komfovent®
kompakt

KOMPAKT Air Handling Units


Plug & Play
Clever & Easy control
Energy saving
Ready for PC control
EC motors
Air flow control & indication
Ready for VAV control
Ready to control Air Quality

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.

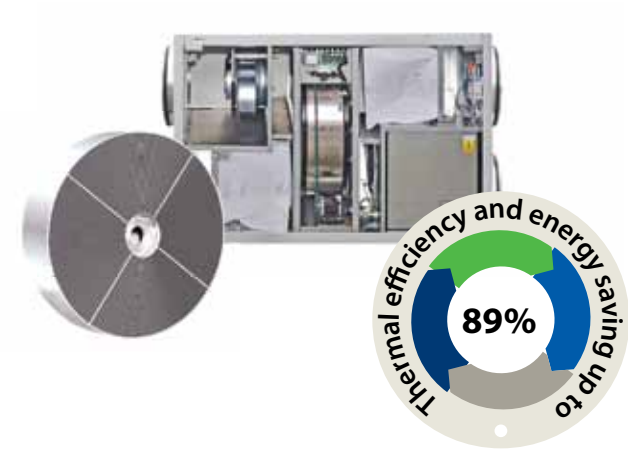
All KOMPAKT units are based on the principle of PLUG & PLAY: each unit has the integrated control system and is delivered with a complete automatic control installed and pre-wired inside the unit. A modern control panel with touch-sensitive buttons is included in each KOMPAKT unit supplied.

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.

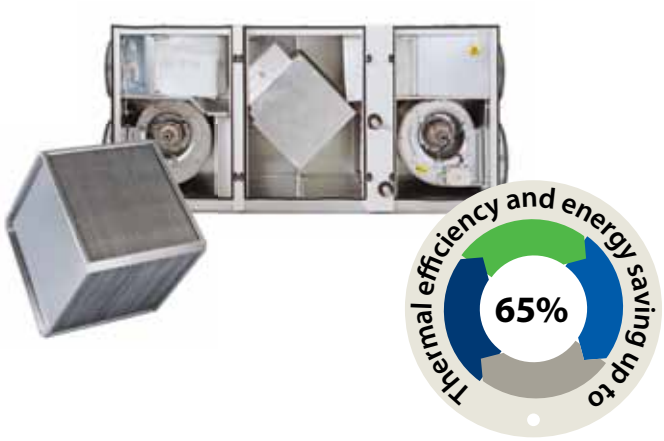
KOMPAKT REGO
Units with rotary heat exchanger

Capacity range from 170 to 8000 m^3/h.
Efficiency factor – up to 89%.



KOMPAKT RECU
Units with plate heat exchanger

Capacity range from 220 to 8000 m^3/h.
Efficiency factor – up to 65%.

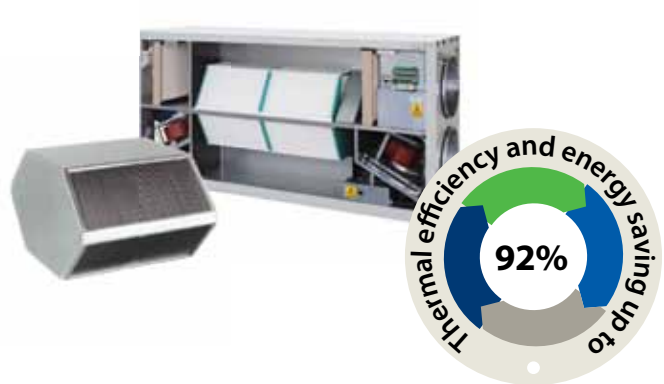


KOMPAKT OTK
False ceiling supply air units

Capacity range from 100 to 4 200 m^3/h.
Extra compact size – height is only 350 mm and 545 mm for 4 200 m^3/h air flow.

Units with high efficiency counter cross-flow plate heat exchanger

Capacity – 700 m^3/h.
Efficiency factor – up to 92%.



Reasons to choose KOMFOVENT KOMPAKT Units

PLUG & PLAY solution

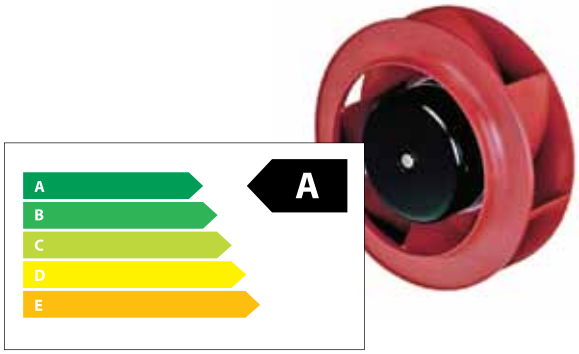
Smart design: all units have a fully integrated automatic control without any external electrical boxes.

Modern and attractive control panels enable a customer to select the desirable functions, set and change parameters as well as observe the ventilation processes on LCD screen.
The special control system designed by our qualified engineers contributes to energy saving.

High efficiency EC motors

Low energy consumption – EC motors inside every unit

High efficiency EC (electronically commutated) motors use 50% less energy than AC (alternating current) motors with voltage control.
High efficiency is determined by low level energy consumption and high efficiency factor.
The rotary wheels are also equipped with efficient and silent EC motors.



High thermal efficiency of the units

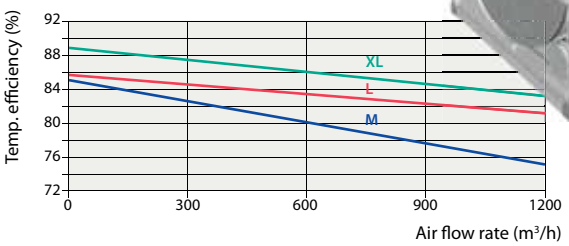
The approved parameters of high thermal efficiency of the units

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.

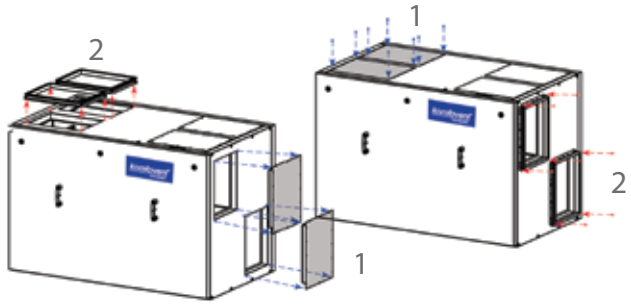
KOMFOVENT KOMPAKT air handling units are available in two versions – vertical or horizontal. Units are compact, therefore it is easy to place them in an attic, basement or other premises. Low units' height allows them to be mounted in the suspended ceiling or on the wall. The units are designed to be 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 1600/2000/2500

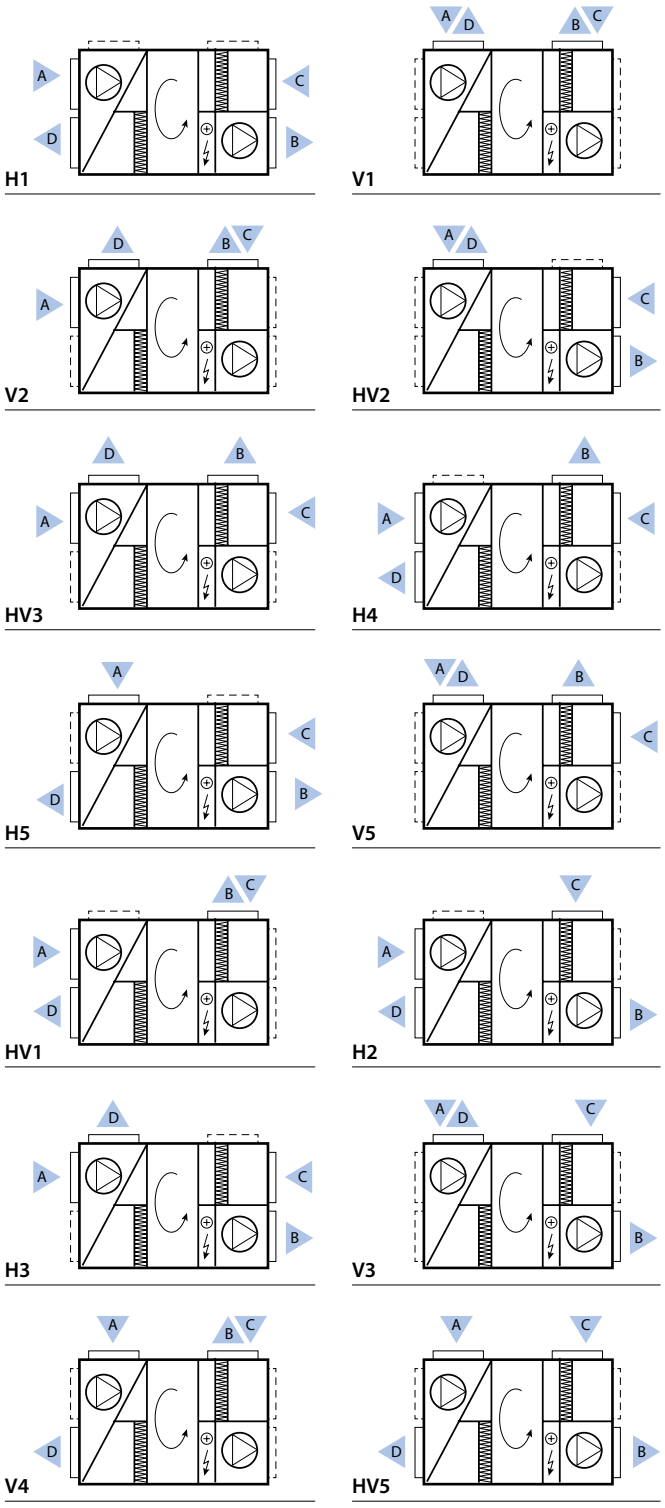
- One unit may have up to 14 connection possibilities;
- Big advantage of having possibility to adapt the unit duct connections directly on the site;
- Perfect solution for keeping unit in stock;
- When ordering the desired version may be chosen at once by indicating the code of the connection.

Units REGO of sizes 1600, 2000, 2500 have the universal construction of 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 1600/2000/2500



- - - 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

Reasons to choose KOMFOVENT KOMPAKT Units

Air cooling possibility: water or direct expansion

All KOMPAKT units can be equipped with separate cooling section. Cooling section casing is the same as unit's one: insulated with mineral wool, painted and including drainage trap.

Each size is offered with appropriate cooling section: water or direct expansion (see page 80).

Outdoor units KOMFOVENT for direct expansion cooling are also available in assortment (see page 81).

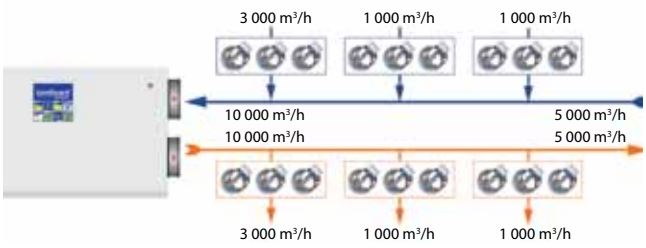
Modern automatic control – efficient unit operation

Variable Air Volume (VAV) function included for ventilation on demand

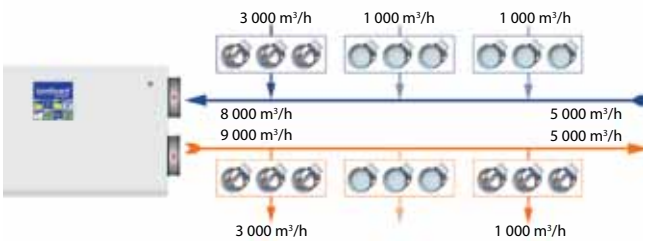
Variable Air Volume (VAV) control mode is when air handling unit operates depending on changeable ventilation demands in separate premises. By those demands controlled ventilation system ensures ventilation only where is needed, therefore such air volume control mode signally reduces unit's exploitation costs, prolongs unit's life time, filters are less polluted.
VAV function is created for operation costs optimization. When demands are changing quite often, this control mode tangibly reduces energy consumption and correspondingly all operational unit costs.
According to the experiments, when due to this function ventilation intensity is reduced by 30% – energy consumption of the fans is reduced up to 60%.

Pictures provided below briefly explain VAV functioning principle:

- All premises are used in the buildings. Air dampers are open. Ventilation intensity is nominal in accordance with the designed and set parameters.

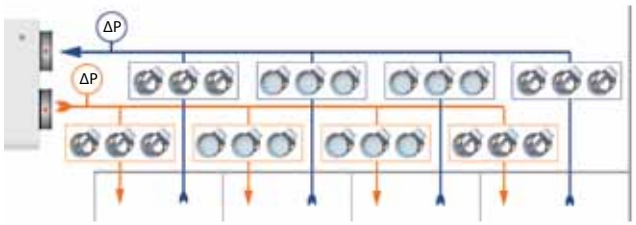


- Some premises are not used; dampers in those premises are closed. Ventilation intensity is corrected and reduced in accordance with actual demand of air.

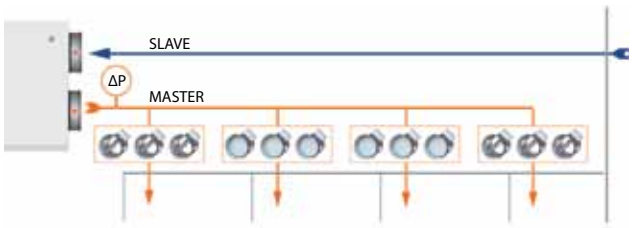


VAV control may be carried out in two versions: two flows and single flow.

- **Two-flows VAV control**
  Complete operation mode - when supply and exhaust air flows are controlled by separate pressure sensors mounted in ducts. This type of control is useful in ventilation systems with independent air flow change.



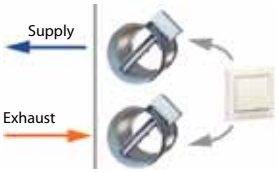
- **Single flow VAV control**
  Simplified mode - one air flow is controlled in accordance with the pressure sensor mounted in the supply or exhaust air duct and another air flow is controlled depending on the first air flow intensity. The air flow control is called "Master" and the guided one is called "Slave". This type of control is useful when the ventilation system can change only in one air flow direction, for example, only the supply air changes and other system is steady.



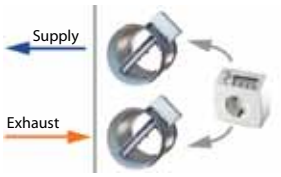
Possible solutions for the implementation of VAV system

In VAV function, ventilation system changes are stipulated by other independent control system which determines ventilation needs in different premises. This may be the air dampers with electrical actuators, air quality, motion control and other sensors control system constantly monitoring the need for ventilation.

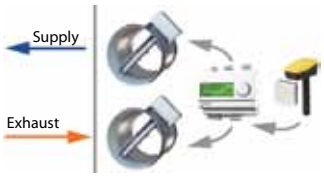
1. Discrete manual control
As an example of motorized air dampers controlled with a simple switch.



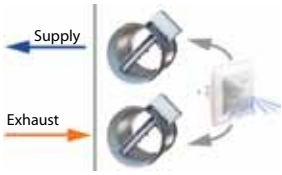
2. Automatic control with timer
Motorized air dampers controlled by the weekly timer.



3. Automatic digital control
As an example of motorized air dampers controlled by a motion sensor.



4. Automatic modulating control
As an example of motorized air dampers controlled by an external controller, which communicates with different type sensors like CO_2, humidity, air quality, etc.



