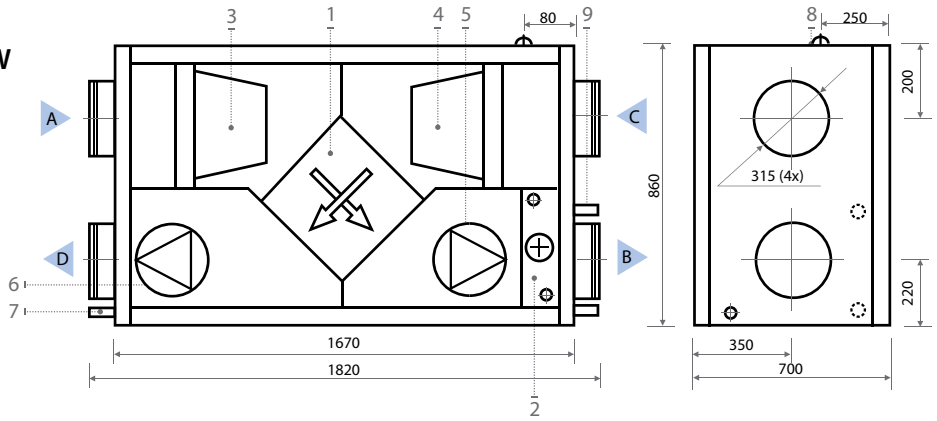
Panel thickness	45 mm
Unit weight	200 kg
Nominal air flow	1200 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	14,3 A
Maximal operating current (W)	5,6 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 1200 HE



RECU 1200 HW



Design

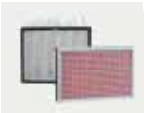
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Connection of main cable
9. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 86


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x287x360 mm

EC Fans

Capacity	405 W
Rotation speed	2700 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	6 kW
Air temperature, Δt	14,8°C

* Option

Temperature efficiency wet

		Supply		Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	5,7	8	9,9	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	11	9,3	7,7
Flow rate, dm³/h	482	409	336
Pressure drop, kPa	5	4	3
Connection, ”		1/2	
Temperature in–out, °C	4,2/31	4,2/27	4,2/23

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 840 m³/h (233 l/s), 100 Pa.

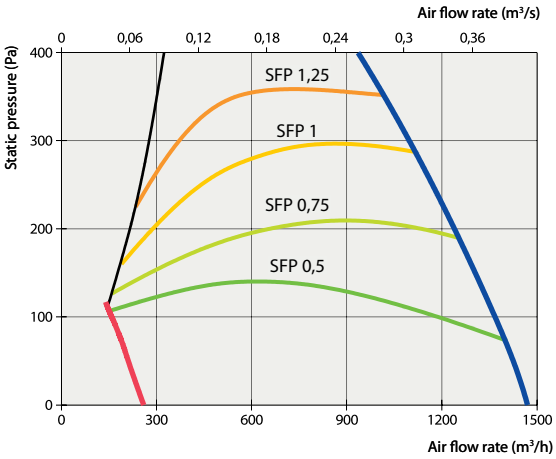
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 1200 HE									
Supply Inlet	30	36	41	44	44	40	36	30	49,2
Supply Outlet	37	45	51	54	55	52	50	42	60,0
Exhaust Inlet	30	36	41	44	44	40	36	30	49,2
Exhaust Outlet	37	45	51	54	55	53	51	43	60,3
Casing	34	40	44	40	41	38	32	24	48,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

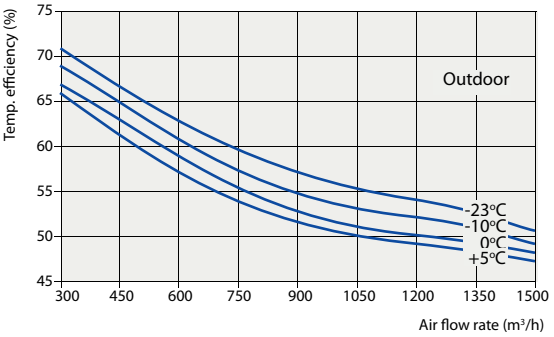
Surroundings	26	32	31	28	32	27	22	14	37,6

Performance RECU 1200



P[kW]= SFP[kW/(m3/s)] · V[m3/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 20 Pa at 1200 m3/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



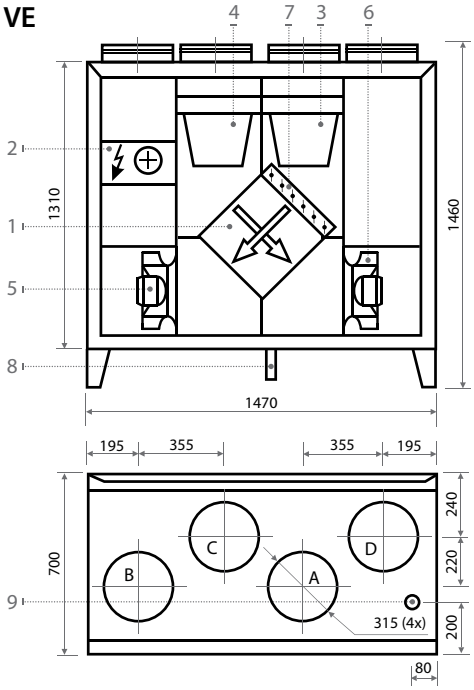
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1600

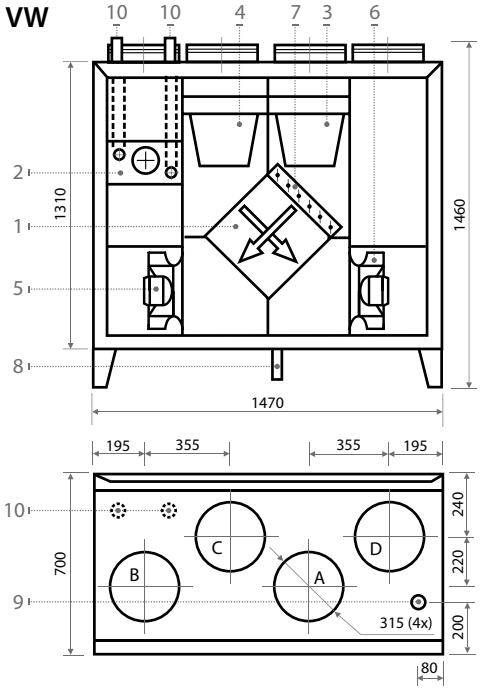
Panel thickness	45 mm
Unit weight E/W	300/290 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	23,2 A
Maximal operating current (W)	6,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 1600 VE



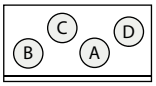
RECU 1600 VW



Design

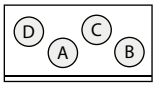
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain
   (the water trap must be installed D=15 mm)
9. Connection of main cable
10. Fluid connection tube only for W

Shown as left



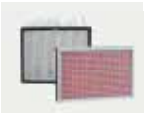
A Outdoor intake
B Supply air

Shown as right



C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x287x360 mm

EC Fans

Capacity	420 W
Rotation speed	2760 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	12 kW
Air temperature, Δt	17,2°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	6,6	9,4	11	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	25,4	21,6	19,5
Flow rate, dm³/h	1121	946	851
Pressure drop, kPa	5	4	2
Connection, ”		1	
Temperature in–out, °C	-20/27,1	-20/20	-20/16,2

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1120 m³/h (311 l/s), 100 Pa.

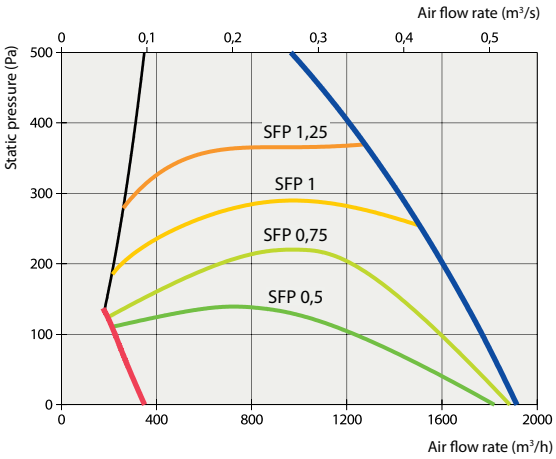
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
RECU 1600 VE									
Supply Inlet	36	43	48	51	50	46	42	35	55,7
Supply Outlet	45	53	59	62	62	59	57	49	67,5
Exhaust Inlet	36	43	48	51	50	46	42	35	55,7
Exhaust Outlet	45	53	59	62	62	60	58	50	67,7
Casing	40	47	51	46	46	42	35	27	54,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

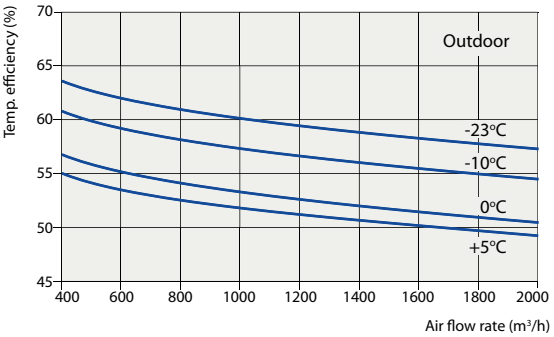
Surroundings	32	39	38	34	37	31	25	17	43,8

Performance RECU 1600



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for VW approximately 20 Pa at 1600 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



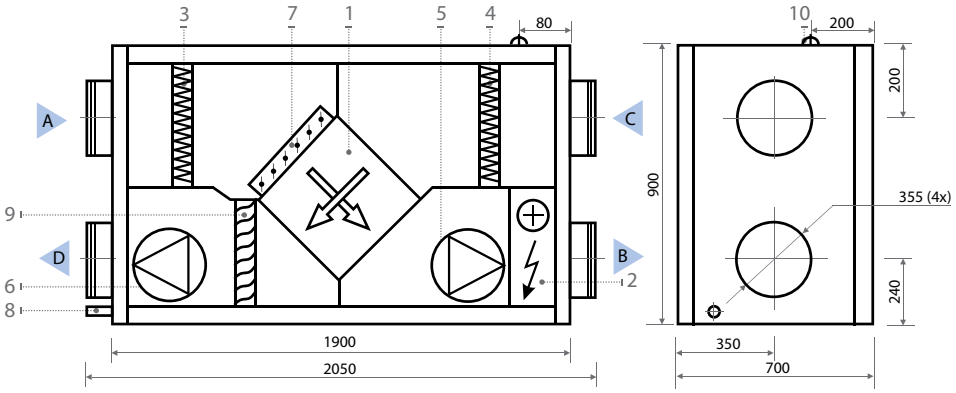
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1600

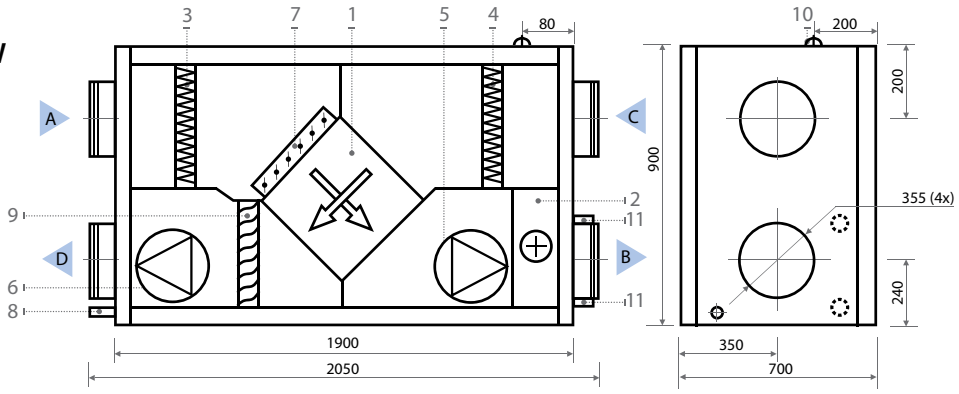
Panel thickness	45 mm
Unit weight E/W	320/330 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	23,2 A
Maximal operating current (W)	6,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 1600 HE



RECU 1600 HW



Design

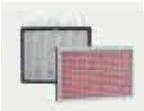
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p.83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	610x350x96 mm

EC Fans

Capacity	420 W
Rotation speed	2600 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	12 kW
Air temperature, Δt	22,1°C

* Option

Temperature efficiency wet

		Supply		Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	6,6	9,4	11	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	25	23,2	18,3
Flow rate, dm³/h	1140	1015	798
Pressure drop, kPa	5	4	2
Connection, ”		1	
Temperature in–out, °C	-23/25	-23/20	-14/20