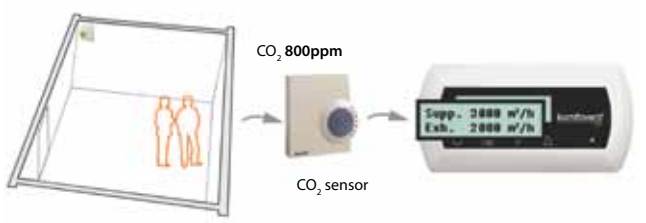
Constant Air Volume function CAV

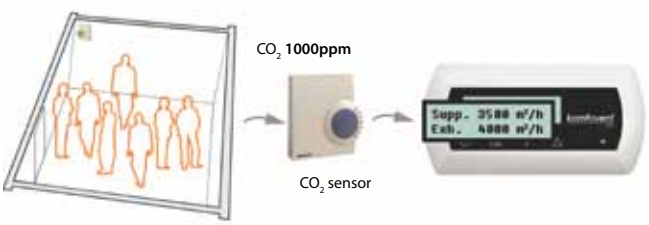
Constant Air Volume (CAV) control mode is when unit supplies and exhausts constant air volume preset by the user, independent of the processing changes in the ventilation system.
Air flow will automatically be adjusted to be exactly the same as it was set by the user.

Reasons to choose KOMFOVENT KOMPAKT Units

Air quality maintenance

Consistent air quality is ensured by controlling humidity, CO_2 level or other parameters.
Fresh air is one of the most important conditions for creating comfort. Therefore the air handling units are provided with the functions of temperature maintenance and air quality control.
The most usual way to control air quality is to plan the unit operation. The function of unit weekly schedule programming allows setting daily events and assigning desirable ventilation rate for every event.
Air quality always changes depending on the number of people in the premise or other external factors. The best way of air quality control is to analyze air quality in the premise using air quality sensor and according to it's indication, to increase or decrease the ventilation intensity.





User does not need to concern about the intensity that should be set for the best air quality. The lowest intensity level should be set and air handling unit starts to control the level automatically in accordance with the ventilation demand: if it increases, the intensity of ventilation also increases.
This is an energy saving solution: if there is some fresh air in the premises, unit will operate at the lowest intensity consuming minimum amount of energy.
Different possibilities of air quality control are available. Everything depends on the parameters, which user wants to control, and on the basis on this, the corresponding sensors must be chosen: air quality, humidity, CO_2.

Air flow visual indication on panel display

Control panel displays the actual air flow of supply and exhaust air. This is a very convenient and useful possibility to control and set the demanded air flows to ensure comfort conditions and exact operation of the system.

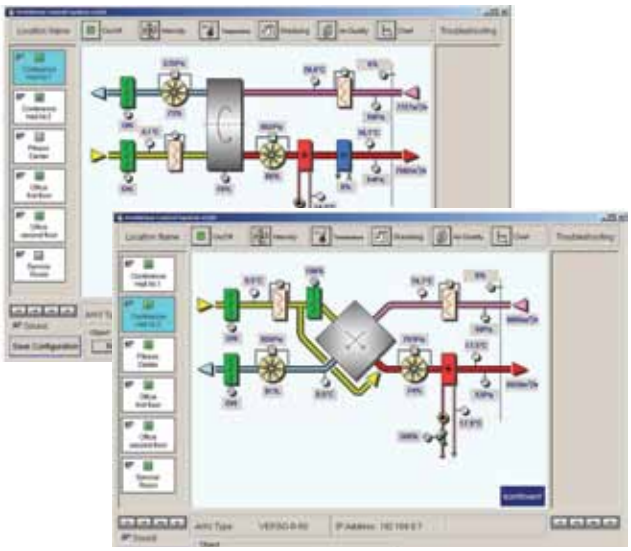
Precise intensity setting and air flow adjustment

In the air handling units each of three ventilation intensity levels maintained air flow can be adjusted and set separately for the supply and exhaust air. It can be set from 20 up to 100% by 1% steps.

Intelligent control of equipment operation via Internet by using the specially adapted "Ping" net module

Network module "Ping" intended for the connection of KOMFOVENT air handling units to the internet, local computer or another network. "Ping" module works on the bases of "Modbus" protocol and has two connection interfaces: "Ethernet" and "RS-485".

After the connection of air handling units through the "Ping" modules to the provided network and giving them unique addresses (IP or ID) Ventilation Control System visualization program gives a possibility for the user to monitor and control the operation of air handling units from the computer, also to indicate the failures.



KOMFOVENT KOMPAKT REGO units

KOMFOVENT KOMPAKT REGO air handling units with rotary heat exchanger.
Capacity range from 170 to 8000 m³/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 89% 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

Rotary Heat Exchanger

Tested in accordance with the certification program for rotary heat exchangers of EUROVENT CERTIFICATION and complies with the requirements of EN 308.

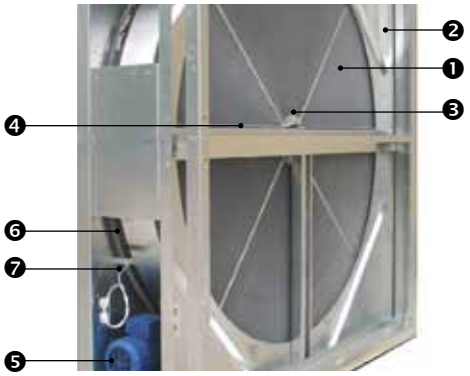
The efficiency on the demand up to 89%: three levels of rotor efficiency are available. Optimum efficiency is achieved with M type rotor, higher values may be reached with standard L type or optional XL type rotor.

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

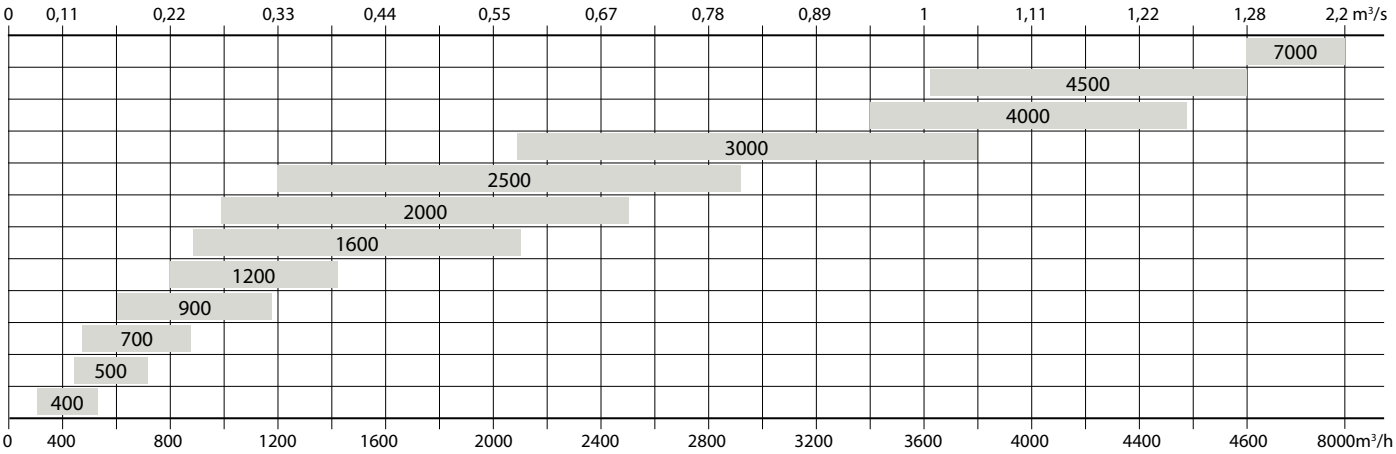
- High efficiency coefficient – up to 89%.
- Not freezing.
- 4 times lower energy consumption for warming up the air.
- Humidity is transferred to supply air – there is no need for additional humidifier in the premises.
- No drainage is necessary– easy unit installation.
- Very compact in size.
- Cooled air may be recovered that results in the reduced energy consumption for air cooling.



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
7. Rotor rotation sensor

Standard sizes of KOMFOVENT KOMPAKT REGO units



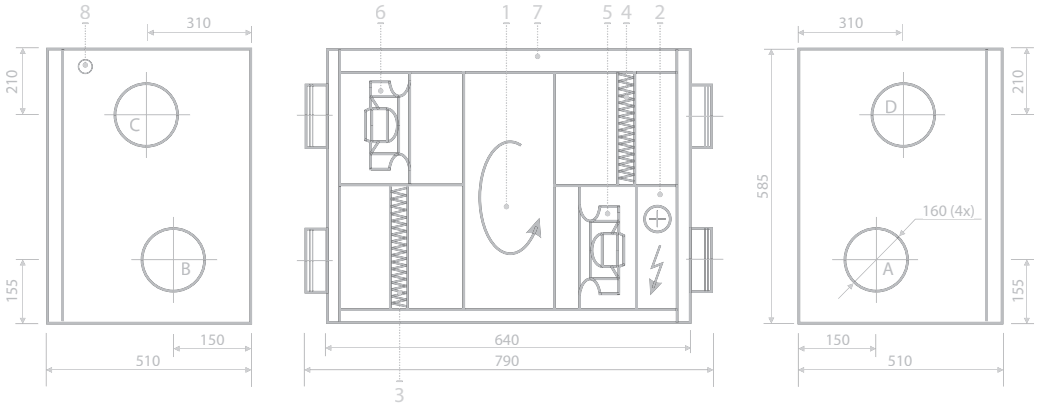
KOMPAKT REGO 400

UNIT'S SELECTION SAMPLE

Panel thickness	45 mm
Unit weight	48
Nominal air flow	400 m³/h
Supply voltage	1~ 230 V
Maximal operating current	6,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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. Main cable (L=1,5 m)

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. 73


p. 74


p. 75


p. 78


p. 80


p. 76


p. 82

To calculate SFP for AC motor use formula:
SFP = P/V; where P – kW and V – m^3/s.
To calculate the P for EC motor use formula:
P = SFP*V; where SFP – kW/(m^3/s) and V – m^3/s.

Fans Motors EC

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

Electric Air Heater

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	11,1	11,7	12,6	13,6	15	

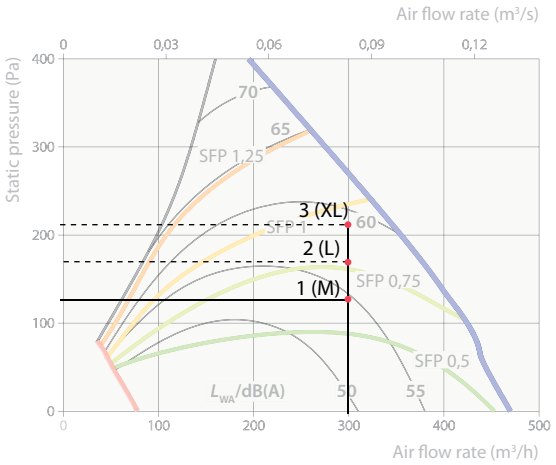
Acoustic Data

	k_{OCT}								k_{SUM}
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 400 HE									
Supply Inlet	9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

To calculate the sound power L_W/dB in 8 octave centres* and A-weighted** total sound power L_{WA}/dB(A) of all air duct openings of the unit (without influence of casing) also to calculate the sound pressure L_p, dB in 8 octave centers and A-weighted total sound pressure L_{pA}, dB(A) of the casing of the unit (without influence of openings) at the distance of 3 meters for environment of sound reflecting: floor (ceiling) and two near standing walls at the angle of 90 degrees to each other at the standard conditions***, **correction coefficients k_{OCT}**, dB and **k_{SUM}**, dB(A) **must be algebraically added** to the value of the closest acoustic curve of A-weighted* total sound power L_{WA}/dB(A) from the performance chart (usually of the exhaust outlet of the air handling unit) in the desired working point of the unit.

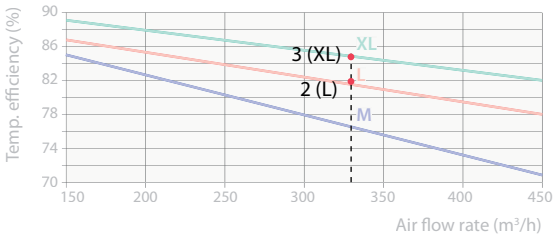
* 8 octave centers - frequencies of: 63, 125, 250, 500, 1000, 2000, 4000 and 8000 Hz,
** A-weighting: allowance for human's hearing sensitivity in various frequencies,
*** Standard conditions: atmospheric pressure of 101.3 kPa, temperature of 20°C and relative humidity of 50%.

Performance REGO 400-EC

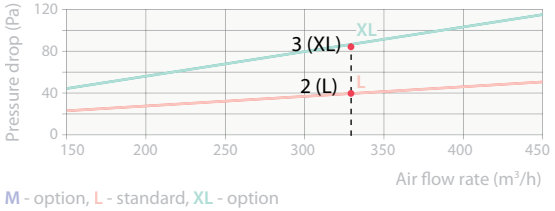


P[kW]= SFP[kW/(m^3/s)] · V[m^3/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for HW approximately 30 Pa at 400 m^3/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



M - option, L - standard, XL - option

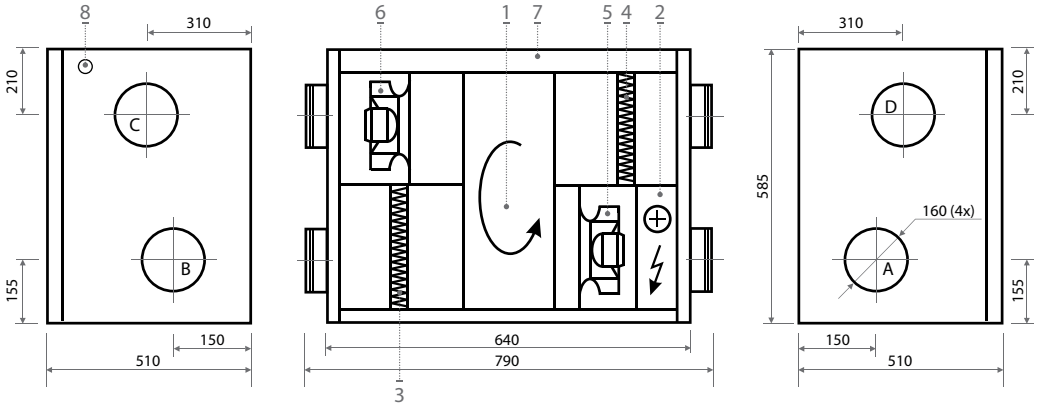
These charts are needed for unit performance evaluation for different efficiencies of rotary heat exchanger. Unit performance chart data presented for M type rotary heat exchanger and M5 class filter. As all KOMPAKT REGO units must correspond to high energy efficiency requirements, L type rotary heat 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 m^3/h and 120 Pa static pressures marked by point 1 in the performance chart. To check standard unit with L type rotary working zone, calculate actual power consumption and acoustic data, pressure drop for L type rotary must be evaluated in the performance graph: i.e. pressure drop of 40 Pa (data from the pressure graph, point 2) must be added to static pressure in point 1 to get performance point of unit. So, standard unit performance has parameters in point 2 (static pressure 160 Pa for 300 m^3/h, thermal efficiency 83,5%). The same actions must be done selecting unit with optional XL rotary efficiency to get 85,5% efficiency: find value in pressure drop graph; add this value in the performance graph to get point 3 and to see if unit performance is still in working zone. In case if working point is out of performance zone – bigger size unit must be selected for higher efficiency rotary heat exchanger.