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1120 m³/h (311 l/s), 100 Pa

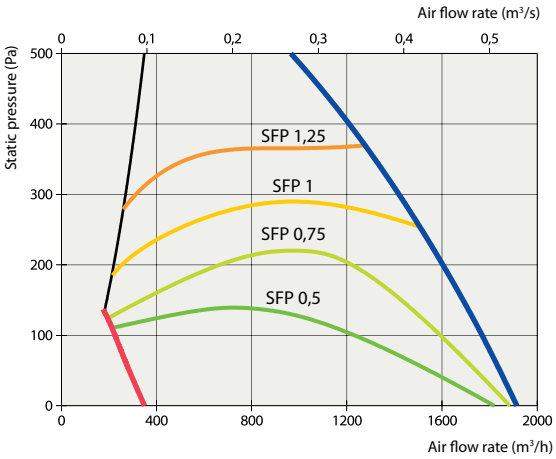
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 1600 HE									
Supply Inlet	37	45	50	53	53	48	45	38	58,0
Supply Outlet	45	53	59	62	62	59	57	49	67,5
Exhaust Inlet	37	45	50	53	53	48	44	37	58,0
Exhaust Outlet	45	53	59	62	62	60	58	50	67,7
Casing	40	47	51	46	46	42	35	27	54,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

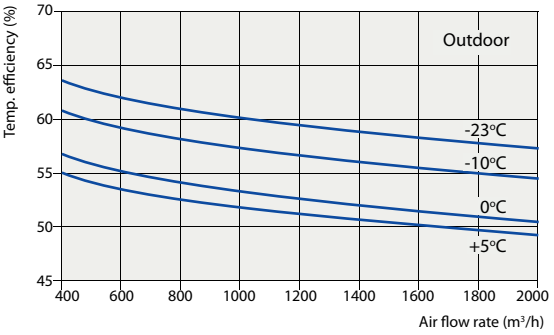
Surroundings	32	39	38	34	37	31	25	17	43,8

Performance RECU 1600



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 20 Pa at 1600 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



Application: 21°C, RH 45% indoor

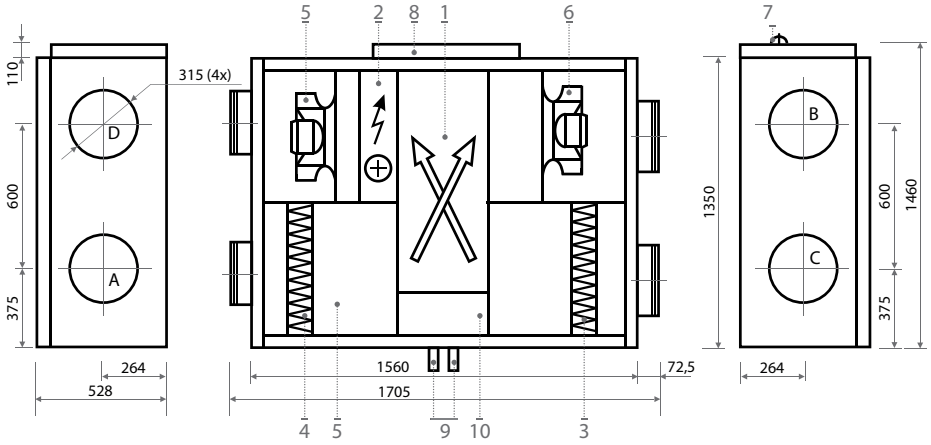
NEW

KOMPAKT RECU 1600 P

Panel thickness	50 mm
Unit weight	190 kg
Nominal air flow	1600 m³/h
Supply voltage	3~ 400 V
Maximal operating current	14,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

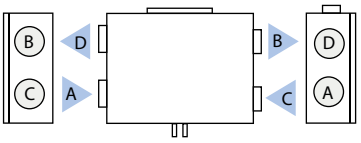
RECU 1600 PE



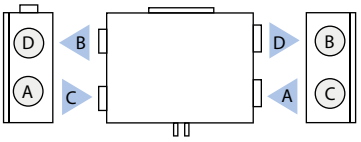
Design

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Control system
9. Condensate drain (the water trap must be installed D=28 mm)
10. By-pass damper

Shown as right

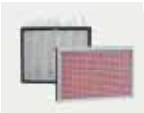


Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	600x420x96 mm

EC Fans

Capacity	435 W
Rotation speed	2540 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	7,5 kW
Air temperature, Δt	13,8°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	11,4	14	14,6	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1120 m³/h (311 l/s), 100 Pa.

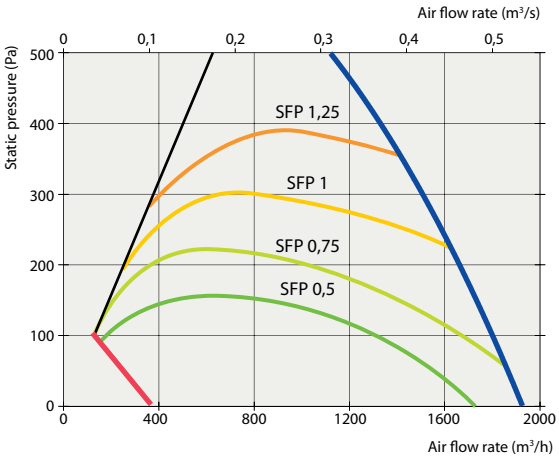
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 1600 PE									
Supply Inlet	35	42	47	50	51	47	43	36	55,7
Supply Outlet	43	50	55	59	60	57	55	47	64,9
Exhaust Inlet	35	42	47	50	51	47	43	36	55,7
Exhaust Outlet	43	50	55	59	60	58	56	48	65,2
Casing	39	45	48	44	44	41	34	27	52,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

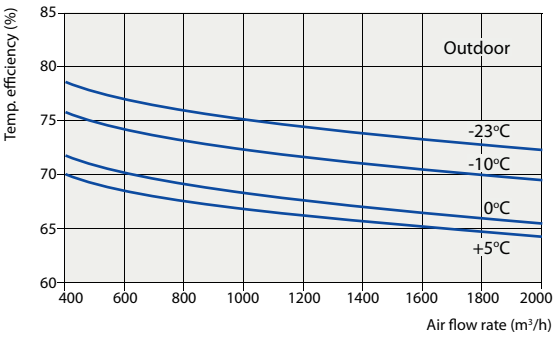
Surroundings	31	37	35	32	35	30	24	17	41,7

Performance RECU 1600 P



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



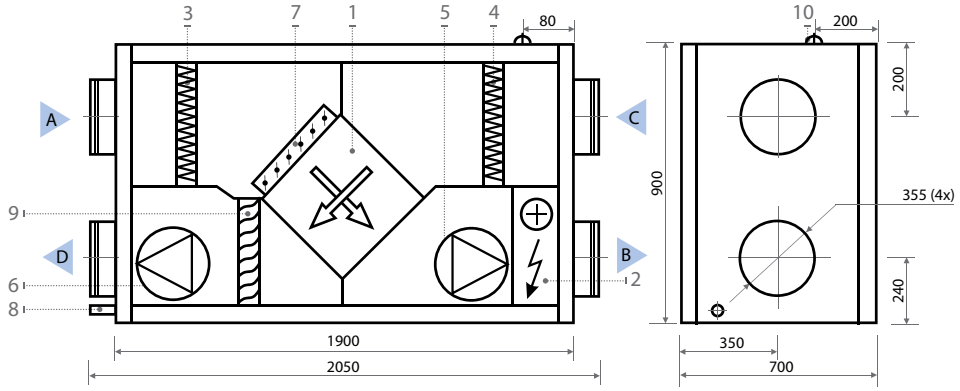
Application: 21°C, RH 45% indoor

KOMPAKT RECU 2000

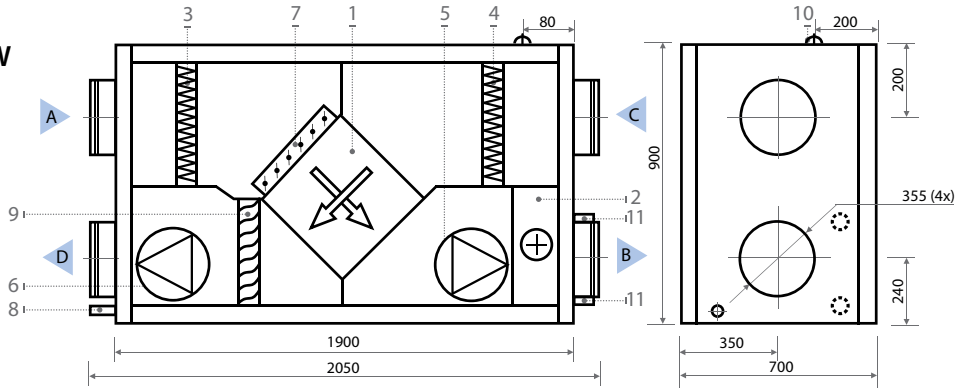
Panel thickness	45 mm
Unit weight E/W	325/330 kg
Nominal air flow	2000 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	32,1 A
Maximal operating current (W)	6,4 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 2000 HE



RECU 2000 HW



Design

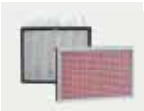
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	610x350x96 mm

EC Fans

Capacity	480 W
Rotation speed	2170 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	18 kW
Air temperature, Δt	26,6°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	4,1	7,3	9,5	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	29,7	25,2	18,9
Flow rate, dm³/h	1308	1094	825
Pressure drop, kPa	6	4	3
Connection, ”		1	
Temperature in–out, °C	-23/21	-17/20	-8/20

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1400 m³/h (389 l/s), 100 Pa.

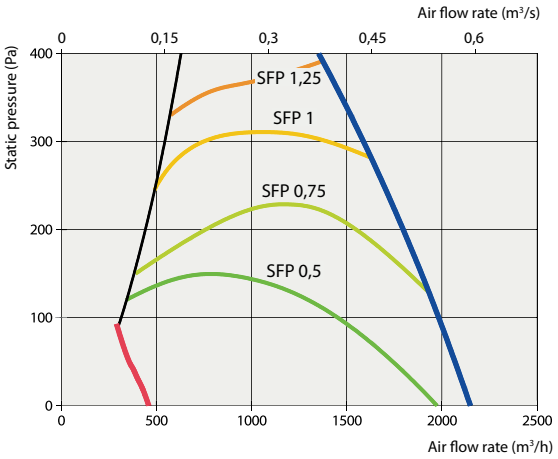
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 2000 HE									
Supply Inlet	34	47	53	55	55	54	48	42	60,8
Supply Outlet	41	56	61	64	64	65	62	53	70,7
Exhaust Inlet	34	47	53	55	55	54	48	41	60,8
Exhaust Outlet	41	56	61	64	64	66	62	54	71,0
Casing	37	50	53	47	47	46	38	30	56,6

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

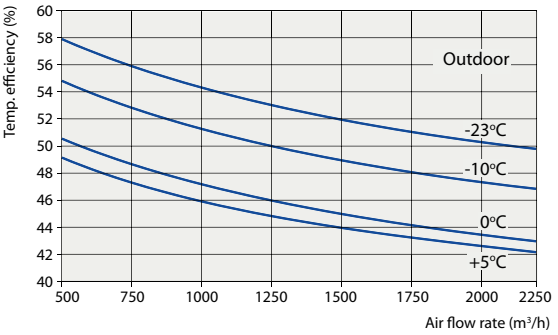
Surroundings	29	42	40	35	38	35	28	20	45,8

Performance RECU 2000



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 30 Pa at 2000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



Application: 21°C, RH 45% indoor

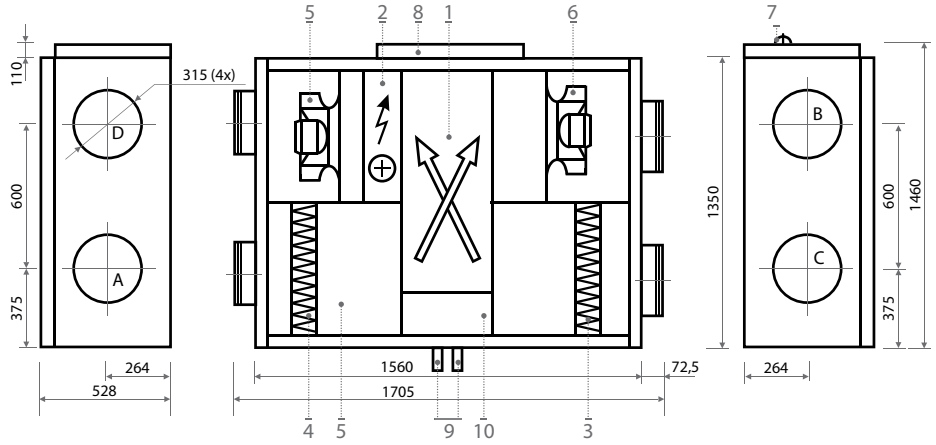
NEW

KOMPAKT RECU 2000 P

Panel thickness	50 mm
Unit weight	190 kg
Nominal air flow	2000 m³/h
Supply voltage	3~ 400 V
Maximal operating current	16,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

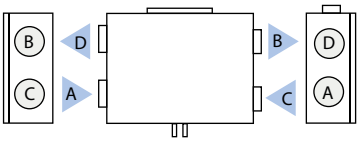
RECU 2000 PE



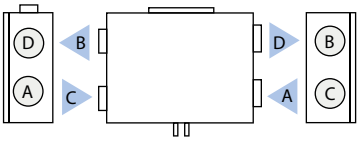
Design

1. Plate heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Connection of main cable
8. Control system
9. Condensate drain (the water trap must be installed D=28 mm)
10. By-pass damper

Shown as right

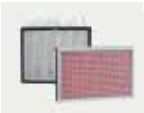


Shown as left



A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 82


p. 83


p. 86


p. 88


p. 84

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Compact
Dimensions bxhxl	600x420x96 mm

EC Fans

Capacity	660 W
Rotation speed	2900 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	9,0 kW
Air temperature, Δt	13,3°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	11,4	14	14,6	

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1400 m³/h (389 l/s), 100 Pa.