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 C3

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. Main cable (L=1,5 m)

Shown as right

Shown as left

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

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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

* Option

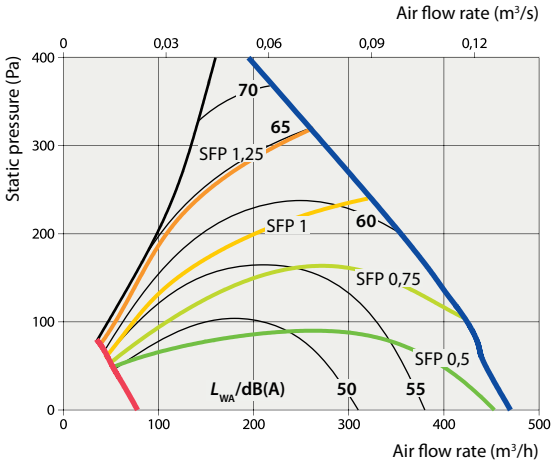
Temperature efficiency

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

Acoustic Data

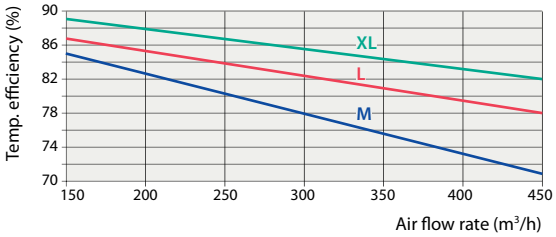
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 400 HE									
Supply Inlet	9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 400-EC

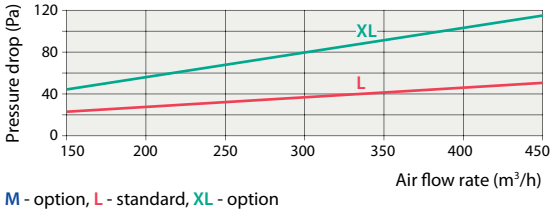


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for HW approximately 15 Pa at 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



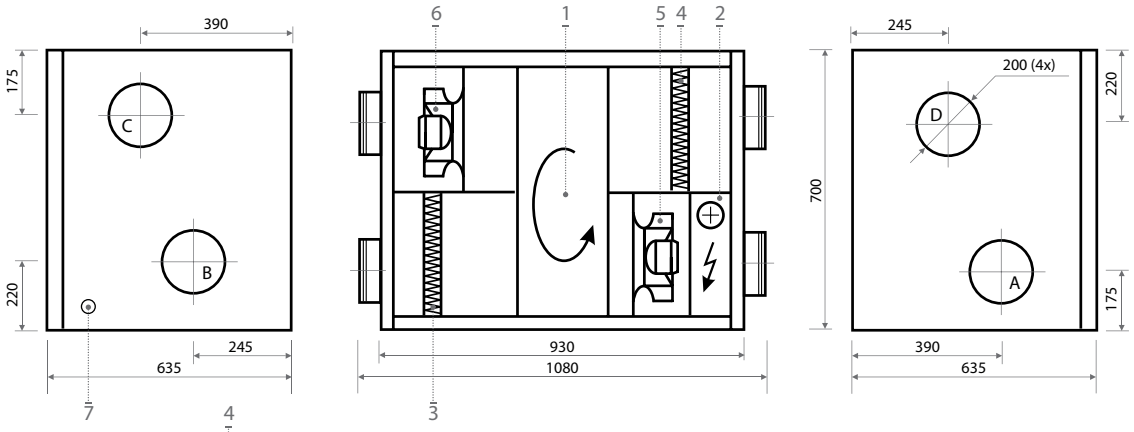
M - option, L - standard, XL - option

KOMPAKT REGO 500

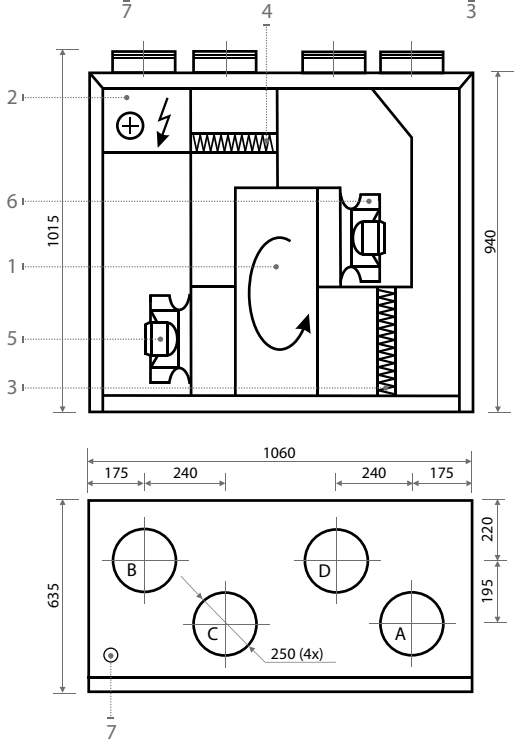
Panel thickness	45 mm
Unit weight V/H	140/90 kg
Nominal air flow	500 m³/h
Supply voltage	1~ 230 V
Maximal operating current EC/AC	6,9/5,8 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 500H



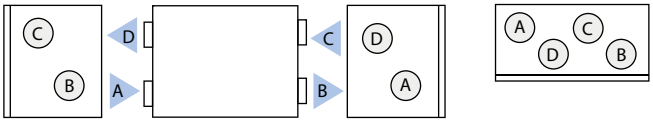
REGO 500V



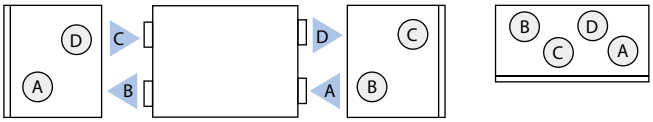
Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main cable (L=1,5 m)

Shown as right



Shown as left



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

Accessories

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Air Filters. Supply / Exhaust

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

Fans Motors EC/AC

Input power	155/139 W
Rotation speed	2940/2645 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater

Capacity	1 kW
Air temperature, Δt	6°C

* Option

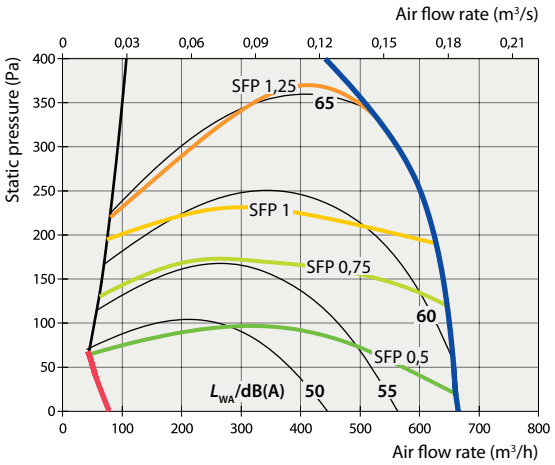
Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	12,3	12,7	13,5	14,5	15,5	

Acoustic Data

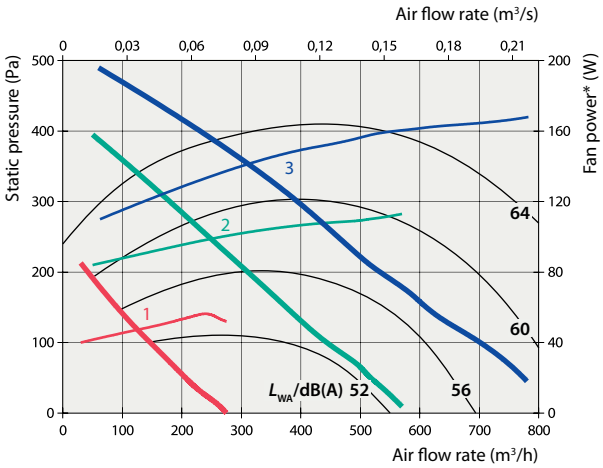
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 500 VE-EC									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 500 HE-EC									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 500 VE-AC									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 500 HE-AC									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 500-EC



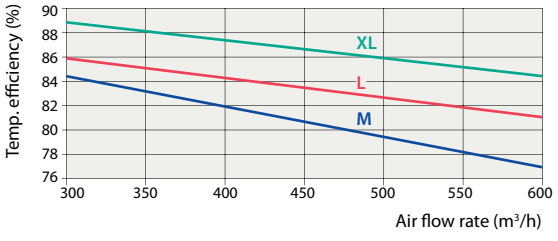
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 15 Pa at 500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance REGO 500-AC

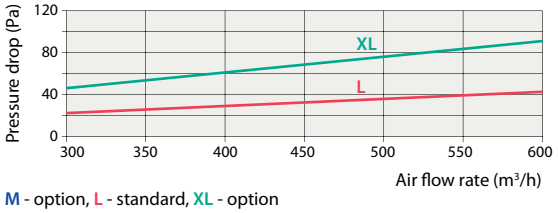


1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 15 Pa at 500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



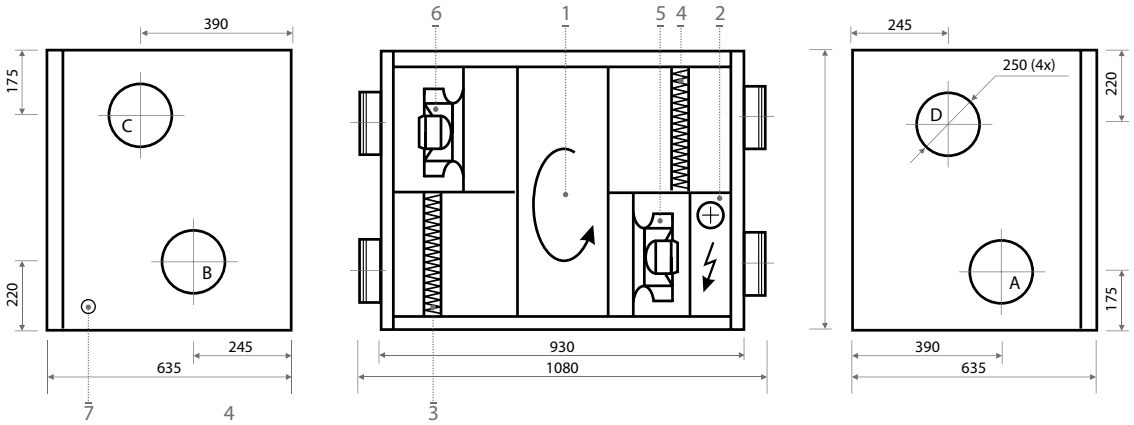
M - option, L - standard, XL - option

KOMPAKT REGO 700

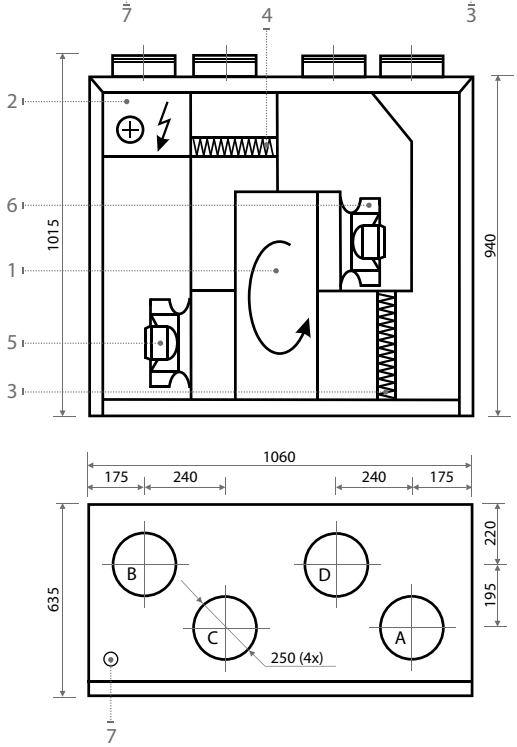
Panel thickness	45 mm
Unit weight V/H	140/90 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current EC/AC	11,5/10,8 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 700H



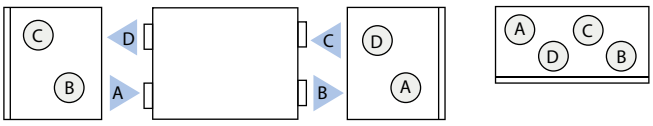
REGO 700V



Design

1. Rotary heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main cable (L=1,5 m)

Shown as right



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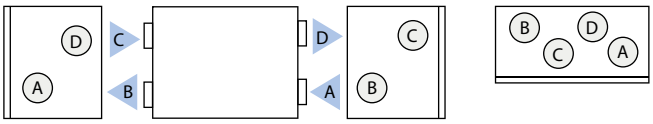

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories

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Air Filters. Supply / Exhaust

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

Fans Motors EC/AC

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

Electric Air Heater

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

* Option

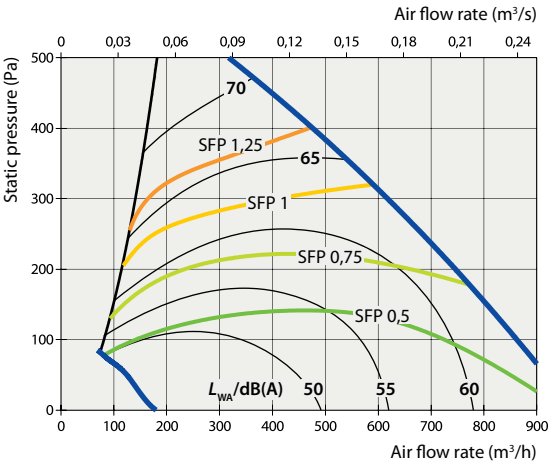
Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	9,6	11,5	12,2	13,3	14,6	

Acoustic Data

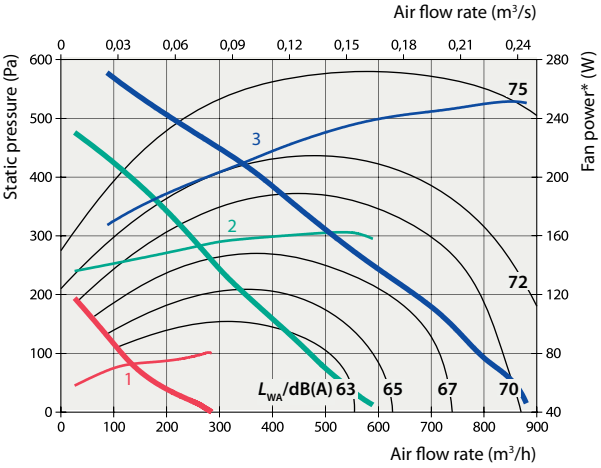
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 700 VE-EC									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 700 HE-EC									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 700 VE-AC									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
REGO 700 HE-AC									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance REGO 700-EC



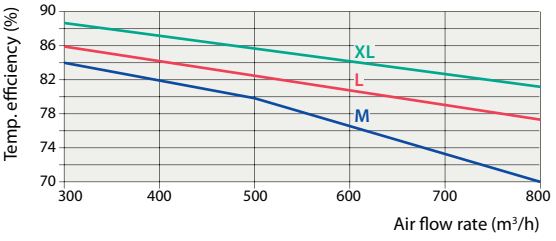
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 15 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance REGO 700-AC

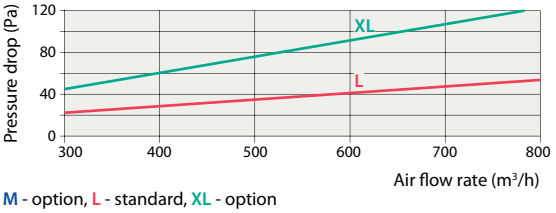


1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 15 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



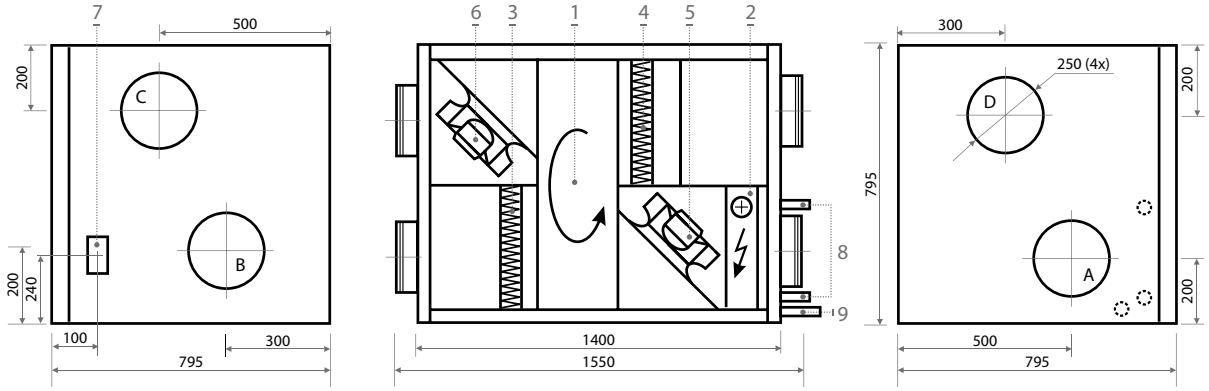
M - option, L - standard, XL - option

KOMPAKT REGO 900

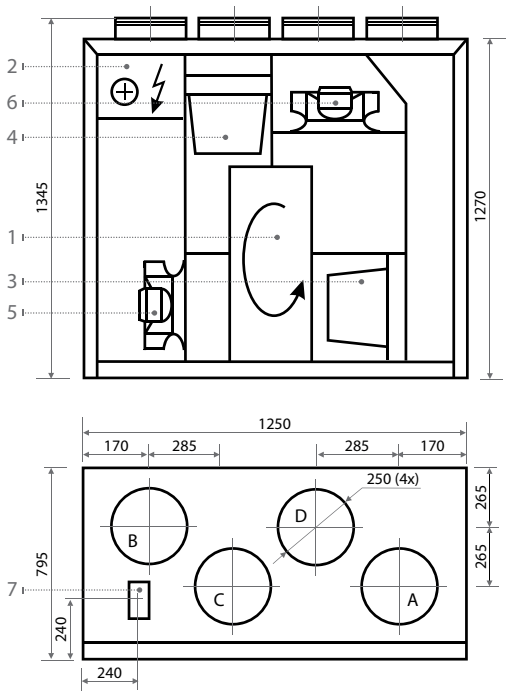
Panel thickness	45 mm
Unit weight V/H	175/165 kg
Nominal air flow	900 m^3/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current EC/AC (E)	10,2/6,6 A
Maximal operating current EC/AC (HW)	6,1/2,75 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 900H



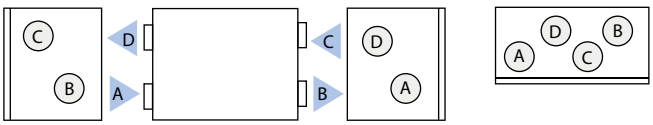
REGO 900V



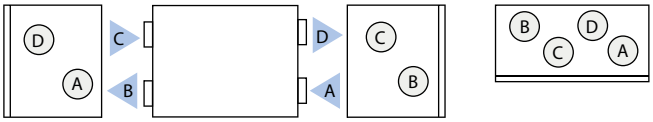
Design

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. Main switch
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



Shown as left



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

Accessories

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Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Panel/Bag filter
Dimensions for horizontal units bxhxl	700x325x96 mm
Dimensions for vertical units bxhxl	592x287x360 mm

Fans Motors EC/AC

Input power	395/310 W
Rotation speed	2400/2725 rpm
Protection level, IEC 34-5	IP 44/54

Electric Air Heater

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	11	12,3	13,2	14,2	15,2	

Changeover air to water heat exchanger, HW

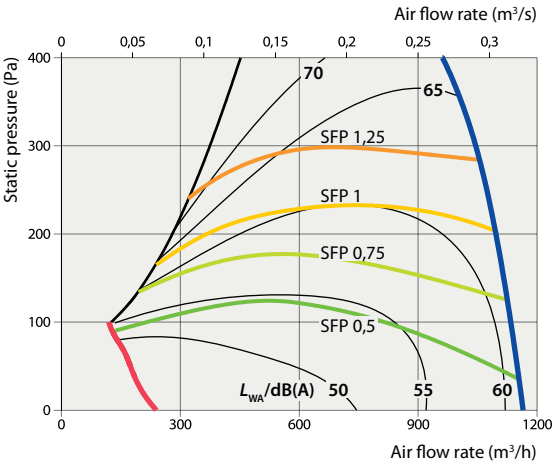
	Winter				Summer
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12
Capacity, kW	2,95	2,95	2,95	2,95	3,83
Flow rate, dm³/h	144	144	144	252	658
Pressure drop, kPa	0,5	0,5	0,5	1	3
Connection, ”	1/2				
Temperature in/RH–out/RH, °C/%	11–20	11–20	11–20	7–22,5	30/50–18/80

In HW units water heater is integrated, for VW use duct heater DH

Acoustic Data

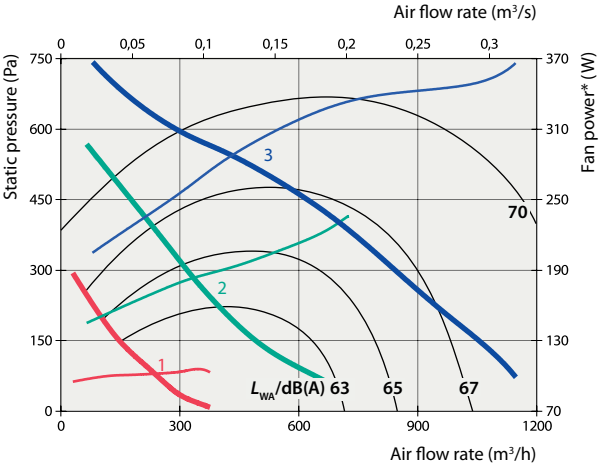
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 900 V-EC									
Supply Inlet	-11	-9	-9	-9	-13	-17	-22	-26	-7,7
Supply Outlet	-9	-5	-5	-4	-7	-13	-16	-20	-2,4
Exhaust Inlet	-12	-12	-13	-12	-14	-19	-23	-28	-9,9
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
REGO 900 H-EC									
Supply Inlet	-10	-7	-6	-6	-11	-16	-20	-25	-5,3
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-19	-0,1
Exhaust Inlet	-10	-7	-6	-6	-11	-16	-20	-25	-5,3
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
REGO 900 V-AC									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-13	-13	-15	-13	-16	-22	-27	-32	-12,0
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
REGO 900 H-AC									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance REGO 900-EC



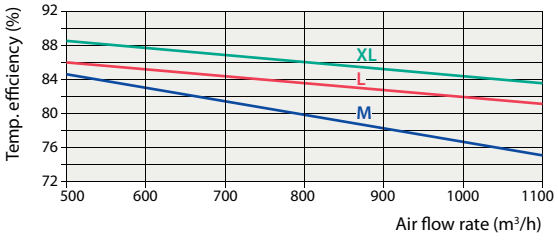
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance REGO 900-AC

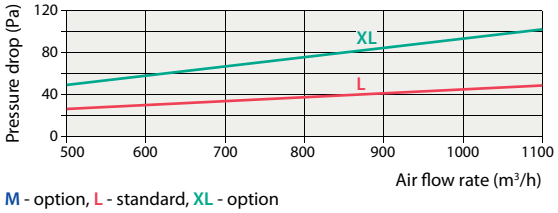


1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



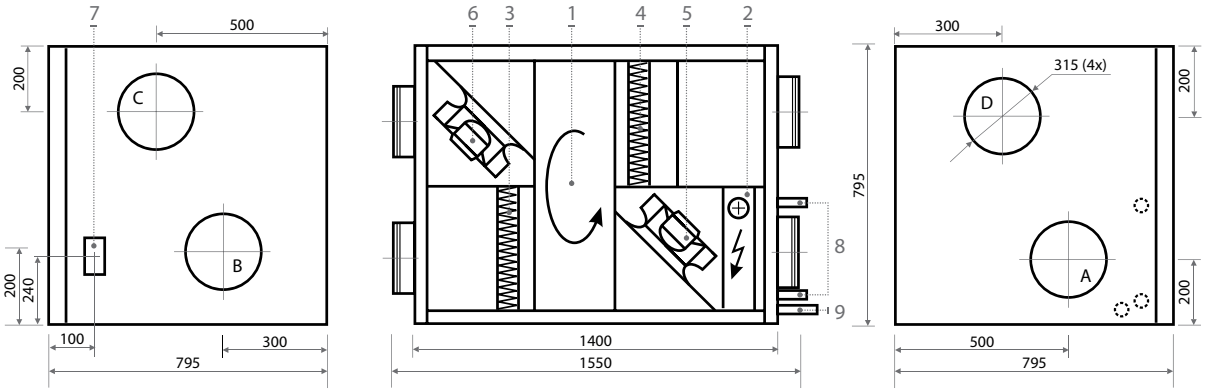
M - option, L - standard, XL - option

KOMPAKT REGO 1200

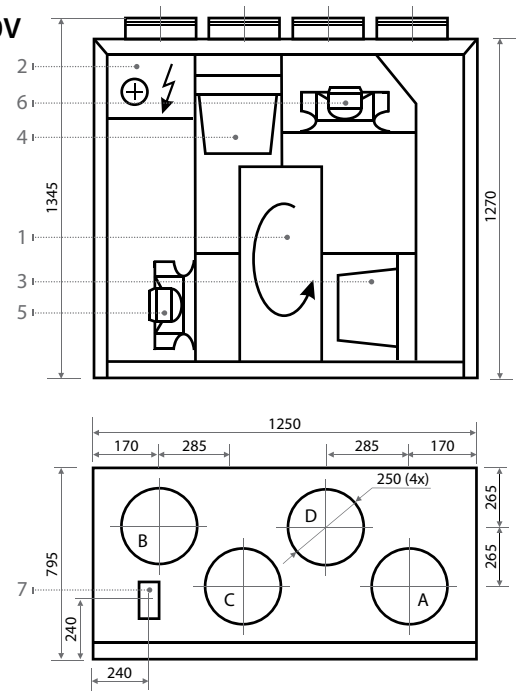
Panel thickness	45 mm
Unit weight V/H	180/170 kg
Nominal air flow	1200 m^3/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	12,3 A
Maximal operating current (HW)	6,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 1200H



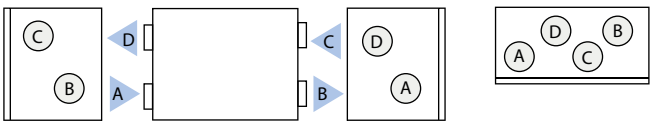
REGO 1200V



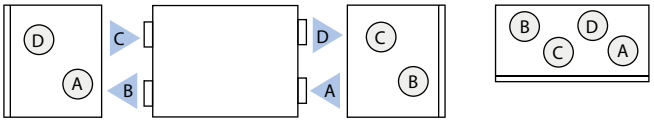
Design

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. Main switch
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



Shown as left



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

Accessories

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Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Panel/Bag filter
Dimensions for horizontal units bxhxl	700x325x96 mm
Dimensions for vertical units bxhxl	592x287x360 mm

Fans Motors EC

Input power	405 W
Rotation speed	2725 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater

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	9,3	11	12,1	13,2	14,5	

Changeover air to water heat exchanger, HW

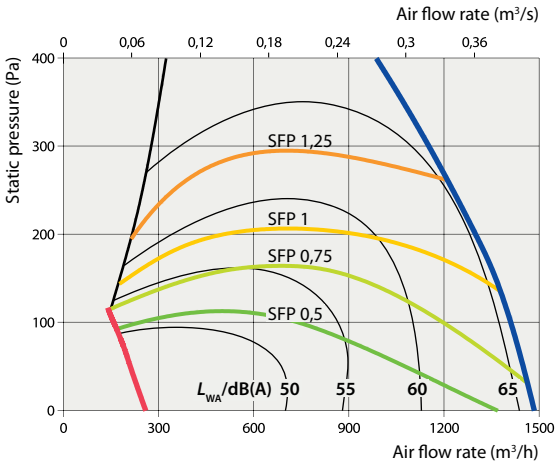
	Winter				Summer
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12
Capacity, kW	4,69	4,69	4,69	4,69	6,03
Flow rate, dm³/h	216	216	216	396	1433
Pressure drop, kPa	1	1	1	2	17
Connection, ”			1/2		
Temperature in/RH–out/RH, °C/%	9,3–20	9,3–20	9,3–20	9,3–20	30/50–18/80

In HW units water heater is integrated, for VW use duct heater DH

Acoustic Data

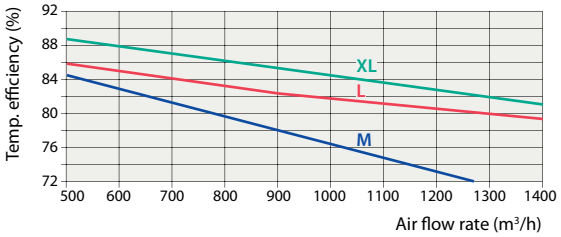
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 1200 V									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 1200 H									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 1200-EC

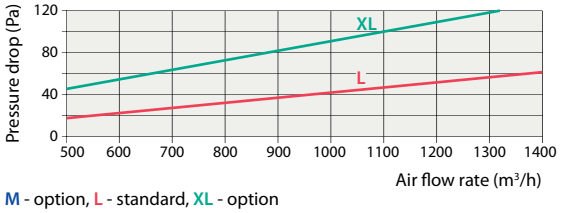


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 30 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



M - option, L - standard, XL - option

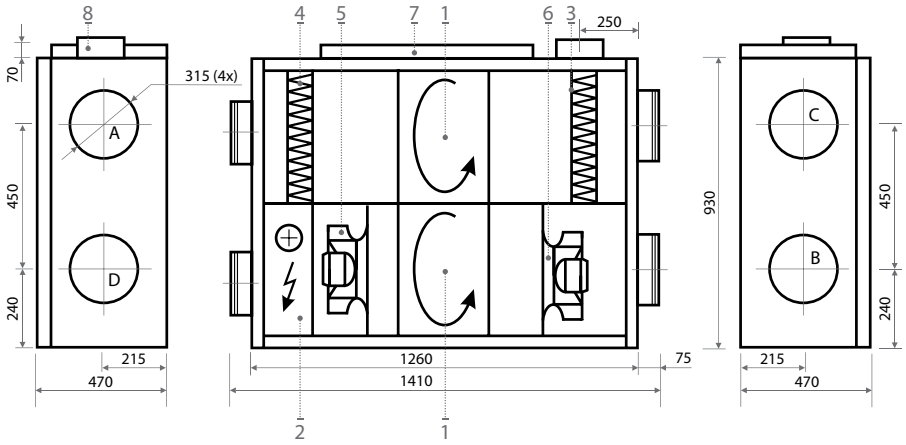
KOMPAKT REGO 1200

Panel thickness	45 mm
Unit weight	120 kg
Nominal air flow	1200 m³/h
Supply voltage	3~ 400 V
Maximal operating current	8,7 A
Paint color	RAL 9010
Control system	KOMFOVENT C3

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

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

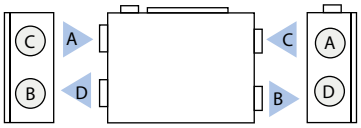
REGO 1200PE



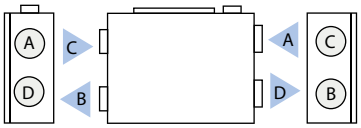
Design

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. Main switch

Shown as right



Shown as left



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

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC

Input power	405 W
Rotation speed	2725 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater

Capacity	4 kW
Air temperature, Δt	10°C

* Option

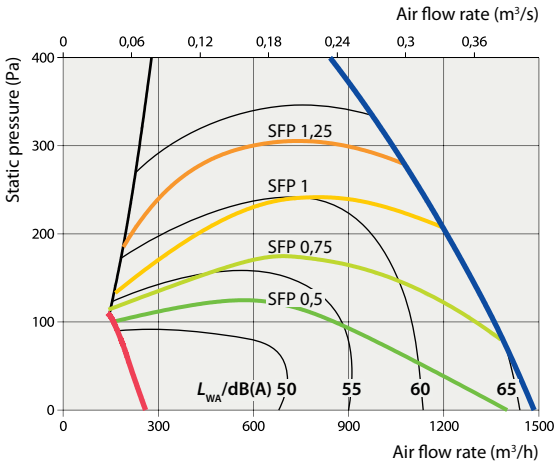
Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	7,7	9	10,5	12	13,3	