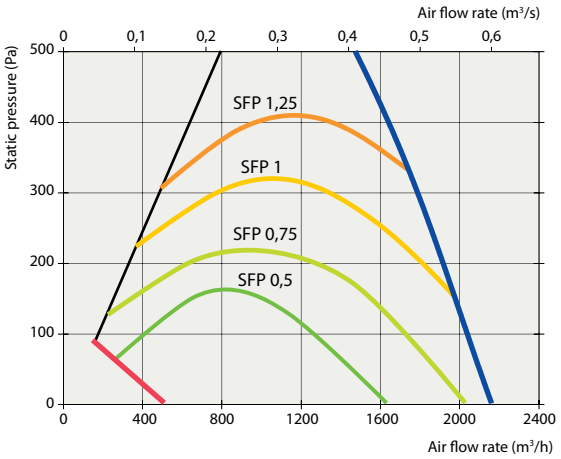
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 2000 PE									
Supply Inlet	36	47	53	57	56	51	47	43	61,3
Supply Outlet	44	55	62	66	65	63	60	55	70,9
Exhaust Inlet	36	47	53	57	56	51	47	43	61,3
Exhaust Outlet	44	55	62	66	65	63	61	56	71,0
Casing	40	49	53	49	48	44	37	30	56,7

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

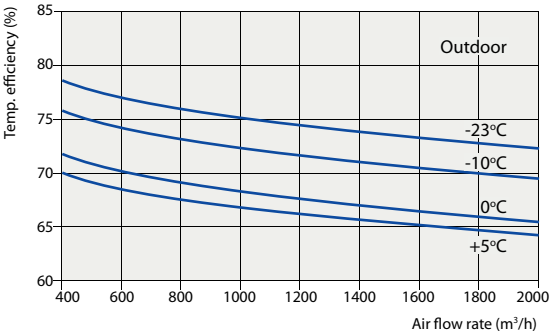
Surroundings	32	41	40	37	39	33	27	20	45,8

Performance RECU 2000 P



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – L. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



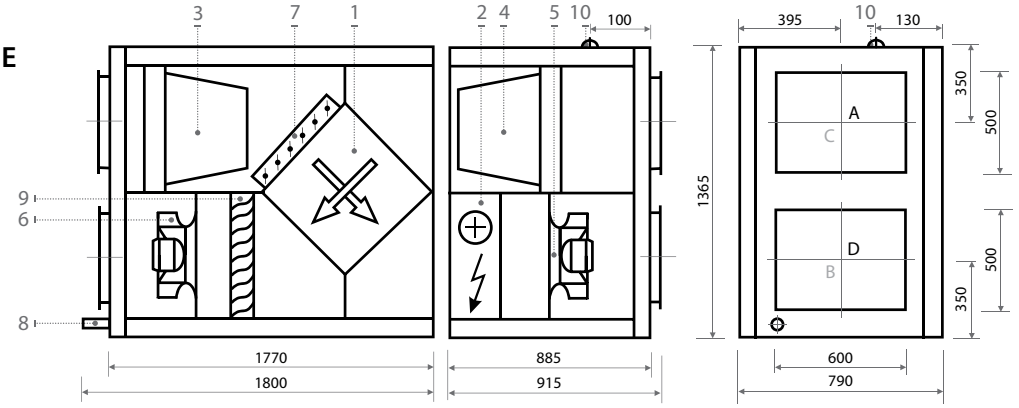
Application: 21°C, RH 45% indoor

KOMPAKT RECU 3000

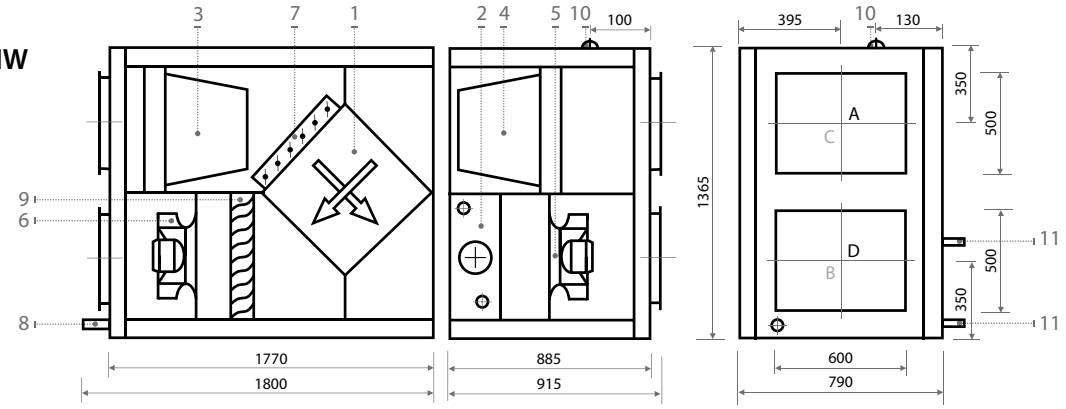
Panel thickness	45 mm
Unit weight	540 (390/150) kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	29,7 A
Maximal operating current (W)	4,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 3000 HE



RECU 3000 HW



Design

1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592x300 mm

EC Fans

Capacity	990 W
Rotation speed	2580 rpm
Protection level, IEC 34-5	IP 55

Electric Air Heater (E)

Capacity	18 kW
Air temperature, Δt	17,8°C

* Option

Temperature efficiency wet

		Supply		Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	6,6	8,9	10,9	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	25,4	21,76	18,2
Flow rate, dm³/h	1117	953	792
Pressure drop, kPa	4	3	2
Connection, ”		1	
Temperature in–out, °C	0/25,1	0/21,5	0/18

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2100 m³/h (583 l/s), 100 Pa.

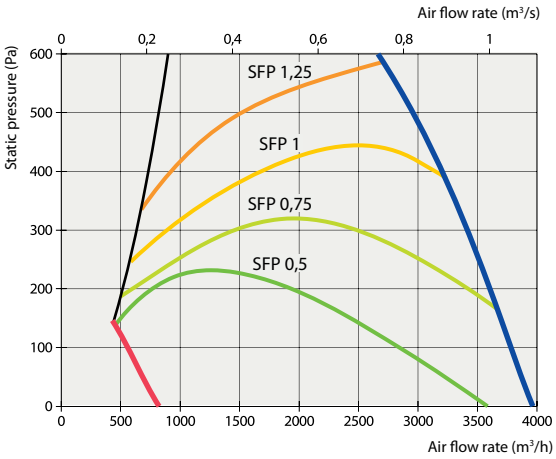
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 3000 HE									
Supply Inlet	22	31	44	51	52	50	48	44	57,0
Supply Outlet	28	36	52	59	66	67	63	59	71,1
Exhaust Inlet	22	31	44	51	52	51	48	44	57,2
Exhaust Outlet	28	36	52	59	66	67	63	59	71,1
Casing	26	34	45	44	47	46	38	31	52,0

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

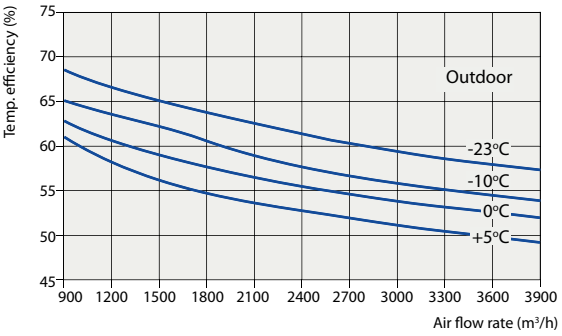
Surroundings	18	26	32	32	38	35	28	21	41,1

Performance RECU 3000



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 20 Pa at 3000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



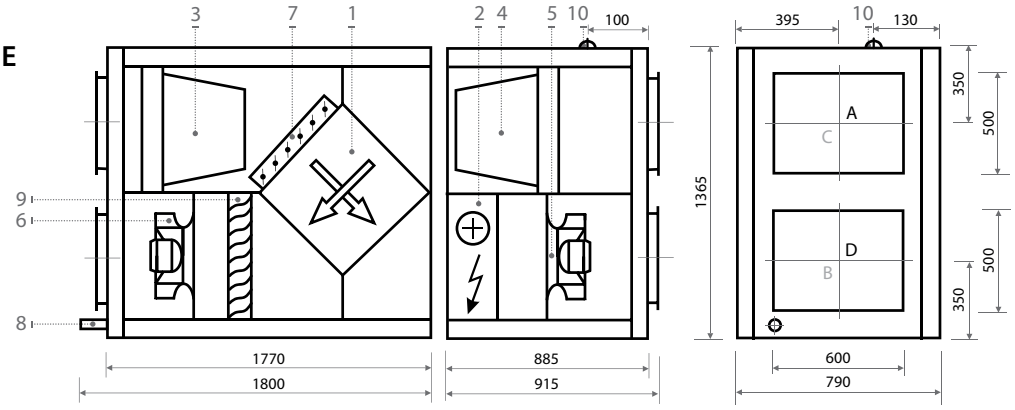
Application: 21°C, RH 45% indoor

KOMPAKT RECU 4000

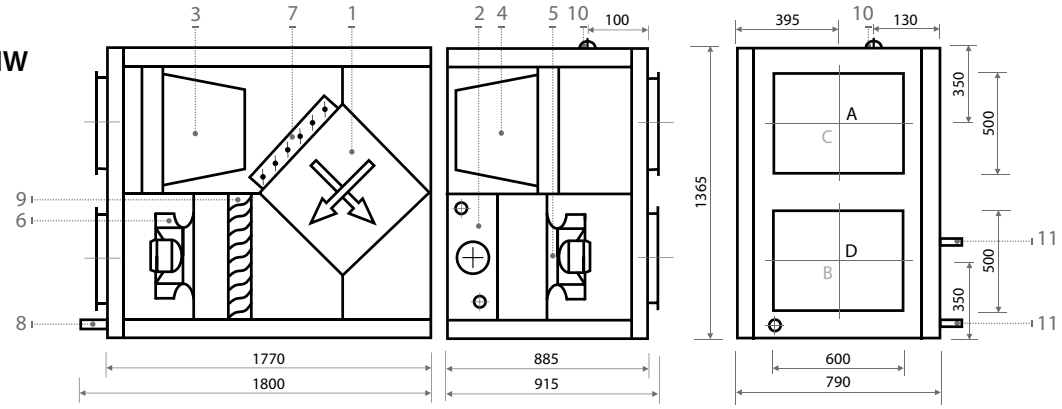
Panel thickness	45 mm
Unit weight	620 (440/180) kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	38,4 A
Maximal operating current (W)	4,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 4000 HE



RECU 4000 HW



Design

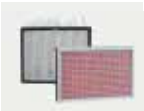
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592x300 mm

EC Fans

Capacity	1000 W
Rotation speed	2140 rpm
Protection level, IEC 34-5	IP 55

Electric Air Heater (E)

Capacity	24 kW
Air temperature, Δt	17,8°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	5,9	7,5	10	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	48	41,8	35,7
Flow rate, dm³/h	2114	1833	1555
Pressure drop, kPa	23	18	13
Connection, ”		1	
Temperature in–out, °C	-5/30,6	-5/26,1	-5/21,5

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2800 m³/h (778 l/s), 100 Pa.

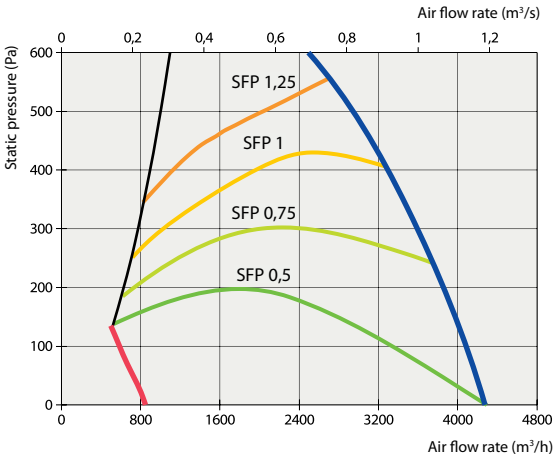
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 4000 HE									
Supply Inlet	33	42	52	58	58	55	51	46	62,8
Supply Outlet	40	49	60	67	73	71	65	60	76,3
Exhaust Inlet	33	42	52	58	58	56	51	46	63,0
Exhaust Outlet	40	49	60	67	73	71	65	60	76,3
Casing	37	44	52	49	52	48	39	32	57,0

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

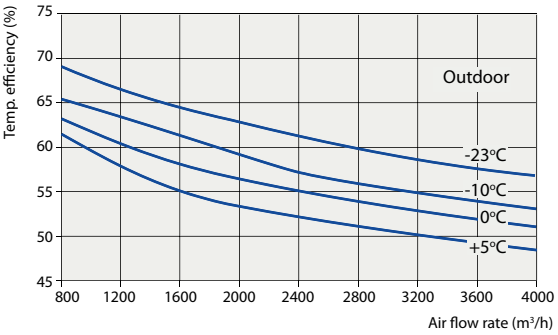
Surroundings	29	36	39	37	43	37	29	22	46,1

Performance RECU 4000



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 30 Pa at 4000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



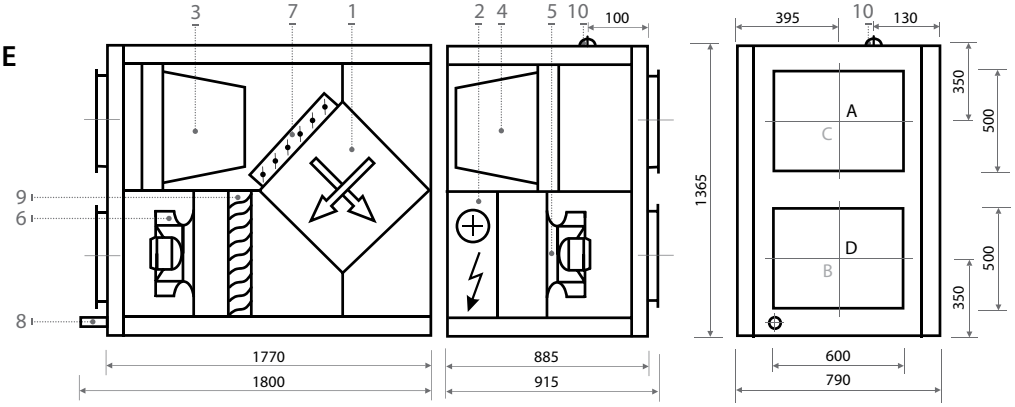
Application: 21°C, RH 45% indoor

KOMPAKT RECU 4500

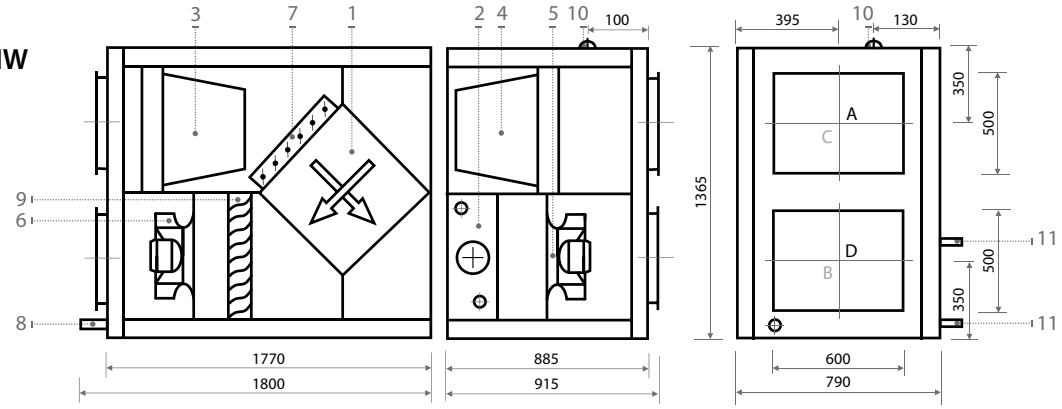
Panel thickness	45 mm
Unit weight	625 (440/185) kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	40,2 A
Maximal operating current (W)	5,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 4500 HE



RECU 4500 HW



Design

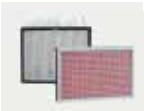
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. By-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Drop eliminator
10. Connection of main cable
11. Fluid connection tube only for W

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592x300 mm

EC Fans

Capacity	1700 W
Rotation speed	2600 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater (E)

Capacity	24 kW
Air temperature, Δt	15,8°C

* Option

Temperature efficiency wet

	Supply			Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	5,7	7,5	10	

Hot water air heater (HW)

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	46	40	34
Flow rate, dm³/h	2021	1751	1484
Pressure drop, kPa	26	21	15
Connection, ”		1	
Temperature in–out, °C	-5/25	-5/21	-5/17

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 3150 m³/h (875 l/s), 100 Pa.

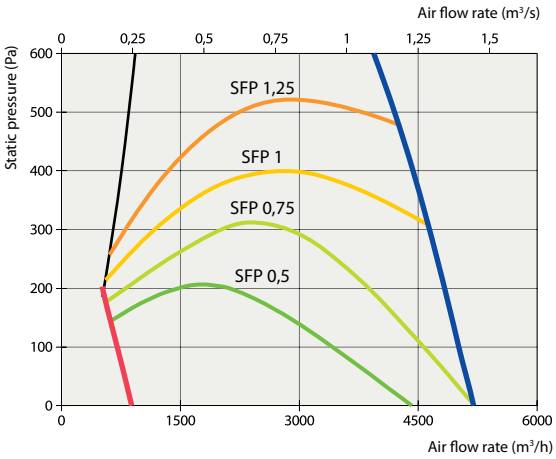
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 4500 HE									
Supply Inlet	38	37	57	58	58	57	51	48	63,9
Supply Outlet	43	43	61	68	74	74	68	63	78,2
Exhaust Inlet	38	37	57	58	58	57	51	48	63,9
Exhaust Outlet	43	43	61	68	74	74	68	63	78,2
Casing	40	39	55	50	52	50	40	34	58,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

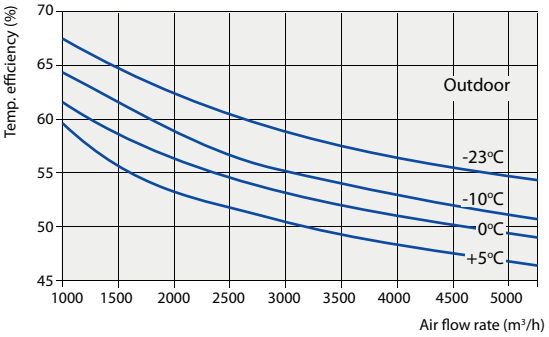
Surroundings	32	31	42	38	43	39	30	24	47,0

Performance RECU 4500



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 40 Pa at 4500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



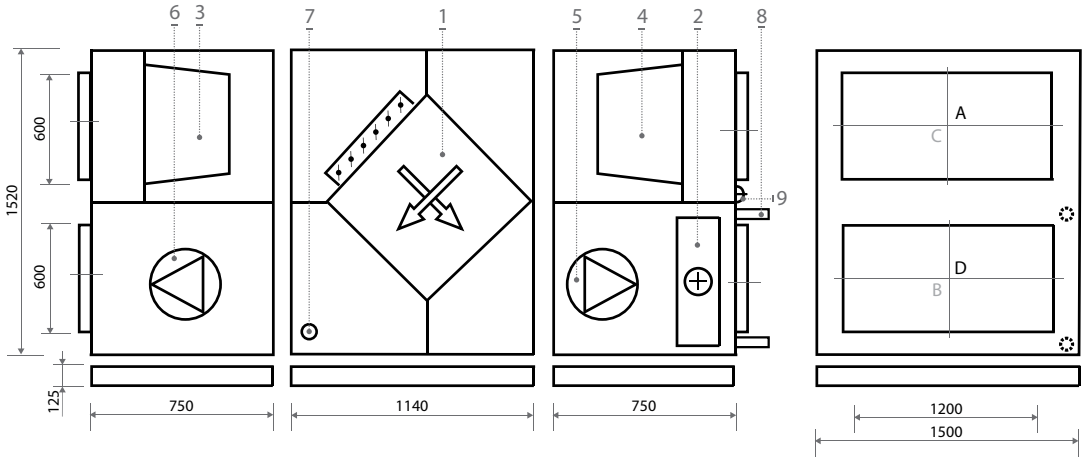
Application: 21°C, RH 45% indoor

KOMPAKT RECU 7000

Panel thickness	45 mm
Unit weight	800 (260/260/280) kg
Nominal air flow	7000 m³/h
Supply voltage	3~ 400 V
Maximal operating current	9,6 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

The photo is intended for informational purposes only, exact details may vary.

RECU 7000 HW



Design

1. Plate heat exchanger
2. Water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain
8. Fluid connection tube
9. Connection of main cable

Shown as right

Shown as left

A Outdoor intake
B Supply air
C Extract indoor
D Exhaust air

Accessories


p. 81


p. 83


p. 86


p. 88


p. 84


p. 87


p. 90

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592-12x500 mm
Quantity	2 pcs.

EC Fans

Capacity	2730 W
Rotation speed	2040 rpm
Protection level, IEC 34-5	IP 54

* Option

Temperature efficiency wet

	Supply				Exhaust
Intake temperature, °C	-15	-10	-5	0	20
Supply temperature, °C	7,7	9,2	10,4	11,9	

Hot water air heater (HW)

Water temperature in/out, °C	80/60
Capacity, kW	35,4
Flow rate, dm³/h	1560
Pressure drop, kPa	7,6
Connection, ”	3/4
Temperature in–out, °C	6/21

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 4900 m³/h (1361 l/s), 100 Pa.

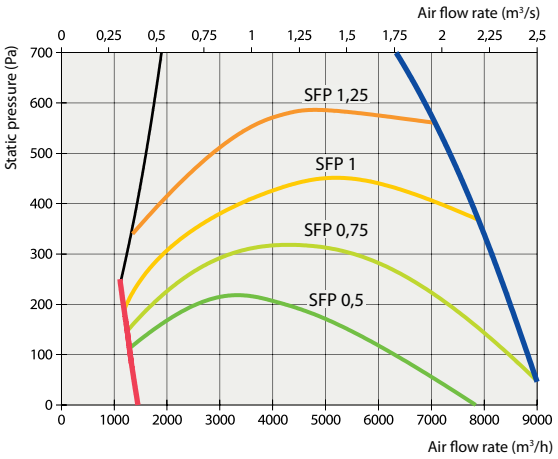
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
RECU 7000 HW									
Supply Inlet	27	38	53	56	54	49	46	46	60,1
Supply Outlet	35	45	61	70	73	69	65	59	76,3
Exhaust Inlet	27	38	53	56	54	49	46	45	60,0
Exhaust Outlet	36	46	63	72	75	71	68	64	78,5
Casing	32	41	54	52	53	48	41	35	58,5

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

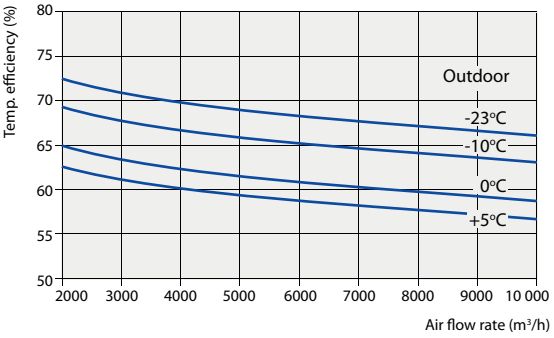
Surroundings	24	33	41	40	44	37	31	25	47,2

Performance RECU 7000



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for HW approximately 30 Pa at 7000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



Application: 21°C, RH 45% indoor

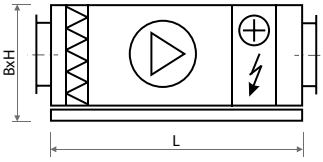
KOMFOVENT KOMPAKT OTK units

False ceiling supply air handling units. Capacity range from 170 to 4 200 m³/h.

- Height is only 350 mm (for OTK 3000 and OTK 4000 – 545 mm) – easy to choose the place for installation.
- Units are complemented with fastening profiles and vibration absorbing holders.
- Safe and handy design of removable cover ensures easy fixing of cover at different opening levels for performing maintenance and service inspection.
- KOMPAKT OTK air handling units have integrated control system C3.
- Control panel may be installed in any user-convenient place.
- Control panel display enables to set the operation parameters of the unit and monitor them.
- There is a possibility to complement and control the duct mounted cooling section.

KOMPAKT OTK 700

Panel thickness	45 mm
Unit weight	32,5 kg
Nominal air flow	700 m³/h
Paint color	RAL 7035
Control system	KOMFOVENT C3



The photo is intended for informational purposes only, exact details may vary.

Type of supply air handling units	Dimensions BxHxL, mm	Thermal and sound insulation, mm	Ducts connection, mm	Supply voltage, V	Fan input power AC, W	Air heater capacity, kW	Maximal operating current, A	ΔT, °C	Filter M5
With electric heater									
OTK 700P-E3	440x350x850	45	ø 200	1~230	165	3,0	13,8	13	345x287x46
OTK 700P-E6	440x350x850	45	ø 200	3~400	165	6,0	9,4	25	345x287x46
OTK 700P-E9	440x350x850	45	ø 200	3~400	165	9,0	13,8	38	345x287x46

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 633 m³/h (176 l/s), 168 Pa.