Acoustic Data

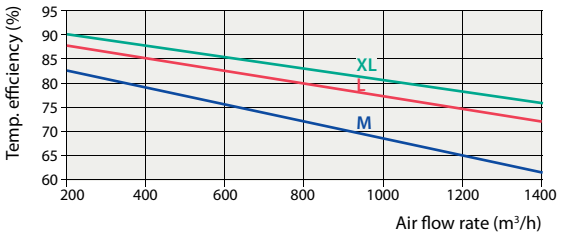
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 1200 PE									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 1200PE-EC

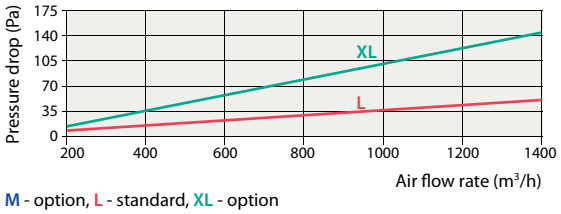


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for PW approximately 30 Pa at 1200 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



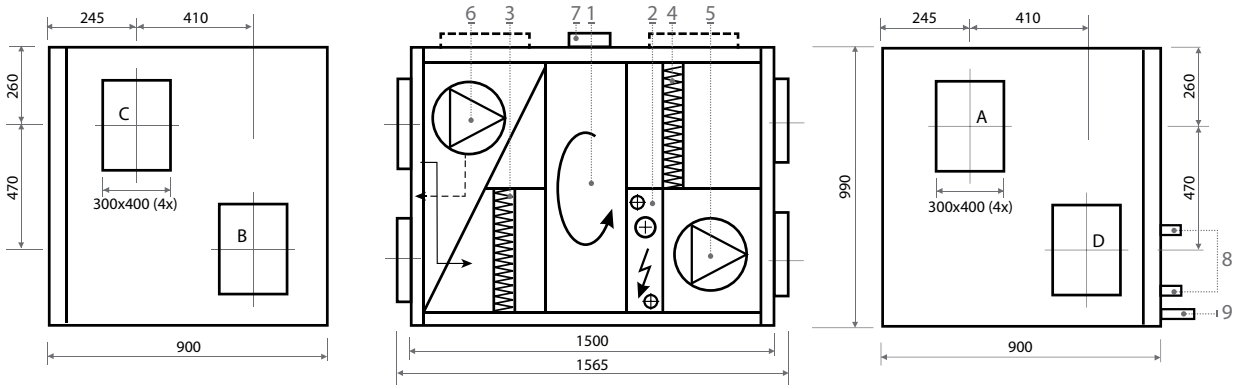
M - option, L - standard, XL - option

KOMPAKT REGO 1600

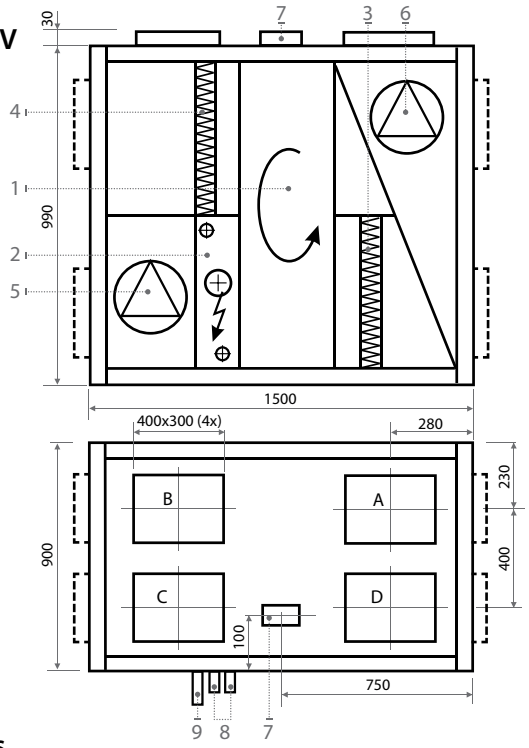
Panel thickness	45 mm
Unit weight	270 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	12,4 A
Maximal operating current (W)	6,4 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 1600H



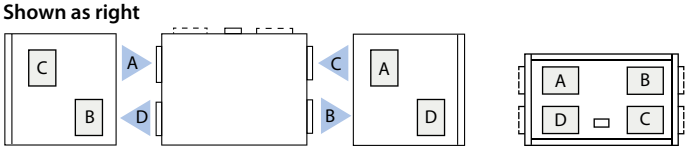
REGO 1600V



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. Main switch
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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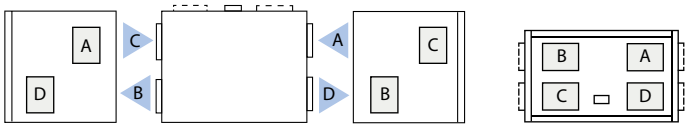

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories

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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	9,4	11,4	12,2	13,3	14,5	

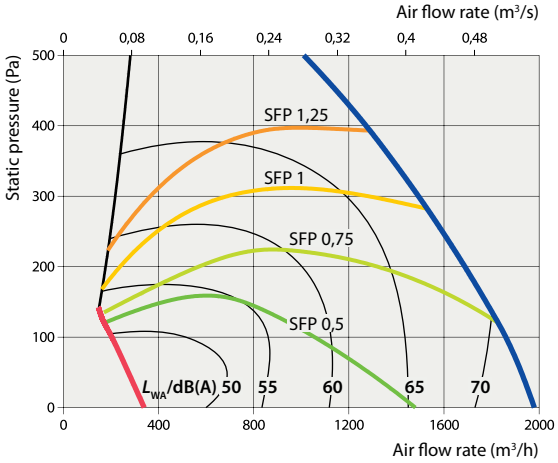
Changeover air to water heat exchanger, HW

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	7/12
Capacity, kW	8,4	8,5	8,5	8,57	10,97	9,56
Flow rate, dm³/h	371	373	370	744	1883	1640
Pressure drop, kPa	0,2	0,2	0,3	1	5,6	4,4
Connection, ”				1		
Temperature in/RH–out/RH, °C/%	7–22,2	7–22,4	7–22,4	7–22,5	30/50–17,7/82	26/70-17,6/89

Acoustic Data

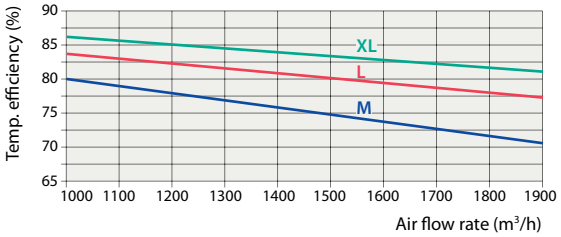
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 1600 VE									
Supply Inlet	-12	-12	-13	-12	-14	-19	-24	-28	-10,0
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Exhaust Inlet	-12	-12	-13	-12	-14	-19	-23	-28	-9,9
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
REGO 1600 HE									
Supply Inlet	-12	-12	-13	-12	-14	-19	-24	-28	-10,0
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Exhaust Inlet	-10	-7	-6	-6	-11	-16	-20	-25	-5,3
Exhaust Outlet	-9	-5	-5	-4	-7	-12	-16	-19	-2,3
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
REGO 1600 VW									
Supply Inlet	-12	-12	-13	-12	-14	-19	-24	-28	-10,0
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Exhaust Inlet	-12	-12	-13	-12	-14	-19	-23	-28	-9,9
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
REGO 1600 HW									
Supply Inlet	-12	-12	-13	-12	-14	-19	-24	-28	-10,0
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Exhaust Inlet	-10	-7	-6	-6	-11	-16	-20	-25	-5,3
Exhaust Outlet	-9	-5	-5	-4	-7	-12	-16	-19	-2,3
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1

Performance REGO 1600-EC

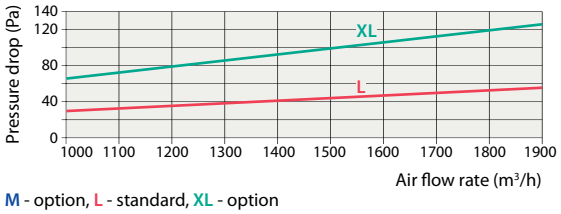


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 30 Pa at 1600 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



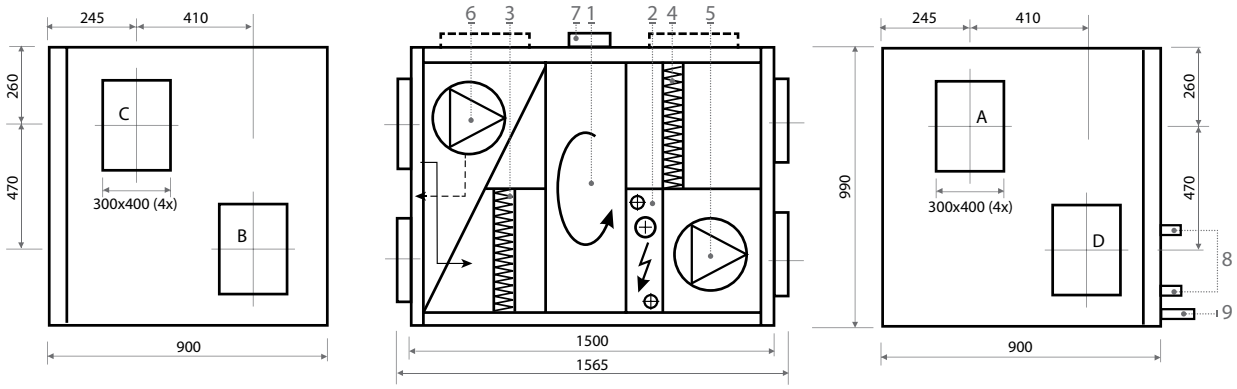
M - option, L - standard, XL - option

KOMPAKT REGO 2000

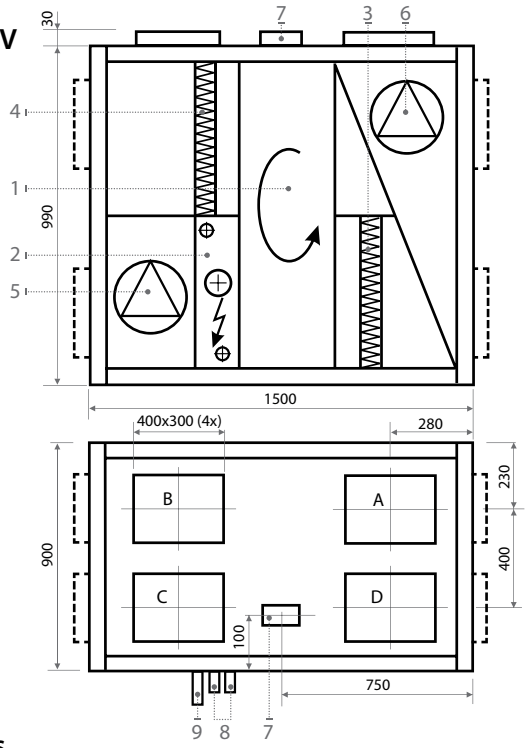
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2000 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	17,4 A
Maximal operating current (W)	7,0 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 2000H



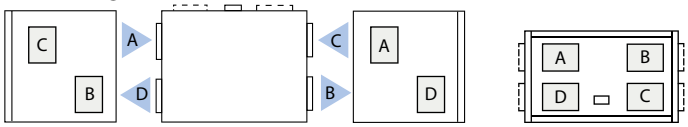
REGO 2000V



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. Main switch
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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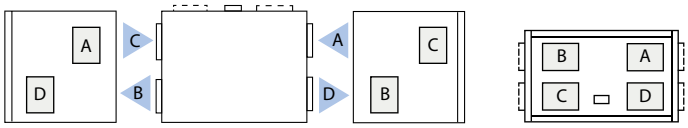

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories


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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	8,2	9,9	11,1	12,4	13,8	

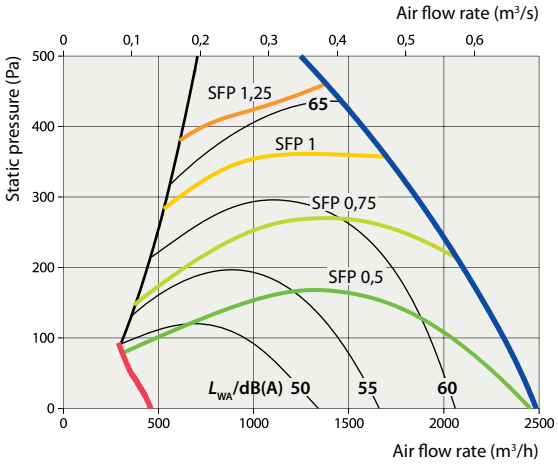
Changeover air to water heat exchanger, HW

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	7/12
Capacity, kW	10,85	10,49	10,61	10,53	12,81	11,12
Flow rate, dm³/h	479	461	463	914	2199	1908
Pressure drop, kPa	0,4	0,4	0,4	1,3	7,4	5,7
Connection, ”	1					
Temperature in/RH–out/RH, °C/%	7-22,7	7-22,2	7-22,4	7-22,3	30/50-18,5/80	26/70-18,2/88

Acoustic Data

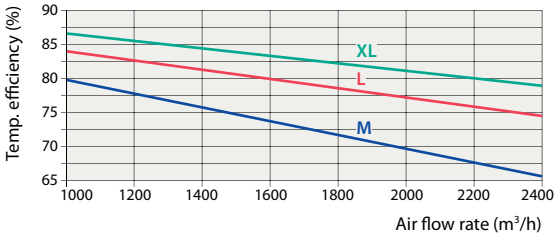
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 2000 VE									
Supply Inlet	-11	-11	-12	-11	-13	-18	-22	-26	-9,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2000 HE									
Supply Inlet	-11	-11	-12	-11	-13	-18	-22	-26	-9,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2000 VW									
Supply Inlet	-12	-11	-13	-12	-14	-19	-23	-28	-10,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2000 HW									
Supply Inlet	-12	-11	-13	-12	-14	-19	-23	-28	-10,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 2000-EC

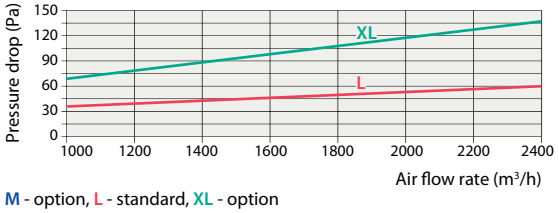


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 30 Pa at 2000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