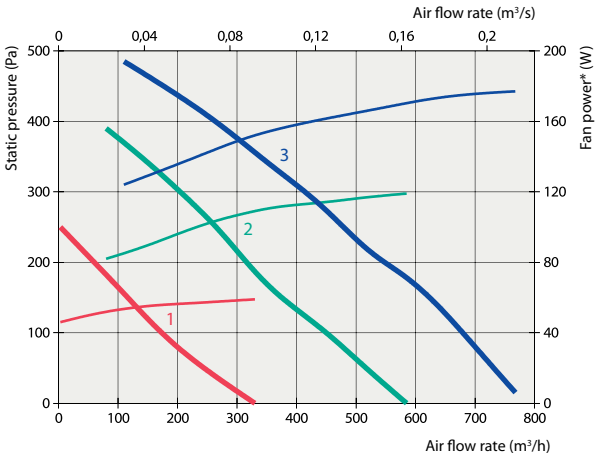
Octave band mid-frequency, Hz	63	125	250	500	1 000	2 000	4 000	8 000	Total
OTK 700 PE									
Supply Inlet	32	45	54	58	61	59	54	46	65,1
Supply Outlet	35	48	57	62	64	63	59	51	68,8
Casing	29	40	46	43	44	41	33	25	50,4

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	21	32	33	31	35	30	23	15	39,4

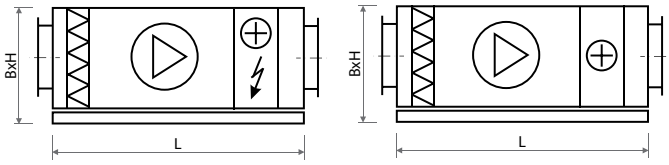
Performance OTK 700PE-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5. Correction factor for F7 class filter approximately – 70 Pa at 700 m³/h.

KOMPAKT OTK 1200

Panel thickness	45 mm
Unit weight	46 kg
Nominal air flow	1200 m³/h
Paint color	RAL 7035
Control system	KOMFOVENT C3



The photo is intended for informational purposes only, exact details may vary.

Type of supply air handling units	Dimensions BxHxL, mm	Thermal and sound insulation, mm	Ducts connection, mm	Supply voltage, V	Fan input power AC, W	Air heater capacity, kW	Maximal operating current, A	ΔT, °C	Filter M5
With electric heater									
OTK 1200P-E9	690x350x850	45	ø 250	3~400	290	9,0	14,3	22	558x287x46
OTK 1200P-E15	690x350x850	45	ø 250	3~400	290	15,0	23,0	37	558x287x46
With hot water heater									
OTK 1200PW	690x350x850	45	ø 250	1~230	290	–	1,8		558x287x46

Hot water air heater (HW)

Water temperature in/out, °C	70/50	80/60	90/70
Capacity, kW	16,2	18,5	20,55
Flow rate, dm³/h	707	812	907
Pressure drop, kPa	2,9	3,6	4,28
Connection, ”		1/2	
Temperature in–out, °C	-30/9,32	-30/15	-30/20

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 1103 m³/h (306 l/s), 173 Pa.

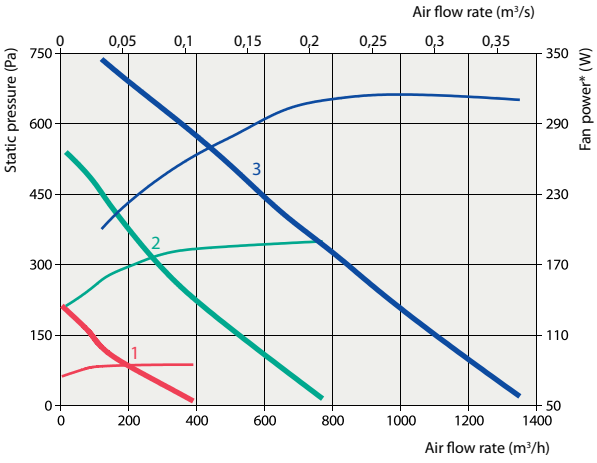
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
OTK 1200 PE									
Supply Inlet	39	50	58	60	65	63	60	56	69,2
Supply Outlet	42	53	61	64	69	67	66	62	73,5
Casing	35	44	49	44	47	44	37	30	53,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	27	36	36	32	38	33	27	20	42,5

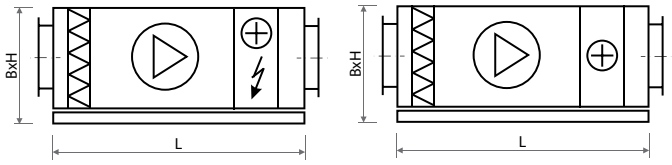
Performance OTK 1200PE-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5. Correction factor for PW approximately 30 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 30 Pa at 1200 m³/h.

KOMPAKT OTK 2000

Panel thickness	45 mm
Unit weight	73 kg
Nominal air flow	2000 m³/h
Paint color	RAL 7035
Control system	KOMFOVENT C3



The photo is intended for informational purposes only, exact details may vary.

Type of supply air handling units	Dimensions BxHxL, mm	Thermal and sound insulation, mm	Ducts connection, mm	Supply voltage, V	Fan input power, W	Air heater capacity, kW	Maximal operating current, A	ΔT, °C	Filter M5
With electric heater									
OTK 2000P-E15	1000x350x865	45	700x250	3~400	2x290	15,0	24,2	22	858x287x46
OTK 2000P-E22.5	1000x350x865	45	700x250	3~400	2x290	22,5	35,1	33	858x287x46
With hot water heater									
OTK 2000PW	1000x350x865	45	700x250	1~230	2x290	–	12,5		858x287x46

Hot water air heater (HW)

Water temperature in/out, °C	70/50	80/60	90/70
Capacity, kW	28,6	32,4	34,2
Flow rate, dm³/h	1253	1423	1511
Pressure drop, kPa	9,82	12,03	13,07
Connection, ”		1/2	
Temperature in–out, °C	-30/12	-30/17	-30/20

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2000 m³/h (556 l/s), 232 Pa.

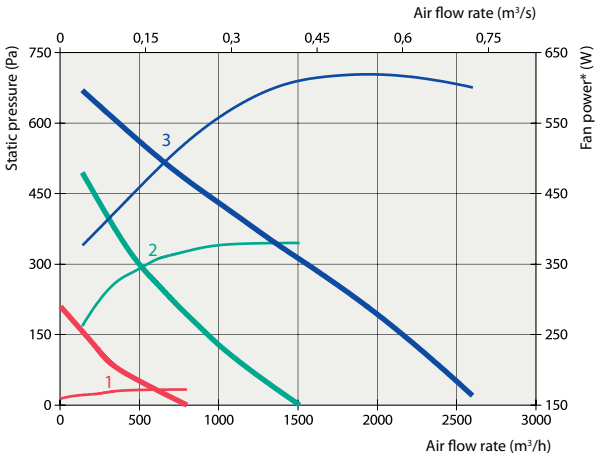
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
OTK 2000 PE-AC									
Supply Inlet	43	52	59	63	68	65	63	58	71,8
Supply Outlet	46	55	62	66	71	70	68	63	75,7
Casing	38	46	50	46	49	45	38	31	54,9

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	30	38	37	34	40	34	28	21	44,2

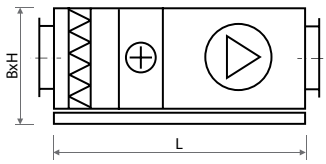
Performance OTK 2000PE-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5. Correction factor for PW approximately 30 Pa at 2000 m³/h. Correction factor for F7 class filter approximately – 70 Pa at 2000 m³/h.

KOMPAKT OTK 3000

Panel thickness	45 mm
Unit weight	120 kg
Nominal air flow	3000 m³/h
Paint color	RAL 7035
Control system	KOMFOVENT C3



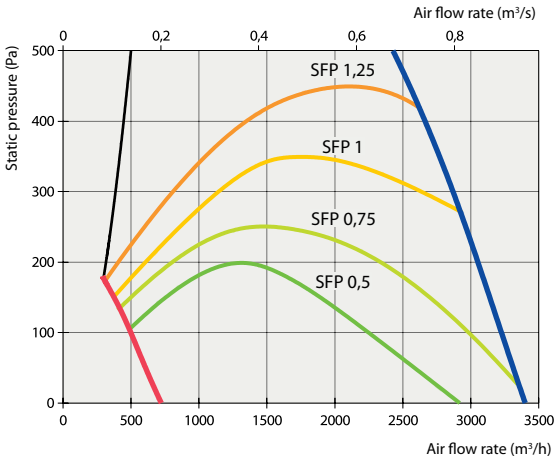
The photo is intended for informational purposes only, exact details may vary.

Type of supply air handling units	Dimensions BxHxL, mm	Thermal and sound insulation, mm	Ducts connection, mm	Supply voltage, V	Fan input power EC, W	Maximal operating current, A	Filter M5
With hot water heater							
OTK 3000PW	1005x545x1217	45	600 x 400	3~400	990	2,2	450 x 480 x 96(x2)

Hot water air heater (HW)

Water temperature in/out, °C	60/40	70/50	80/60	90/70
Capacity, kW	51,4	51,4	51,4	51,4
Flow rate, dm³/h	2239	2248	2257	2267
Pressure drop, kPa	4,8	5,4	4,5	4,5
Connection, ”		1		
Temperature in–out, °C	-30/20	-30/20	-30/20	-30/20
Safety on capacity, %	13	26	36	45

Performance OTK 3000PW-EC



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for F7 class filter approximately – 70 Pa at 3000 m³/h.

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2100 m³/h (583 l/s), 100 Pa.

Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
OTK 3000 PW									
Supply Inlet	29	40	54	58	58	61	58	51	65,5
Supply Outlet	33	42	58	63	70	71	68	62	75,2
Casing	27	35	47	43	47	45	37	30	52,1

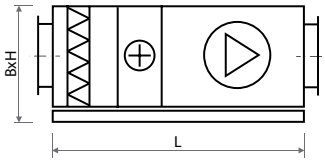
The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	19	27	34	31	38	34	27	20	41,0

KOMPAKT OTK 4000

Panel thickness	45 mm
Unit weight	125 kg
Nominal air flow	4000 m³/h
Paint color	RAL 7035
Control system	KOMFOVENT C3



The photo is intended for informational purposes only, exact details may vary.

Type of supply air handling units	Dimensions BxHxL, mm	Thermal and sound insulation, mm	Ducts connection, mm	Supply voltage, V	Fan input power EC, W	Maximal operating current, A	ΔP Water, kPa	Filter M5
With hot water heater								
OTK 4000PW	1005x545x1217	45	600 x 400	3~400	1000	2,3	5,1	450 x 480 x 96(x2)

Hot water air heater (HW)

Water temperature in/out, °C	60/40	70/50	80/60	90/70
Capacity, kW	68,5	68,5	68,5	68,5
Flow rate, dm³/h	2985	2997	3009	3023
Pressure drop, kPa	8,0	7,9	7,7	7,5
Connection, ”		1		
Temperature in–out, °C	-30/20	-30/20	-30/20	-30/20
Safety on capacity, %	5	18	30	40

Acoustic Data

A-weighted sound power levels L_wA, dB(A).
Operation point: 2800 m³/h (778 l/s), 100 Pa.

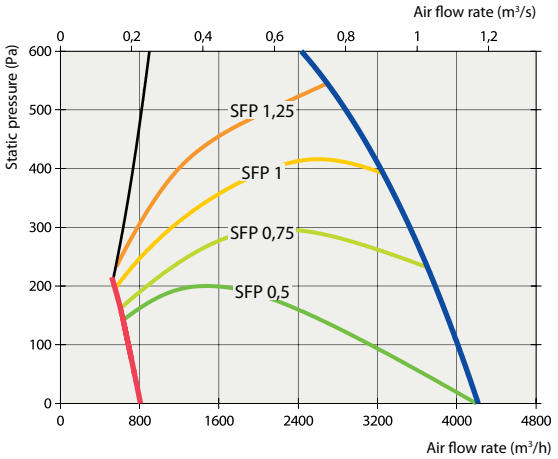
Octave band mid-frequency, Hz	63	125	250	500	1000	2000	4000	8000	Total
OTK 4000 PW									
Supply Inlet	37	46	57	62	62	62	57	50	67,7
Supply Outlet	41	49	60	68	74	71	66	60	77,0
Casing	34	41	49	47	49	46	36	29	54,3

The sound data table indicates the sound power level L_wA which should not be confused with the sound pressure level L_pA.

A-weighted sound pressure levels L_pA, dB(A), 10 m² normally isolated room, distance from casing – 3 m.

Surroundings	26	33	36	35	40	35	26	19	43,3

Performance OTK 4000PW-EC



P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for F7 class filter approximately – 70 Pa at 4000 m³/h.

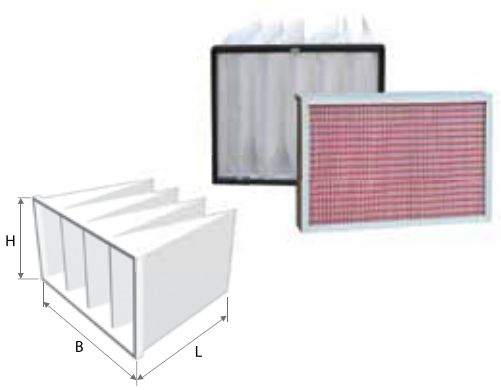
Accessories

Supply and Exhaust Filters

99,9% (in amount) of particulates in the outdoor air are smaller than 1 µm. By mass the mentioned particulates account for only 30% of all airborne dust. Thus, if the outdoor air is supplied to the public and dwelling houses, to ensure air purity required by hygienic standards, filters of EU5-EU7 class are enough. EU4 and EU5 class filters are used for filtering the exhaust air in air handling units. Air filtering protects air handling equipment against pollution, extends its service life. Therefore dirty filters should be replaced on a timely basis to assure comfortable conditions in the premises and protection of air handling units against breakage. A light on the control panel indicates the filter clogging. Usually air filters should be replaced not less than twice per year: after the end of the heating season and in autumn.

Filter classification and standards

Filters applied in the air handling units are classified according to EUROVENT 4/9 (CEN EN 779 and CEN EN 1882) system.



Types of filters

1. M5 (standard filter) or F7 (optional) class filters for supply air filter. Very compact, but are distinguished by extra large filtering surface. Large filtering surface provides long-life performance and low pressure losses (low pressure losses reduce power consumption). The filters from glass fiber material and a paper filter case. Ecologically clean materials allow just burning clogged air filters.
2. Bag filters are used in bigger size units: M5 (or F7) classes for supply and for exhaust air.

Unit size	Filter M5, F7 dimensions BxHxL, mm
REGO 400	410x200x46
REGO 500	540x260x46
REGO 700	540x260x46
REGO 900 U	800x400x46
REGO 1200 U	800x400x46
REGO 1200 P	410x420x46
REGO 1400 U	800x400x46
REGO 1600 U	800x450x46
REGO 2000 U	800x450x46
REGO 2000 P	560x420x96
REGO 2500 U	800x450x46
REGO 3000 U	525x510x46 (x2)
REGO 4000 U	525x510x46 (x2)
REGO 4500 U	525x510x46 (x2)
REGO 7000	592x592-12x500 (x2)
RECU 400	300x195x46
RECU 700	400x235x46
RECU 700 CF	390x300x46
RECU 900	400x235x46
RECU 1200	592x287-6x360
RECU 1600 V	592x287-6x360
RECU 1600 H	610x350x96
RECU 1600 P	600x420x96
RECU 2000	610x350x96
RECU 2000 P	600x420x96
RECU 3000	592x592-6x300
RECU 4000	592x592-6x300
RECU 4500	592x592-6x300
RECU 7000	592x592-12x500 (x2)

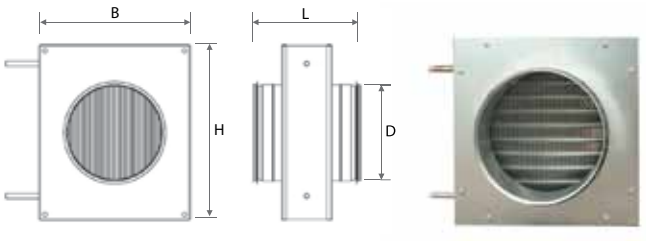
Unit size	Filter dimensions BxHxL, mm	M5	F7
OTK 700	345x287x46	+	–
OTK 1200	558x287x46	+	–
OTK 2000	858x287x46	+	–
OTK 3000	450x480x92 (x2)	+	+
OTK 4000	450x480x92 (x2)	+	+

Hot water duct air heaters

Hot water duct air heaters are offered for KOMPAKT REGO and RECU units. Heaters are mounted on the outside of the unit in any user-convenient place. There is heater control possibility in automatic control system.

Design:
- Galvanized sheet steel casing.
- Copper pipes for heat transfer fluid (water).
- Pacing between profiled aluminum plates is 3 mm (standard spacing). Optional threaded connection for freezing protection alarm sensor (to be specified in the order form).

Capacitive Constraints
- Maximum operating pressure – 10 bar.
- Maximum water temperature +100°C.
- Maximum airflow velocity in the heater 3 m/s.



Hot water duct heater type	Dimensions, mm				Tubes connection
	D	B	H	L	
DH-160	160	330	290	270	½"
DH-200	200	360	320	270	½"
DH-250	250	420	380	270	½"
DH-315	315 (315M)	510	470	270	½"

Air handling unit size	Water temperature in/out 80/60°C*					
	Duct heater	Capacity, kW	Air temperature in/out, °C	Air pressure drop, Pa	Flow rate, dm^3/h	Water pressure drop, kPa
REGO 700	DH-250	4.5	8 / 26	14	196	7.0
REGO 1200P	DH-315	7.3	7 / 25	34	321	10.0
REGO 2000P	DH-315M	12.3	7 / 25	55	540	3.2
RECU 400 V	DH-160	2.7	8 / 27	11	117	2.2
RECU 400 H	DH-200	2.7	8 / 27	11	117	2.2
RECU 700 V	DH-200	3.1	7 / 20	25	144	2.8
RECU 700 H	DH-250	3.1	7 / 20	14	144	3.6
RECU 900 V	DH-200	4.0	7 / 20	40	180	4.5
RECU 900 H	DH-250	4.0	7 / 20	21	180	5.6
RECU 1600P	DH-315M	9.7	7 / 25	38	432	2.1
RECU 2000P	DH-315M	12.3	7 / 25	55	540	3.2

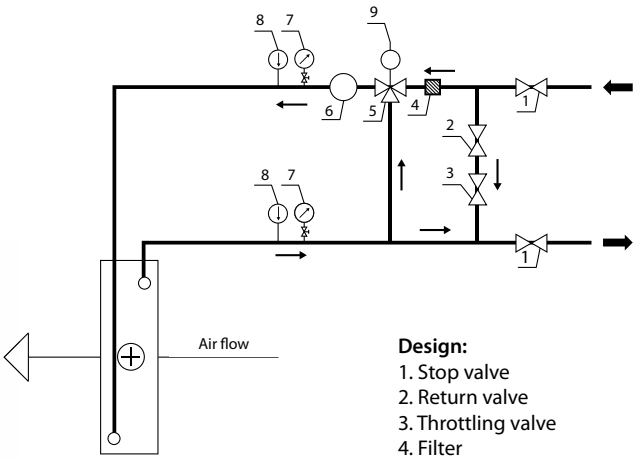
* In case a duct water heater with different water parameters is needed, a temperature from the table has to be chosen and heater's capacity has to be multiplied by an appropriate coefficient (see right).

Inlet air temperature, °C	Water temperature in/out °C			
	60/40	70/50	80/60	90/70
-25	1.19	1.42	1.61	1.82
-20	1.15	1.34	1.52	1.50
-15	1.06	1.24	1.44	1.63
-10	0.98	1.16	1.35	1.53
-5	0.89	1.08	1.27	1.45
0	0.81	0.98	1.18	1.37
+5	0.71	0.90	1.10	1.29
+10	0.63	0.82	1.00	1.19
+15	0.53	0.73	0.92	1.11
+20	0.44	0.63	0.82	1.02

Note: such calculation is approximate.

Pipework Package

Pipework Package Unit PPU is used for the adjustment of thermal power of water heaters, i.e. for the adjustment of thermal media debit via the heater and respectfully, the temperature of supplied air. Fully assembled pipework package is available to each size of the air handing unit where hot water heater is used.



Design:
1. Stop valve
2. Return valve
3. Throttling valve
4. Filter
5. Control valve
6. Circulation pump
7. Manometer
8. Thermometer
9. Actuator

Air handling unit size	Water temperature in/out °C				
	Heater type	**60/40 °C**	**70/50 °C**	**80/60 °C**	**90/70 °C**
REGO 400	Duct heater DH-160	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 500 V	Duct heater DH-250	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 500 H	Duct heater DH-200	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 700	Duct heater DH-250	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 900 U	Integrated heater	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 1200 P	Duct heater DH-315	PPU-0.63-25_20	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20
REGO 1200 U	Integrated heater	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 1400 U	Integrated heater	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20
REGO 1600 U	Integrated heater	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20
REGO 2000 U	Integrated heater	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
REGO 2000 P	Duct heater DH-315	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
REGO 2500 U	Integrated heater	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
REGO 3000 U	Integrated heater	PPU-1.0-25_20	PPU-1.6-25_40	PPU-1.6-25_40	PPU-2.5-25_40
REGO 4000 U	Integrated heater	PPU-2.5-25_40	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60
REGO 4500 U	Integrated heater	PPU-4.0-25_60	PPU-4.0-25_60	PPU-4.0-25_60	PPU-6.3-25_60
REGO 7000	Integrated heater	PPU-4.0-25_60	PPU-4.0-25_60	PPU-4.0-25_60	PPU-4.0-25_60
RECU 400V	Duct heater DH-160	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
RECU 400H	Duct heater DH-200	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
RECU 700V	Duct heater DH-200	–	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
RECU 700H	Duct heater DH-250	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-1.0-25_20
RECU 900V	Duct heater DH-200	–	PPU-0.63-25_20	PPU-0.63-25_20	PPU-1.0-25_20
RECU 900H	Duct heater DH-250	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-1.0-25_20
RECU 1200	Integrated heater	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.6-25_40
RECU 1600	Integrated heater	PPU-2.5-25_40	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60
RECU 1600 P	Duct heater DH-315	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
RECU 2000	Integrated heater	PPU-1.6-25_40	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60
RECU 2000 P	Duct heater DH-315	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
RECU 3000	Integrated heater	PPU-1.6-25_40	PPU-2.5-25_40	PPU-2.5-25_40	PPU-4.0-25_60
RECU 4000	Integrated heater	PPU-4.0-25_60	PPU-6.3-25_60	PPU-6.3-25_60	PPU-6.3-25_60
RECU 4500	Integrated heater	–	PPU-6.3-25_60	PPU-6.3-25_60	PPU-6.3-25_60
RECU 7000	Integrated heater	PPU-4.0-25_60	PPU-4.0-25_60	PPU-4.0-25_60	PPU-4.0-25_60
OTK 1200	Integrated heater	PPU-1.6-25_40	PPU-2.5-25_40	PPU-2.5-25_40	PPU-2.5-25_40
OTK 2000	Integrated heater	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60	PPU-6.3-25_60
OTK 3000	Integrated heater	PPU-4.0-25_60	PPU-6.3-25_60	PPU-6.3-25_60	PPU-10-25_80
OTK 4000	Integrated heater	PPU-6.3-25_60	PPU-10-25_80	PPU-10-25_80	PPU-10-25_80

Note: For more detailed description and selection, pipework package selection program may be used. It can be downloaded from **www.komfovent.com**

Silencers

To ensure the normal noise level in the system and premises, silencers are used. There are circular and rectangular silencers of standard dimensions. Appropriate silencer can be selected using the online selection program, which can be found on **www.komfovent.com.**

STS-C-B-H-L
C – baffler's code
B – silencer's width
H – silencer's height
L – silencer's length

AGS-d-h-L
d – connecting diameter
h – insulation's thickness
L – silencer's length

Silencers for REGO air handling units

Unit size	Silencer type	
REGO 400	A	AGS-160-50-600-M
	B	AGS-160-50-900-M
	C	AGS-160-50-900-M
	D	AGS-160-50-600-M
REGO 500V	A	AGS-250-50-600-M
	B	AGS-250-50-900-M
	C	AGS-250-50-900-M
	D	AGS-250-50-600-M
REGO 500H	A	AGS-200-50-600-M
	B	AGS-200-50-900-M
	C	AGS-200-50-900-M
	D	AGS-200-50-600-M
REGO 700	A	AGS-250-50-600-M
	B	AGS-250-50-900-M
	C	AGS-250-50-900-M
	D	AGS-250-50-600-M
REGO 900 U REGO 1200 U / 1200 P REGO 1400 U REGO 2000 P	A	AGS-315-100-900-M
	B	AGS-315-100-1200-M
	C	AGS-315-100-1200-M
	D	AGS-315-100-900-M
REGO 1600 UV	A	STS-IVR3BA-600-300-700-S
	B	STS-IVR3BA-600-300-1250-S
	C	STS-IVR3BA-600-300-1250-S
	D	STS-IVR3BA-600-300-700-S
REGO 1600 UH	A	STS-IVR3BA-400-400-700-S
	B	STS-IVR3BA-400-400-1250-S
	C	STS-IVR3BA-400-400-1250-S
	D	STS-IVR3BA-400-400-700-S
REGO 2000 UV	A	STS-IVR3BA-600-300-700-S
	B	STS-IVR3BA-600-300-1250-S
	C	STS-IVR3BA-600-300-1250-S
	D	STS-IVR3BA-600-300-700-S
REGO 2000 UH	A	STS-IVR3BA-400-400-700-S
	B	STS-IVR3BA-400-400-1250-S
	C	STS-IVR3BA-400-400-1250-S
	D	STS-IVR3BA-400-400-700-S
REGO 2500 UV	A	STS-IVR3BA-800-300-700-S
	B	STS-IVR3BA-800-300-1250-S
	C	STS-IVR3BA-800-300-1250-S
	D	STS-IVR3BA-800-300-700-S