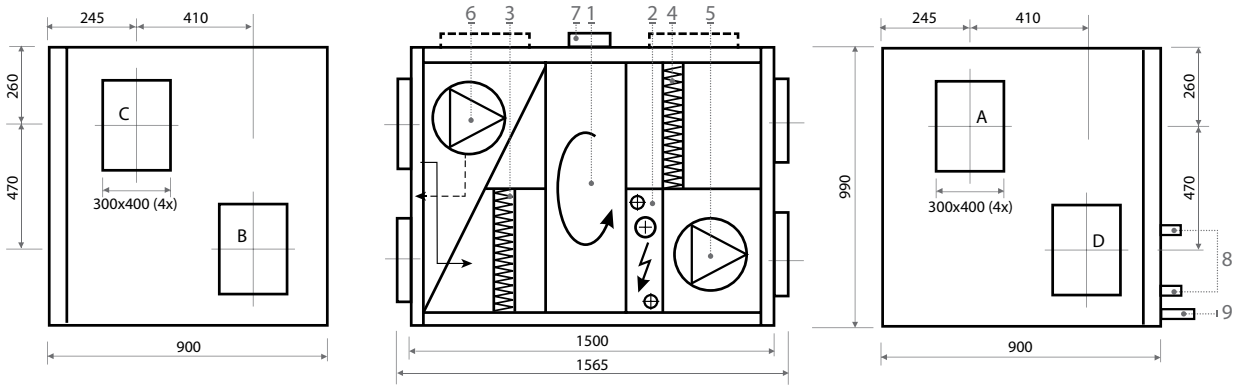
M - option, L - standard, XL - option

KOMPAKT REGO 2500

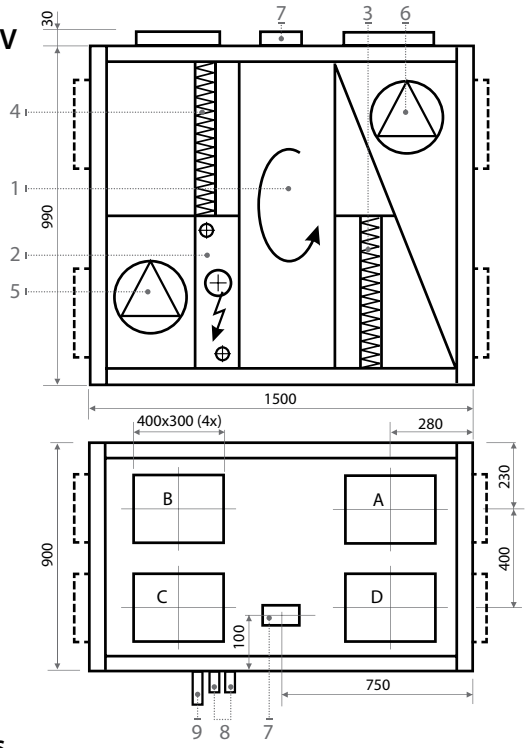
Panel thickness	45 mm
Unit weight	285 kg
Nominal air flow	2500 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	17,1 A
Maximal operating current (W)	6,71 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 2500H



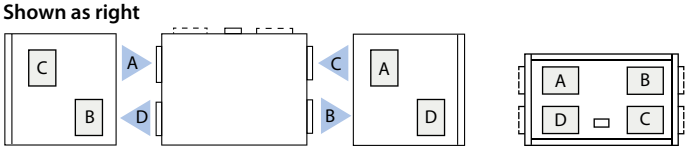
REGO 2500V



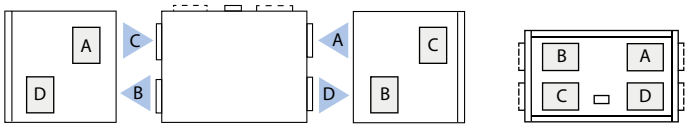
Design

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. Main switch
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. 73 p. 75 p. 78 p. 80 p. 76 p. 79 p. 82

Air Filters. Supply / Exhaust

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

Fans Motors EC

Input power	635 W
Rotation speed	2800 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater

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	7	8,5	10	11,5	13	

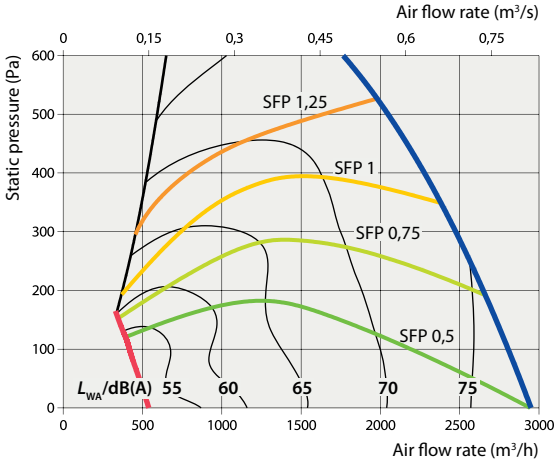
Changeover air to water heat exchanger, HW

	Winter				Summer	
Water temperature in/out, °C	90/70	80/60	60/40	45/35	7/12	7/12
Capacity, kW	12,96	13	12,9	12,99	14,86	12,84
Flow rate, dm³/h	572	571	562	1128	2551	2204
Pressure drop, kPa	0,5	0,5	0,5	1,9	9,6	7,4
Connection, ”	1					
Temperature in/RH–out/RH, °C/%	7-22	7-22,1	7-22	7-22,1	30/50-19,3/77	26/70-18,8/87

Acoustic Data

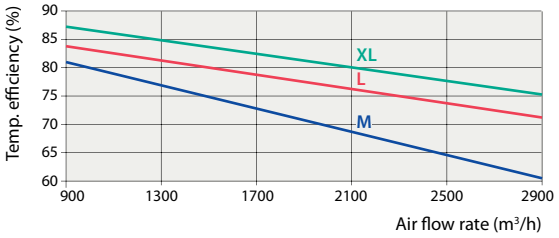
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 2500 VE									
Supply Inlet	-11	-11	-12	-11	-13	-18	-22	-26	-9,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2500 HE									
Supply Inlet	-11	-11	-12	-11	-13	-18	-22	-26	-9,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2500 VW									
Supply Inlet	-12	-11	-13	-12	-14	-19	-23	-28	-10,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-11	-11	-12	-11	-13	-17	-21	-25	-8,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
REGO 2500 HW									
Supply Inlet	-12	-11	-13	-12	-14	-19	-23	-28	-10,0
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance REGO 2500-EC

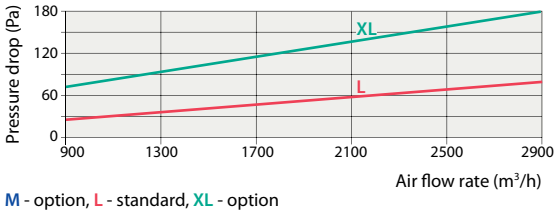


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 35 Pa at 2500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



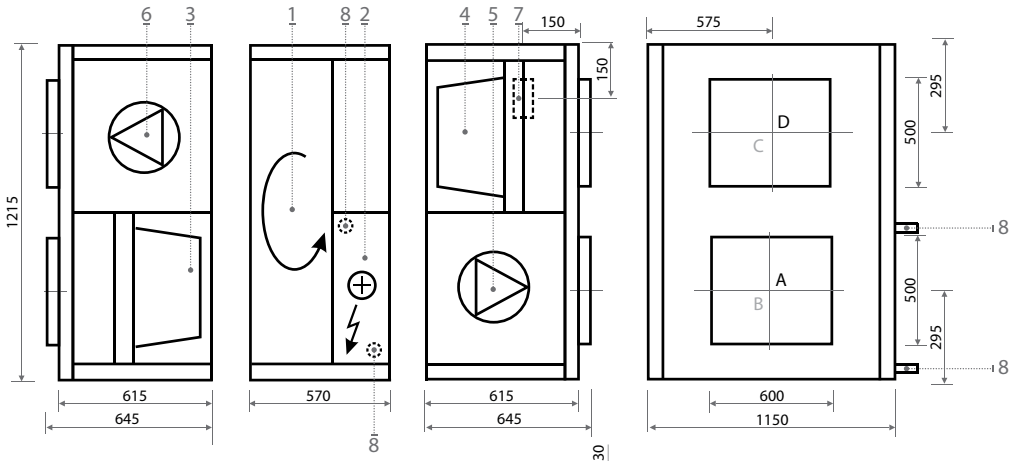
M - option, L - standard, XL - option

KOMPAKT REGO 3000

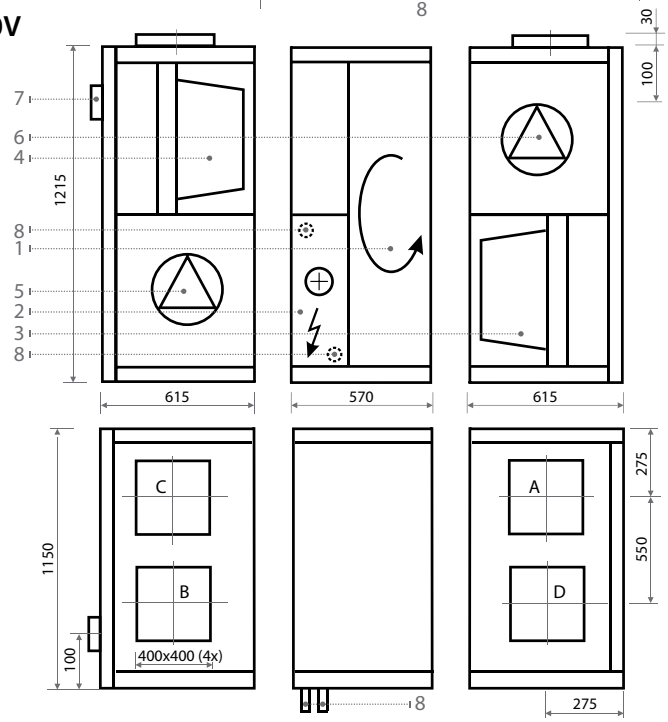
Panel thickness	45 mm
Unit weight	440 (140/160/140) kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	16,8 A
Maximal operating current (W)	4,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 3000H



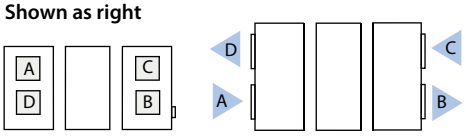
REGO 3000V



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. Main switch
8. Fluid connection tube only for W

Shown as right



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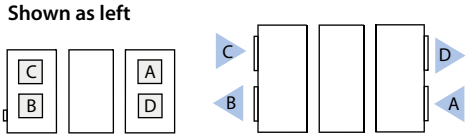


A Outdoor intake **C** Extract indoor
B Supply air **D** Exhaust air

Accessories


p. 73


p. 75


p. 78


p. 80


p. 76


p. 79


p. 82

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	892x490x300 mm

Fans Motors EC

Input power	990 W
Rotation speed	2580 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater

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	9,3	11,1	12,1	13,3	14,5	

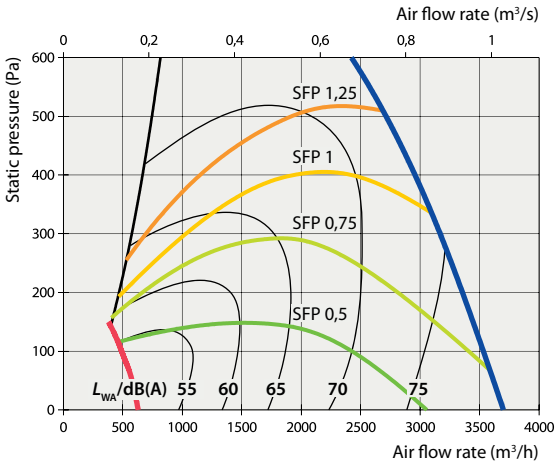
Air to water heat exchanger, HW

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	15,3	12,9	10,5
Flow rate, dm³/h	673	565	458
Pressure drop, kPa	8	6	4
Connection, ”		1/2	
Temperature in–out, °C	9/24,1	9/21,8	9/20

Acoustic Data

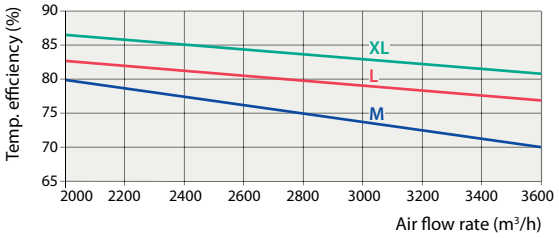
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 3000 VE									
Supply Inlet	-13	-12	-14	-13	-15	-21	-26	-31	-11,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-13	-12	-14	-13	-15	-20	-25	-30	-11,0
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 3000 HE									
Supply Inlet	-10	-7	-6	-6	-12	-18	-23	-28	-5,9
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-10	-7	-6	-6	-12	-17	-22	-27	-5,8
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 3000 VW									
Supply Inlet	-13	-13	-15	-14	-17	-22	-27	-33	-12,3
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-13	-12	-14	-13	-15	-20	-25	-30	-11,0
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 3000 HW									
Supply Inlet	-11	-8	-7	-7	-13	-19	-24	-30	-7,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-10	-7	-6	-6	-12	-17	-22	-27	-5,8
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4

Performance REGO 3000-EC

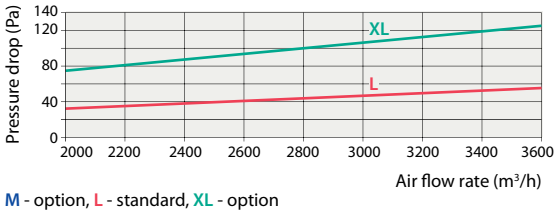


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 15 Pa at 3000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



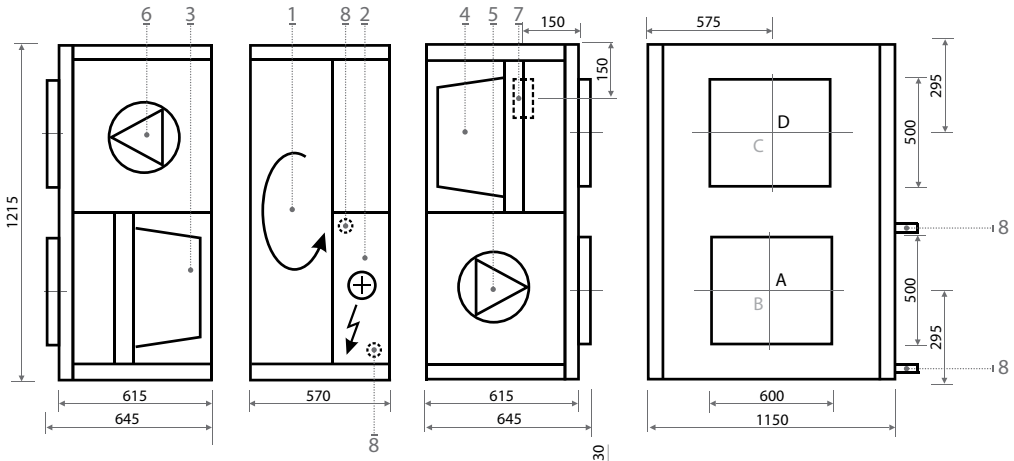
M - option, L - standard, XL - option

KOMPAKT REGO 4000

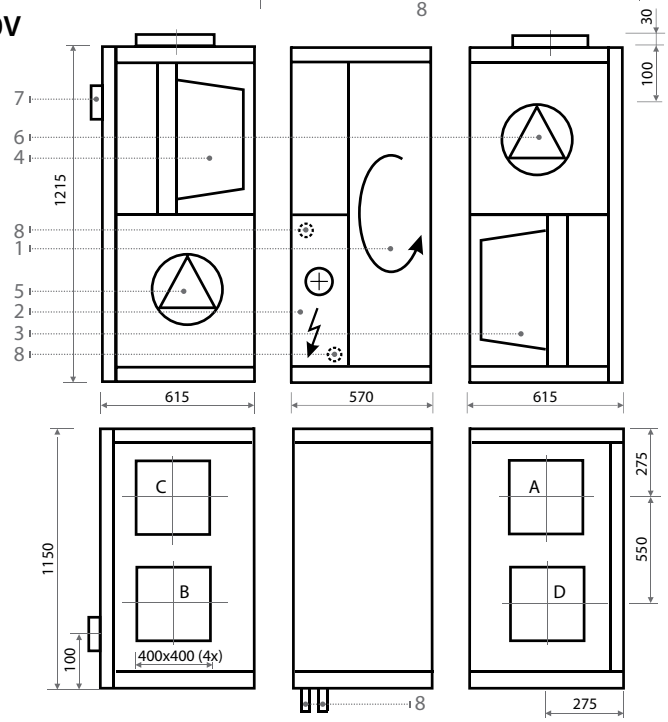
Panel thickness	45 mm
Unit weight	450 (145/160/145) kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	25,5 A
Maximal operating current (W)	4,2 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 4000H



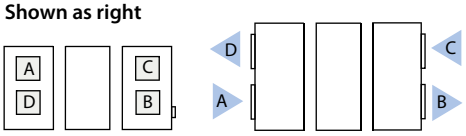
REGO 4000V



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. Main switch
8. Fluid connection tube only for W

Shown as right



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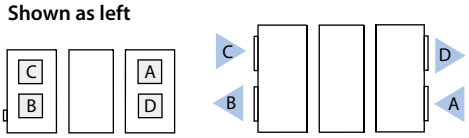


A Outdoor intake **C** Extract indoor
B Supply air **D** Exhaust air

Accessories

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	892x490x300 mm

Fans Motors EC

Input power	1000 W
Rotation speed	2140 rpm
Protection level, IEC 34-5	IP 54

Electric Air Heater

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	9,2	11,2	12,5	13,7	15,0	

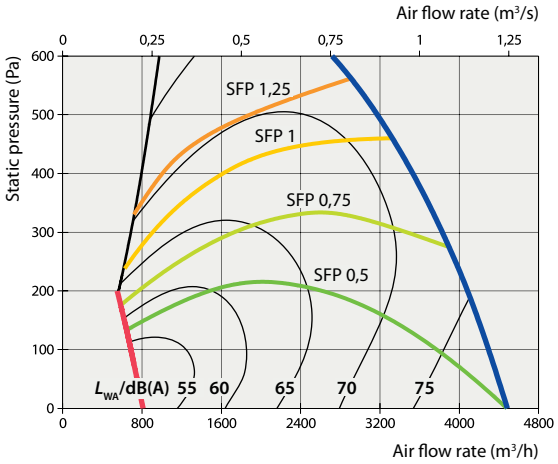
Air to water heat exchanger, HW

Water temperature in/out, °C	90/70	80/60	70/50
Capacity, kW	31,1	26,3	21,6
Flow rate, dm³/h	1370	1156	944
Pressure drop, kPa	7,5	5,7	4
Connection, ”		1/2	
Temperature in–out, °C	7,2/30	7,2/26,6	7,2/23,1

Acoustic Data

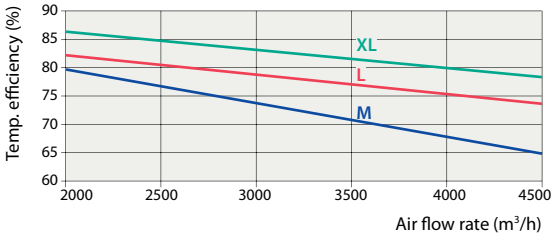
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 4000 VE									
Supply Inlet	-13	-12	-14	-13	-15	-21	-26	-31	-11,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-13	-12	-14	-13	-15	-20	-25	-30	-11,0
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 4000 HE									
Supply Inlet	-10	-7	-6	-6	-12	-18	-23	-28	-5,9
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-10	-7	-6	-6	-12	-17	-22	-27	-5,8
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 4000 VW									
Supply Inlet	-13	-13	-15	-14	-17	-22	-27	-33	-12,3
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-13	-12	-14	-13	-15	-20	-25	-30	-11,0
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4
REGO 4000 HW									
Supply Inlet	-11	-8	-7	-7	-13	-19	-24	-30	-7,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Exhaust Inlet	-10	-7	-6	-6	-12	-17	-22	-27	-5,8
Exhaust Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4

Performance REGO 4000-EC

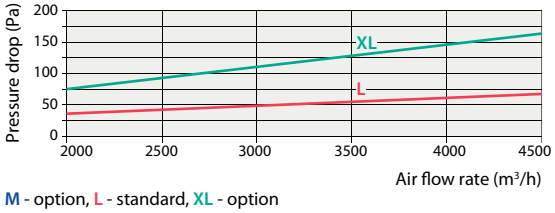


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for H/VW approximately 20 Pa at 4000 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



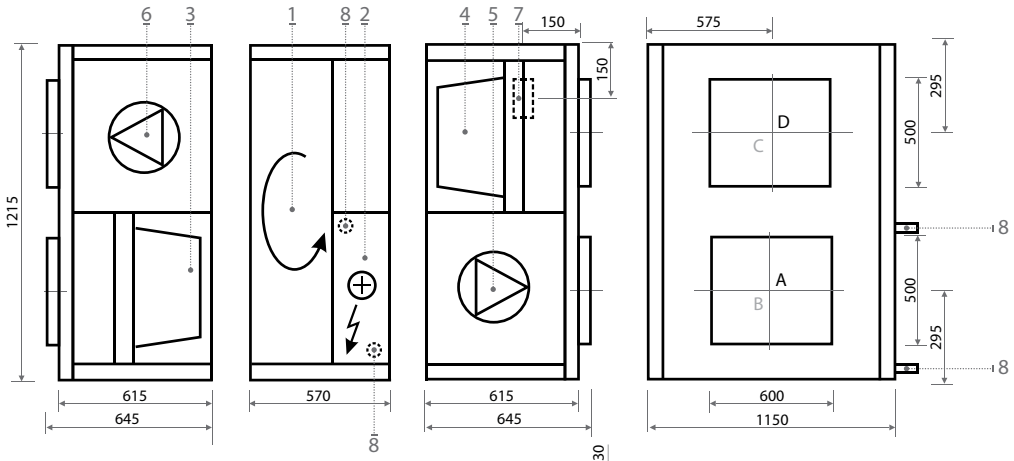
M - option, L - standard, XL - option

KOMPAKT REGO 4500

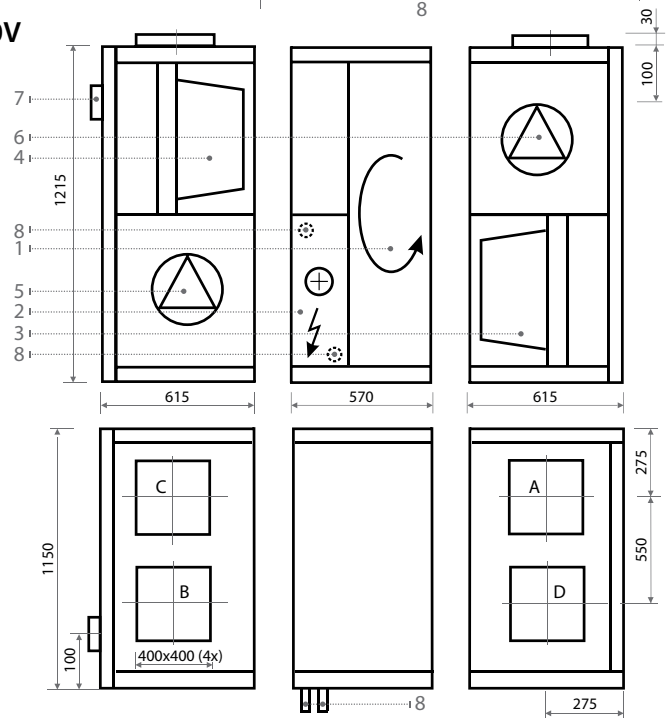
Panel thickness	45 mm
Unit weight	450 (145/160/145) kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	27,3 A
Maximal operating current (W)	6,0 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

REGO 4500H



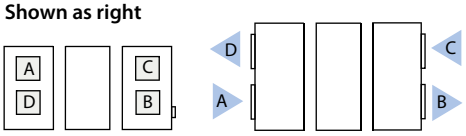
REGO 4500V



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. Main switch
8. Fluid connection tube only for W

Shown as right



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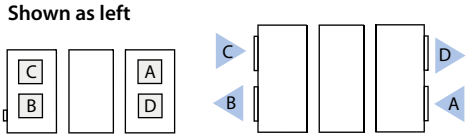


A Outdoor intake **C** Extract indoor
B Supply air **D** Exhaust air

Accessories

Air Filters. Supply / Exhaust

Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	892x490x300 mm

Fans Motors EC

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

Electric Air Heater

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	9,2	11	12,3	13,5	14,7	

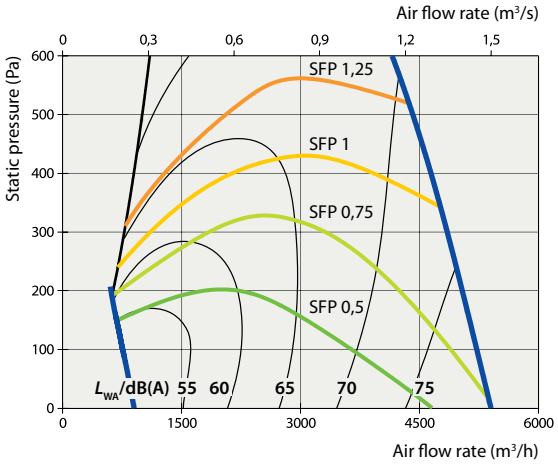
Air to water heat exchanger, HW

Water temperature in/out, °C	90/70	80/60	70/50	60/40
Capacity, kW	37,1	31,5	25,9	20,3
Flow rate, dm³/h	1648	1391	1136	884
Pressure drop, kPa	12,5	9,5	7,5	5,8
Connection, ”		1		
Temperature in–out, °C	6,3/31	6,3/27	6,3/24	6,3/20

Acoustic Data

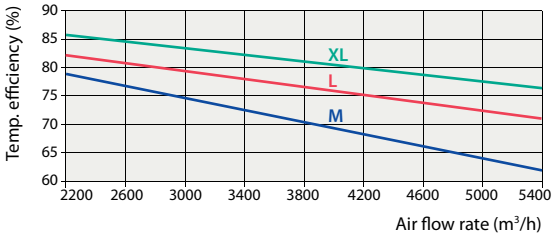
	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 4500 VE									
Supply Inlet	-13	-13	-15	-13	-16	-22	-27	-33	-12,1
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Exhaust Inlet	-13	-13	-15	-13	-16	-22	-27	-32	-12,0
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
REGO 4500 HE									
Supply Inlet	-11	-8	-6	-6	-12	-19	-24	-30	-6,3
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
REGO 4500 VW									
Supply Inlet	-14	-14	-16	-15	-18	-23	-29	-36	-13,5
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Exhaust Inlet	-13	-13	-15	-13	-16	-22	-27	-32	-12,0
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
REGO 4500 HW									
Supply Inlet	-12	-8	-7	-8	-14	-20	-26	-33	-7,7
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance REGO 4500-EC

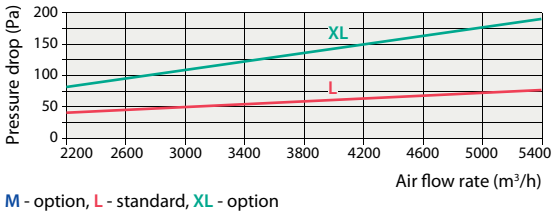


P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5, rotary heat exchanger – M. Correction factor for HW approximately 25 Pa at 4500 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency



Pressure drop



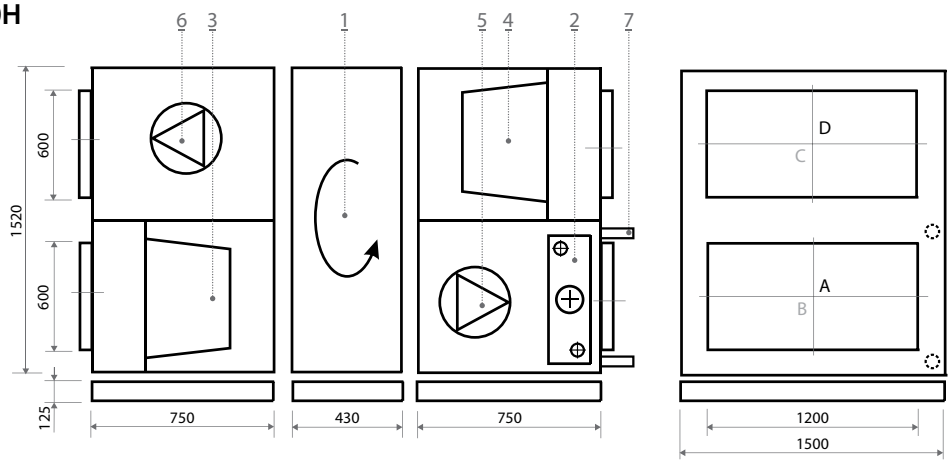
M - option, L - standard, XL - option

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 C3

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

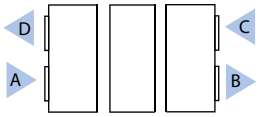
REGO 7000H



Design

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

Shown as right



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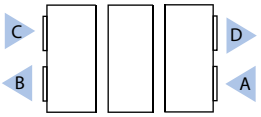

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories


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Air Filters. Supply / Exhaust

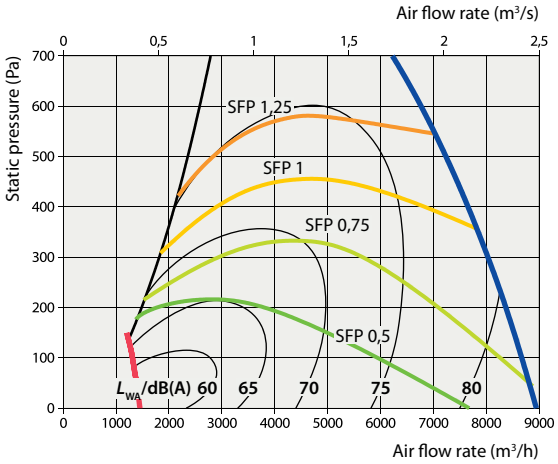
Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592-12x635 mm
Quantity	2 pcs.

Fans Motors EC

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

* Option

Performance REGO 7000-EC



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

Temperature efficiency

	Supply					Exhaust
Intake temperature, °C	-23	-15	-10	-5	0	20
Supply temperature, °C	9	10	11,3	12,6	14	

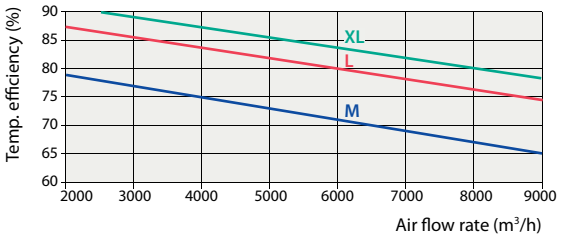
Air to water heat exchanger, HW

Water temperature in/out, °C	80/60
Capacity, kW	28,8
Flow rate, dm³/h	1269
Pressure drop, kPa	14,58
Connection, ”	3/4
Temperature in–out, °C	9/21

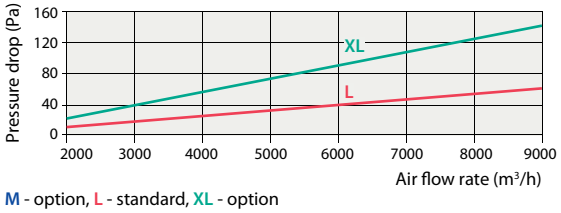
Acoustic Data

	63	125	250	500	1k	2k	4k	8k	dB(A)
REGO 7000 HW-EC									
Supply Inlet	-12	-8	-7	-8	-14	-20	-26	-33	-7,7
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Temperature efficiency



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 m³/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

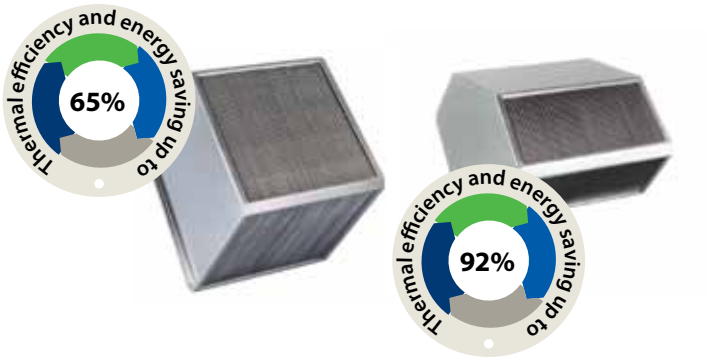
The supply and exhaust airflows are separated, thus making possible utilization of the heat of the extracted foul air.

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.