Unit size	Silencer type	
REGO 2500 UH	A	STS-IVR3BA-600-400-700-S
	B	STS-IVR3BA-600-400-1250-S
	C	STS-IVR3BA-600-400-1250-S
	D	STS-IVR3BA-600-400-700-S
REGO 3000 UV	A	STS-IVR3BA-600-400-700-S
	B	STS-IVR3BA-600-400-1250-S
	C	STS-IVR3BA-600-400-1250-S
	D	STS-IVR3BA-600-400-700-S
REGO 3000 UH	A	STS-IVR3BA-600-500-700-S
	B	STS-IVR3BA-600-500-1250-S
	C	STS-IVR3BA-600-500-1250-S
	D	STS-IVR3BA-600-500-700-S
REGO 4000 UV	A	STS-IVR3BA-800-400-700-S
	B	STS-IVR3BA-800-400-1250-S
	C	STS-IVR3BA-800-400-1250-S
	D	STS-IVR3BA-800-400-700-S
REGO 400 UH	A	STS-IVR3BA-800-500-700-S
	B	STS-IVR3BA-800-500-1250-S
	C	STS-IVR3BA-800-500-1250-S
	D	STS-IVR3BA-800-500-700-S
REGO 4500 UV	A	STS-IVR3BA-1000-400-700-S
	B	STS-IVR3BA-1000-400-1250-S
	C	STS-IVR3BA-1000-400-1250-S
	D	STS-IVR3BA-1000-400-700-S
REGO 4500 UH	A	STS-IVR3BA-800-500-700-S
	B	STS-IVR3BA-800-500-1250-S
	C	STS-IVR3BA-800-500-1250-S
	D	STS-IVR3BA-800-500-700-S
REGO 7000	A	STS-IVR3BA-1200-600-700-S
	B	STS-IVR3BA-1200-600-1250-S
	C	STS-IVR3BA-1200-600-1250-S
	D	STS-IVR3BA-1200-600-700-S

Silencers for RECU air handling units

Unit size	Silencer type	
RECU 400V	A	AGS-160-50-600-M
	B	AGS-160-50-900-M
	C	AGS-160-50-900-M
	D	AGS-160-50-600-M
RECU 400H	A	AGS-200-50-600-M
	B	AGS-200-50-900-M
	C	AGS-200-50-900-M
	D	AGS-200-50-600-M
RECU 700V	A	AGS-200-50-600-M
	B	AGS-200-50-900-M
	C	AGS-200-50-900-M
	D	AGS-200-50-600-M
RECU 700H	A	AGS-250-50-600-M
	B	AGS-250-50-900-M
	C	AGS-250-50-900-M
	D	AGS-250-50-600-M
RECU 900V	A	AGS-200-50-600-M
	B	AGS-200-50-900-M
	C	AGS-200-50-900-M
	D	AGS-200-50-600-M
RECU 900H	A	AGS-250-50-900-M
	B	AGS-250-50-1200-M
	C	AGS-250-50-1200-M
	D	AGS-250-50-900-M
RECU 1200V	A	AGS-250-50-900-M
	B	AGS-250-50-1200-M
	C	AGS-250-50-1200-M
	D	AGS-250-50-900-M
RECU 1200H	A	AGS-315-100-900-M
	B	AGS-315-100-1200-M
	C	AGS-315-100-1200-M
	D	AGS-315-100-900-M
RECU 1600V RECU 1600P	A	AGS-315-100-900-M
	B	AGS-315-100-1200-M
	C	AGS-315-100-1200-M
	D	AGS-315-100-900-M
RECU 1600H	A	AGS-355-100-900-M
	B	AGS-355-100-1200-M
	C	AGS-355-100-1200-M
	D	AGS-355-100-900-M

Unit size	Silencer type	
RECU 2000	A	AGS-355-100-900-M
	B	AGS-355-100-1200-M
	C	AGS-355-100-1200-M
	D	AGS-355-100-900-M
RECU 2000 P	A	AGS-315-100-900-M
	B	AGS-315-100-1200-M
	C	AGS-315-100-1200-M
	D	AGS-315-100-900-M
RECU 3000	A	STS-IVR3BA-600-500-700-S
	B	STS-IVR3BA-600-500-1250-S
	C	STS-IVR3BA-600-500-1250-S
	D	STS-IVR3BA-600-500-700-S
RECU 4000	A	STS-IVR3BA-800-500-700-S
	B	STS-IVR3BA-800-500-1250-S
	C	STS-IVR3BA-800-500-1250-S
	D	STS-IVR3BA-800-500-700-S
RECU 4500	A	STS-IVR3BA-800-500-700-S
	B	STS-IVR3BA-800-500-1250-S
	C	STS-IVR3BA-800-500-1250-S
	D	STS-IVR3BA-800-500-700-S
RECU 7000	A	STS-IVR3BA-1200-600-700-S
	B	STS-IVR3BA-1200-600-1250-S
	C	STS-IVR3BA-1200-600-1250-S
	D	STS-IVR3BA-1200-600-700-S

Silencers for OTK air handling units

Unit size	Silencer type	
OTK 700P	A	AGS-200-50-600-M
	B	AGS-200-50-900-M
OTK 1200P	A	AGS-250-50-900-M
	B	AGS-250-50-1200-M
OTK 2000P	A	STS-IVR3BA-800-250-700-S
	B	STS-IVR3BA-800-250-1250-S
OTK 3000P	A	STS-IVR3BA-600-400-700-S
	B	STS-IVR3BA-600-400-1250-S
OTK 4000P	A	STS-IVR3BA-800-400-700-S
	B	STS-IVR3BA-800-400-1250-S

Note: Acoustic countable data is: 50 dB(A) for exhaust outlet and 40 dB(A) for supply outlet. For other parameters use our selection program from **www.komfovent.com**.

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Motorized closing dampers

To protect air handling units from freezing or other external factors motorized closing dampers must be used. They are mounted on supply and exhaust vents. There is dampers control possibility in automatic control system.

Unit size	Damper
REGO 400	AGUJ-M-160
REGO 500 V	AGUJ-M-250
REGO 500 H	AGUJ-M-200
REGO 700	AGUJ-M-250
REGO 900 U	AGUJ-M-315
REGO 1200 U	AGUJ-M-315
REGO 1200 P	AGUJ-M-315
REGO 1400 U	AGUJ-M-315
REGO 1600 UH	SRU-M-300x400
REGO 1600 UV	SRU-M-400x300
REGO 2000 UH	SRU-M-300x400
REGO 2000 UV	SRU-M-400x300
REGO 2000 P	AGUJ-M-315
REGO 2500 UH	SRU-M-300x400
REGO 2500 UV	SRU-M-400x300
REGO 3000 UH	SRU-M-400x500
REGO 3000 UV	SRU-M-500x400
REGO 4000 UH	SRU-M-400x500
REGO 4000 UV	SRU-M-500x400
REGO 4500 UH	SRU-M-400x500
REGO 4500 UV	SRU-M-500x400
REGO 7000	SRU-M-1200x600

Unit size	Damper
RECU 400 V	AGUJ-M-160
RECU 400 H	AGUJ-M-200
RECU 700 V	AGUJ-M-200
RECU 700 H	AGUJ-M-250
RECU 900 V	AGUJ-M-200
RECU 900 H	AGUJ-M-250
RECU 1200 V	AGUJ-M-250
RECU 1200 H	AGUJ-M-315
RECU 1600 V	AGUJ-M-315
RECU 1600 H	AGUJ-M-355
RECU 1600 P	AGUJ-M-315
RECU 2000	AGUJ-M-355
RECU 2000 P	AGUJ-M-315
RECU 3000	SRU-M-600x500
RECU 4000	SRU-M-600x500
RECU 4500	SRU-M-600x500
RECU 7000	SRU-M-1200x600
OTK 700 P	AGUJ-M-200
OTK 1200 P	AGUJ-M-250
OTK 2000 P	SRU-M-700x250
OTK 3000 P	SRU-M-600x400
OTK 4000 P	SRU-M-600x400

Control system	Actuator	
	LF24	LM24A
KOMFOVENT C3, C5	+	+

Note:
LF damper actuator is with spring-return
LM damper actuator is without spring-return

Summer Cassette for Plate Heat Exchanger

Cassette is used in summer if air is not conditioned by other equipment. It can be used in units without air by-pass damper: KOMPAKT RECU 400, RECU 700, RECU 900, RECU 1200. Unusable for counterflow plate heat exchangers.

Accessories for unit outside installation

KOMFOVENT KOMPAKT air handling units can be installed outside due to thick casing insulation and easy mounting.
Protective optional accessories should be used if unit is for outside installation: roof, base frame, legs, grills, supply and exhaust hoods.

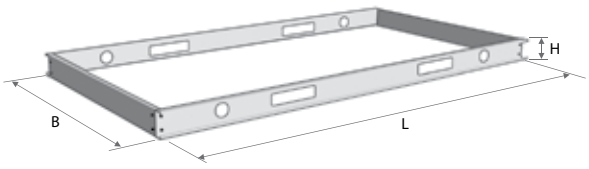
Air handling unit size	Roof code	Dimensions BxL
REGO (500-700) H	712200023	910x1210
REGO (900-1200-1400) U	712200264	1180X1555
REGO (1600-2000-2500) UH	712232873	1165x1700
REGO (3000-4000-4500) UH	712238424	1260x2300
REGO 7000 H	712200252	1790x2050
RECU 400 H	712232869	505x1300
RECU (700-900) H	712237971	605x1470
RECU 700 HCF	712200247	590x1700
RECU 1200 H	712232870	855x1870
RECU (1600-2000) H	712232868	1000x2110
RECU (3000-4000-4500) H	712232875	1260x2700
RECU 7000 H	712200253	1790x2800

Air handling unit size	Type of hood for supply air	Type of hood for exhaust air
REGO 500 H	G-350x350	AHIA-200
REGO 700 H	G-350x350	AHIA-250
REGO (900-1200-1400) U	G-600x430	AHIA-315
REGO (1600-2000-2500) U	G-600x430	G-600x430
REGO (3000-4000-4500) U	G-540x1115	G-540-1115_10
REGO 7000 H	V-40-34-00.000.2	V-40-34-00.000
RECU 400 H	G-270x270	AHIA-200
RECU (700-900) H	G-350x350	AHIA-250
RECU 700 HCF	G-350x350	AHIA-250
RECU 1200 H	G-600x430	AHIA-315
RECU (1600-2000) H	G-600x430	AHIA-355
RECU (3000-4000-4500) H	G-700x600	G-700x600
RECU 7000 H	V-40-34-00.000.2	V-40-34-00.000

Standard base frame for air handling units

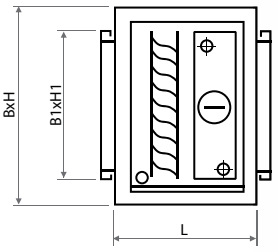
Air handling unit size	Frame type	Dimensions BxHxL
REGO 400 H	SSK-07.001A	460x100x640
REGO (500-700) V	SSK-08.001A	585x100x1060
REGO (500-700) H	SSK-09.001A	585x100x930
REGO (900-1200-1400) U	SSK-15.001A	840x100x1340
REGO (1600-2000-2500) U	SSK-12.001A	850x100x1500
REGO (3000-4500) U	SSK-13.001A	1100x100x2100
RECU 400 H	SSK-00.001A	340x100x1000
RECU (700-900) H	SSK-01.001A	440x100x1170
RECU 700 HCF	SSK-14.001A	390x100x1500
RECU 1200 H	SSK-02.001A	650x100x1670
RECU (1600-2000) H	SSK-03.001A	650x100x1900
RECU (3000-4000-4500)	SSK-04.001A	1100x100x2400

Note: Standard frame is 100 mm height, without feet, painted RAL 7035.



Water and direct evaporation air coolers

Air cooler is mounted on the outside of the unit.
Casing of the cooler section corresponds to the unit's casing: galvanized steel sheets with internal mineral wool insulation of 45 mm thickness. Cooler section is assembled with a drop separator and a drain tray. Cooler control function is provided in the automatic control system of the unit.
Internal fluid – R410A, water 7/12.



Air handling unit size	Cooler's type	Supply air volume, m^3/h	Air temper. in/out, °C	Capacity, kW	Air pressure drop, Pa*	Fluid pressure loss, kPa	BxHxL, mm	B1xH1, mm	Tubes connections	Weight, kg
REGO/RECU400	DCF-0,4-2	400	30/18	2,38	48	5,47	605x550x390	300x400	½" /22 mm	37
	DCW-0,4-2	400	30/18	2,34	29	19	505x550x390	300x400	½"	32
REGO 500	DCF-0,5-3	500	30/18	2,97	43	4,91	600x550x390	400x300	½" /22 mm	38
	DCW-0,5-3	500	30/18	2,92	23	0,45	600x550x390	400x300	½"	35
REGO/RECU 700	DCF-0,7-4	700	30/18	4,16	53	2,57	705x610x390	500x400	½" /22 mm	46
	DCW-0,7-4	700	30/18	4,09	18	14	705x610x390	500x400	½"	41
REGO/RECU 900	DCF-0,9-5	900	30/18	5,3	64	3,89	705x610x390	500x400	½" /22 mm	46
	DCW-0,9-5	900	30/18	5,26	31	4,1	705x610x390	500x400	¾"	45
REGO/RECU 1200	DCF-1,2-7	1200	30/18	7,13	93	6,11	705x610x390	500x400	½" /22 mm	46
	DCW-1,2-7	1200	30/18	7,01	44	6,9	705x610x390	500x400	3/4"	45
REGO 1400	DCF-1,4-8	1400	30/18	8,3	100	8,3	705x610x390	500x400	½" /22 mm	46
	DCW-1,4-8	1400	30/18	8,2	64	9,1	705x610x390	500x400	¾"	45
REGO/RECU 1600	DCF-1,6-10	1600	30/18	9,51	118	11,17	755x610x420	500x400	½" /22 mm	49
	DCW-1,6-9	1600	30/18	9,35	56	19	755x610x420	500x400	¾"	46
REGO/RECU 2000	DCF-2,0-12	2000	30/18	11,89	106	2,95	920x610x420	700x400	½" /22 mm	56
	DCW-2,0-12	2000	30/18	11,69	53	15	920x610x420	700x400	¾"	56
REGO 2500	DCF-2,5-15	2500	30/18	14,86	92	3,81	1080x670x420	800x400	½" /28 mm	68
	DCW-2,5-15	2500	30/18	14,61	42	17	1080x670x420	800x400	¾"	65
REGO/RECU 3000	DCF-3,0-18	3000	30/18	17,83	112	5,3	1080x670x420	800x400	½" /28 mm	68
	DCW-3,0-21	3000	30/18	20,82	58	19	1080x670x420	800x400	1"	69
REGO/RECU 4000	DCF-4,0-24	4000	30/18	23,77	101	8,24	1220x730x420	900x500	⅞"/28 mm	80
	DCW-4,0-23	4000	30/18	23,38	93	17	1220x730x420	900x500	1"	82
REGO/RECU 4500	DCF-4,5-27	4500	30/18	26,74	115	8,16	1220x790x420	900x600	⅞"/28 mm	84
	DCW-4,5-26	4500	30/18	26,3	94	17	1220x790x420	900x600	1"	86
REGO/RECU 7000	DCF-7,0-42	7000	30/21	2x20,8	141	3,17	1500x790x480	1200x600	2x⅝"/2x28 mm	107
	DCW-7,0-41	7000	30/18	40,91	138	17	1500x790x420	1200x600	1 ½"	105
OTK 700P	DCF-0,7-4	700	30/18	4,16	53	2,57	705x610x390	500x400	½" /22 mm	46
	DCW-0,7-4	700	30/18	4,09	18	14	705x610x390	500x400	½"	41
OTK 1200P	DCF-1,2-7	1200	30/18	7,13	93	6,11	705x610x390	500x400	½" /22 mm	46
	DCW-1,2-7	1200	30/18	7,01	44	6,9	705x610x420	500x400	¾"	45
OTK 2000P	DCF-2,0-12	2000	30/18	11,89	106	2,95	920x610x420	700x400	½" /22 mm	56
	DCW-2,0-12	2000	30/18	11,69	53	15	920x610x420	700x400	¾"	56
OTK 3000P	DCF-3,0-18	3000	30/18	17,83	112	5,3	1080x670x420	800x400	½" /28 mm	68
	DCW-3,0-21	3000	30/18	20,82	58	19	1080x670x420	800x400	1"	69
OTK 4000P	DCF-4,0-24	4000	30/18	23,77	101	8,24	1220x730x420	900x500	⅞"/28 mm	80
	DCW-4,0-23	4000	30/18	23,38	93	17	1220x730x420	900x500	1"	82

* With drop eliminator.

Water and direct evaporation air coolers

Duct direct expansion coil suitable for condenser unit MOU.
Internal fluid – R410A.

Air handling unit size	Cooler's type	Supply air volume, m^3/h	Air temper. in/out, °C	Capacity, kW	Air pressure drop, Pa*	Fluid pressure loss, kPa	BxHxL, mm	B1xH1, mm	Tubes connections	Weight, kg
REGO/RECU 400	DCF-0,4-2	400	30/18	2,38	48	5,47	605x550x390	300x400	½" /22 mm	37
REGO 500	DCF-0,5-3	500	30/18	2,97	43	4,91	600x550x390	400x300	½" /22 mm	38
REGO/RECU 700	DCF-0,7-4	700	30/18	4,16	53	2,57	705x610x390	500x400	½" /22 mm	46
REGO/RECU 900	DCF-0,9-5	900	30/18	5,3	64	3,89	705x610x390	500x400	½" /22 mm	46
REGO/RECU 1200	DCF-1,2-7	1200	30/18	7,13	93	6,11	705x610x390	500x400	½" /22 mm	46
REGO 1400	DCF-1,4-8	1400	30/18	8,3	100	8,3	705x610x390	500x400	½" /22 mm	46
REGO/RECU 1600	DCF-1,6-10	1600	30/18	9,51	118	11,17	755x610x420	500x400	½" /22 mm	49
REGO/RECU 2000	DCF-2,0-12	2000	30/18	11,89	106	2,95	920x610x420	700x400	½" /22 mm	56
REGO 2500	DCF-2,5-15	2500	30/18	14,86	92	3,81	1080x670x420	800x400	½" /28 mm	68
REGO/RECU 3000	DCF-3,0-18	3000	30/18	17,83	112	5,3	1080x670x420	800x400	½" /28 mm	68
REGO/RECU 4000	DCF-4,0-24	4000	30/18	23,77	101	8,24	1220x730x420	900x500	⅞"/28 mm	80
REGO/RECU 4500	DCF-4,5-27	4500	30/18	26,74	115	8,16	1220x790x420	900x600	⅞"/28 mm	84
REGO/RECU 7000	DCF-7,0-42	7000	30/21	2x20,8	141	3,17	1500x790x480	1200x600	2x⅝"/2x28 mm	107
OTK 700P	DCF-0,7-4	700	30/18	4,16	53	2,57	705x610x390	500x400	½" /22 mm	46
OTK 1200P	DCF-1,2-7	1200	30/18	7,13	93	6,11	705x610x390	500x400	½" /22 mm	46
OTK 2000P	DCF-2,0-12	2000	30/18	11,89	106	2,95	920x610x420	700x400	½" /22 mm	56
OTK 3000P	DCF-3,0-18	3000	30/18	17,83	112	5,3	1080x670x420	800x400	½" /28 mm	68
OTK 4000P	DCF-4,0-24	4000	30/18	23,77	101	8,24	1220x730x420	900x500	⅞"/28 mm	80

* With drop eliminator.

Outdoor units

Inverter outdoor units are supplied with control modules.

Type	Capacity, kW	Maximal operating current, A	Supply voltage, V	Refrigerant type	Sound level, dB (A)	Diameter of tubes for fluid/gas, mm	Maximal length of tubes, m
Inverter MOU-18HFN1	5,3	10	230	R410A	60	∅6,35/∅12,7 (¼"/½")	30
Inverter MOU-24HFN1	7,3	13	230	R410A	60	∅9,52/∅15,9 (⅜"/⅝")	50
Inverter MOU-30HFN1	8,8	18	230	R410A	61	∅9,52/∅15,9 (⅜"/⅝")	50
Inverter MOU-36HFN1	10,5	11	400	R410A	63	∅9,52/∅15,9 (⅜"/⅝")	65
Inverter MOU-48HDN1	14,0	13	400	R410A	63	∅9,52/∅15,9 (⅜"/⅝")	65
Inverter MOU-60HDN1	16,0	15	400	R410A	64	∅9,52/∅15,9 (⅜"/⅝")	65
ON/OFFMOU-48HN1	14,1	10,5	400	R410A	59	∅12,7/∅19,0 (½"/¾")	50
ON/OFF MOU-60HN1	17,6	12,8	400	R410A	60	∅12,7/∅19,0 (½"/¾")	50

Control System Accessories

AQ function

Air quality sensor
Supply voltage 24V AC/DC. Output signal 0-10V DC. Detected gas: CO, H_2S, solvent steam, alcohol steam, cigarette smoke, exhaust steam, expiratory air.

Humidity sensor
Supply voltage 24V AC/DC. Output signal 0-10V DC. Measured humidity range 0-100%.

CO_2 sensor
Supply voltage 24V AC/DC. Output signal 0-10V DC. CO_2 measured range 0-2000 ppm.

OVR function

Pressure switch
Pressure range 0-500 Pa. Safety class IP54. 1 change-over contact (NO+NC).

Movement detector (PIR)
Movement detector (PIR) for OVR function. Detection angle 180°. Max. distance 12 m. Safety class IP44.

Humidistat
Humidity range 35-95%. 1 change-over contact (NO+NC). Safety class IP30.

CO_2 switch
Relay output. Measured range 450-1800 ppm. Supply voltage 18-32V DC/12-18V AC.

"PC control" function

Network module "Ping2"
Network module "Ping2" is intended for connection of KOMFOVENT air handling units with C3 controller to the computer network (Ethernet) or another network (RS-485).

Air damper actuator
Air damper actuator is intended for additionally mounted duct air dampers. Supply voltage 24V AC/DC. Control: open-close or 3 point. Selection of rotation direction.

VAV function

Pressure sensor
Pressure sensor for VAV function. Supply voltage 24V AC output signal 0-10V DC. 8 selected diapasons: 0...100/200/300/500/1000/1500/2000/2500 Pa.

Electric Wiring of Air Handling Units

When the air handling unit is installed, the user should just connect it to the mains power supply and install one temperature sensor in the supply air duct, and in case of need extend the connecting cable of the control panel. The units with a hot water air heater are provided with extra connecting cables for a heating damper drive, a pump, and an air damper drive. If the air handling unit voltage is ~230V; 50 Hz it is necessary to install the socket with grounding of corresponding capacity. If the voltage is ~400V; 50 Hz, the cable of electrical power supply is con-nected to the main switch, which is located on the unit's outside wall.

The air handling units power supply cable types are specified in the table:

Type of the air handling unit	Electric power supply connecting cable, mm²
REGO 400 HE	3 x 1,5
REGO 500 H(V)E	3 x 1,5
REGO 700 H(V)E	3 x 1,5
REGO 900 UH(V)E	5 x 1,5
REGO 900 UHW	3 x 1,5
REGO 1200 UH(V)E	5 x 1,5
REGO 1200 UHW	3 x 1,5
REGO 1200 PE	5 x 1,5
REGO 1400 UH(V)E	5 x 1,5
REGO 1600 UH(V)E	5 x 1,5
REGO 1600 UH(V)W	3 x 1,5
REGO 2000 UH(V)E	5 x 2,5
REGO 2000 UH(V)W	3 x 1,5
REGO 2000 PE	5 x 1,5
REGO 2500 UH(V)E	5 x 2,5
REGO 2500 UH(V)W	3 x 1,5
REGO 3000 UH(V)E	5 x 2,5
REGO 3000 UH(V)W	5 x 1,5
REGO 4000 UH(V)E	5 x 6,0
REGO 4000 UH(V)W	5 x 1,5
REGO 4500 UH(V)E	5 x 6,0
REGO 4500 UH(V)W	5 x 1,5
REGO 7000 HW	5 x 1,5

Type of the air handling unit	Electric power supply connecting cable, mm²
RECU 400 H(V)E	3 x 1,5
RECU 700 H(V)E	3 x 1,5
RECU 700 H(V)ECF-EC	3 x 1,5
RECU 900 H(V)E	5 x 1,5
RECU 1200 H(V)E-EC	5 x 2,5
RECU 1200 H(V)W-EC	3 x 1,5
RECU 1600 H(V)E-EC	5 x 4,0
RECU 1600 H(V)W-EC	3 x 1,5
RECU 1600 PE	5 x 2,5
RECU 2000 HE-EC	5 x 10,0
RECU 2000 HW-EC	3 x 1,5
RECU 2000 PE	5 x 2,5
RECU 3000 HE-EC	5 x 6,0
RECU 3000 HW-EC	5 x 1,5
RECU 4000 HE-EC	5 x 10,0
RECU 4000 HW-EC	5 x 1,5
RECU 4500 HE-EC	5 x 10,0
RECU 4500 HW-EC	5 x 1,5
RECU 7000 HW-EC	5 x 1,5

Type of the air handling unit	Electric power supply connecting cable, mm²
OTK 700 P-E3	3 x 2,5
OTK 700 P-E6	5 x 1,5
OTK 700 P-E9	5 x 2,5
OTK 1200 P-E9	5 x 2,5
OTK 1200 P-E15	5 x 4,0
OTK 1200 PW	3 x 1,5
OTK 2000 P-E15	5 x 4,0
OTK 2000 P-E22,5	5 x 10,0
OTK 2000 PW	3 x 1,5
OTK 3000 PW-EC	5 x 1,5
OTK 4000 PW-EC	5 x 1,5

Note: control panel connecting cable type: 4x0,22 mm²

Ordering Key

Ordering key

X X X X X - X - X - X - X

AHU type:
REGO – units with rotary heat exchanger
RECU – units with plate heat exchanger
OTK – flat supply air units

Unit size

Universal connection (REGO 900-4500 only)

Version: H – horizontal, V – vertical, P – flat

Air heater: W – water, E – electric,
CF – counter cross-flow plate heat exchanger

Inspection side: R – right, L – left

Motor type: EC, AC

Controller type: C3, C5

Filter class

Ordering example Nr.1

REGO 3000 U H W - L - EC - C5 - M5

AHU type:
REGO – units with rotary heat exchanger

Unit size 3000

Universal connection (REGO 900-4500 only)

Horizontal version

Water air heater

Left inspection side

Motor type EC

Controller C5

Filter class M5

Ordering example Nr.2

OTK 700 P E9 C3

Supply air unit OTK

Unit size 700

Flat model

Electric air heater 9 kW

Controller C3

The determination of inspection side:
Right side – looking to the air handling unit from the inspection door side, the supply air fan is on the right side.
Left side – looking to the air handling unit from the inspection door side, the supply air fan is on the left side.

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