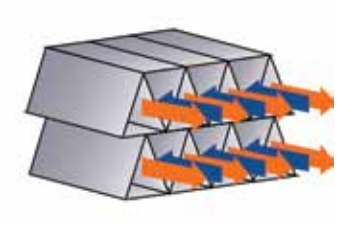


Plate heat exchangers

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 applied.

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

High efficiency plate heat exchanger

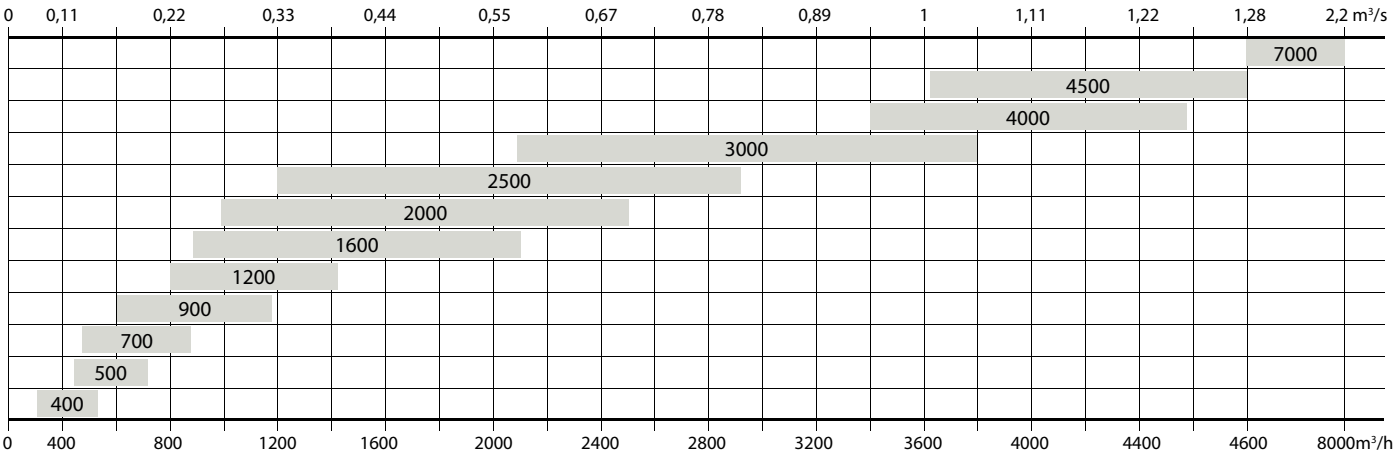
This type of exchanger is available for size 700 (page 46).
The exchanger is constructed completely from polystyrene – from the foils to the casing. Only solvent-free elastic adhesives are used.
Exchanger can be used for air temperatures between -30 and +50°C.

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

When outside air temperatures are very low, freezing may occur at the end of a recuperator's return-air duct if the temperature of the exhaust air drops below 0°C. 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.
Defrosting process lasts for maximum 5 minutes, after which the by-pass damper is closed and supply air will again flow through the exchanger.

Standard sizes of KOMFOVENT KOMPAKT RECU units

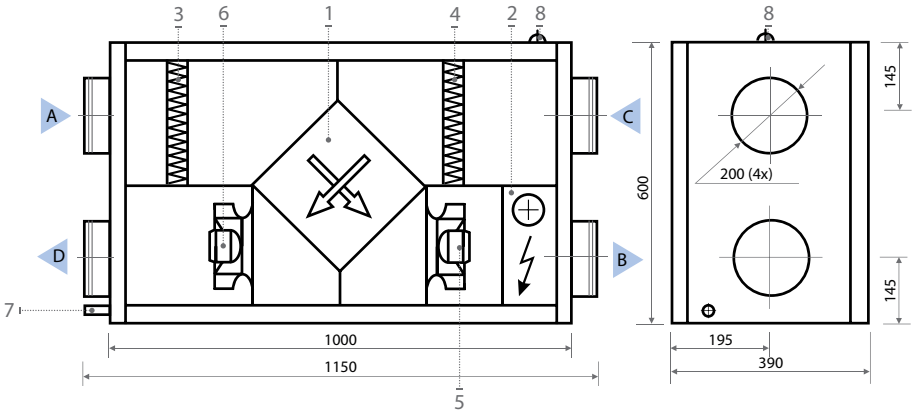


KOMPAKT RECU 400

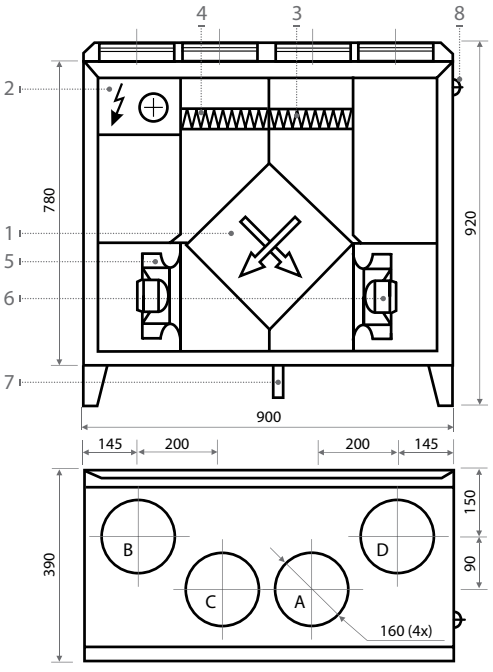
Panel thickness	45 mm
Unit weight V/H	62/55 kg
Nominal air flow	400 m³/h
Supply voltage	1~ 230 V
Maximal operating current EC/AC	10,7/10,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 400H



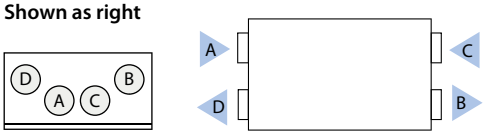
RECU 400V



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. Main cable (L=1,5 m)

Shown as right



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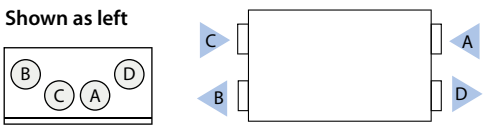

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories


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Air Filters. Supply / Exhaust

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

Fans Motors EC/AC

Input power	105/135 W
Rotation speed	3570/2650 rpm
Protection level, IEC 34-5	IP 44

Electric Air Heater

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

* Option

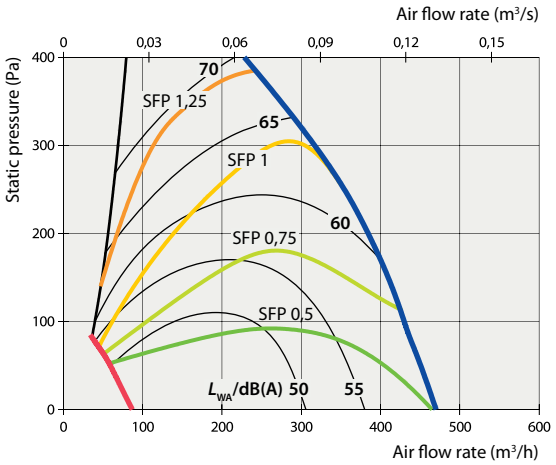
Temperature efficiency wet

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

Acoustic Data

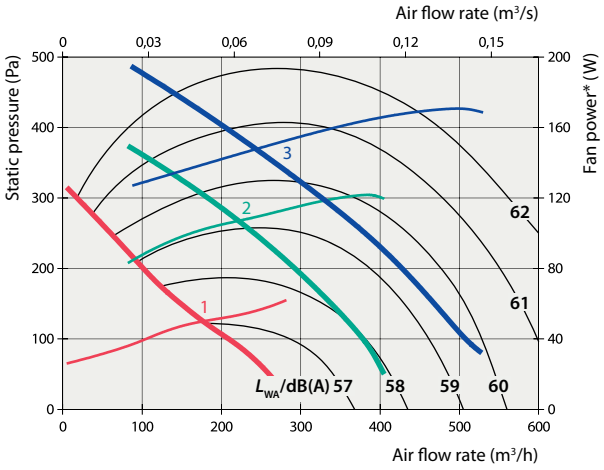
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 400 VE-EC									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 400 HE-EC									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 400 VE-AC									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 400 HE-AC									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 400-EC



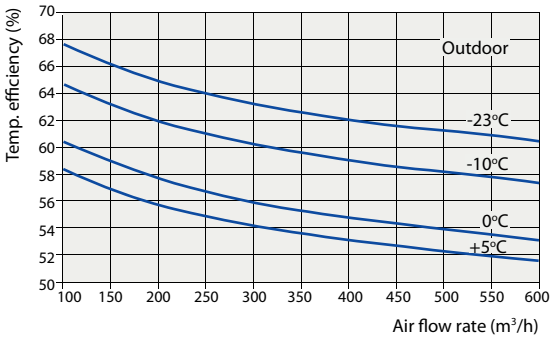
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance RECU 400-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 400 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Temperature efficiency wet



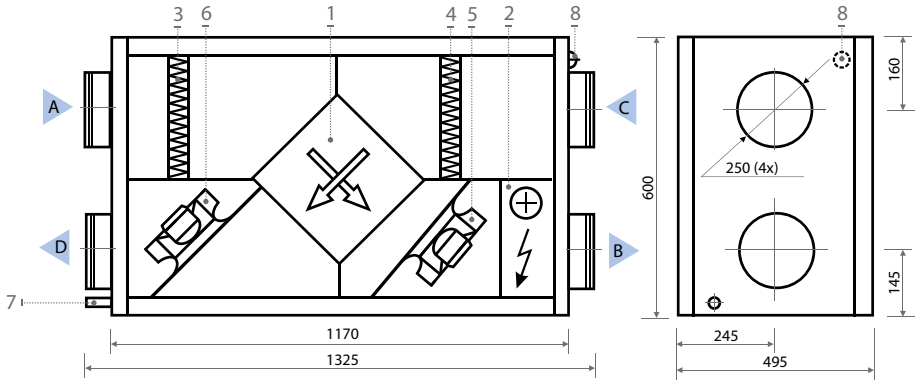
Application: 21°C, RH 45% indoor

KOMPAKT RECU 700

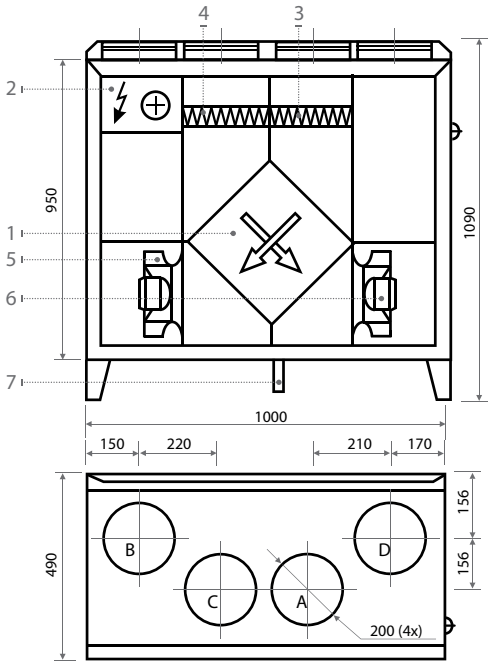
Panel thickness	45 mm
Unit weight V/H	85/75 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current EC/AC	13,7/12,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 700H



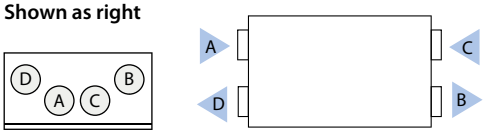
RECU 700V



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. Main cable (L=1,5 m)

Shown as right



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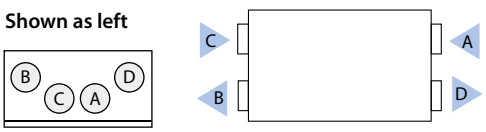

A Outdoor intake **B** Supply air **C** Extract indoor **D** Exhaust air

Accessories


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Air Filters. Supply / Exhaust

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

Fans Motors EC/AC

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

Electric Air Heater

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

* Option

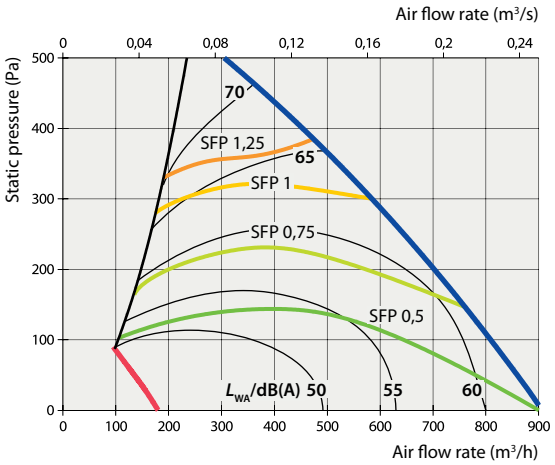
Temperature efficiency wet

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

Acoustic Data

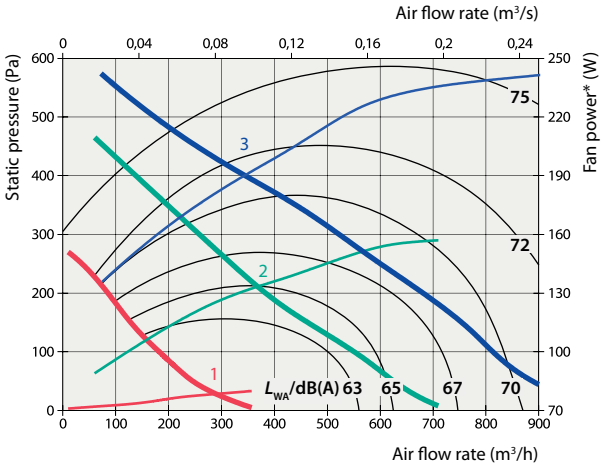
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 700 VE-EC									
Supply Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-10	-9	-9	-8	-12	-16	-20	-24	-6,9
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 700 HE-EC									
Supply Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-9	-7	-6	-6	-10	-15	-19	-23	-4,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 700 VE-AC									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 700 HE-AC									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 700-EC



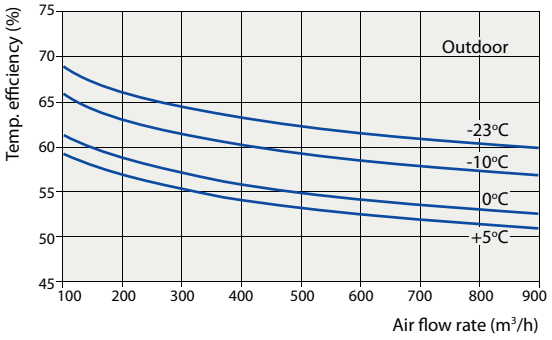
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

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



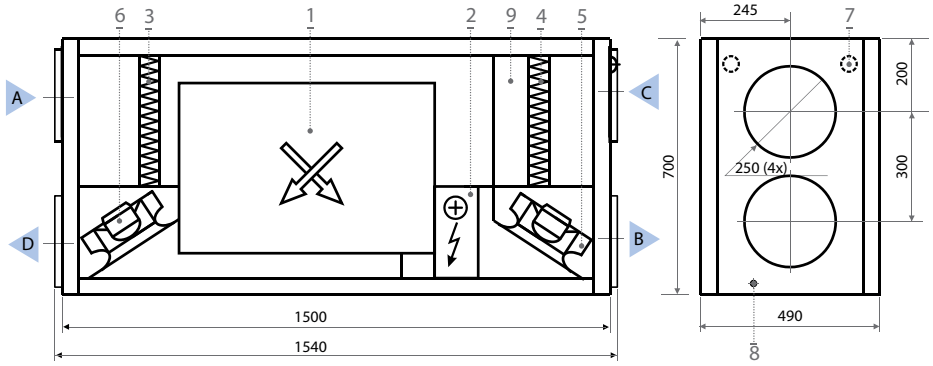
Application: 21°C, RH 45% indoor

KOMPAKT RECU 700

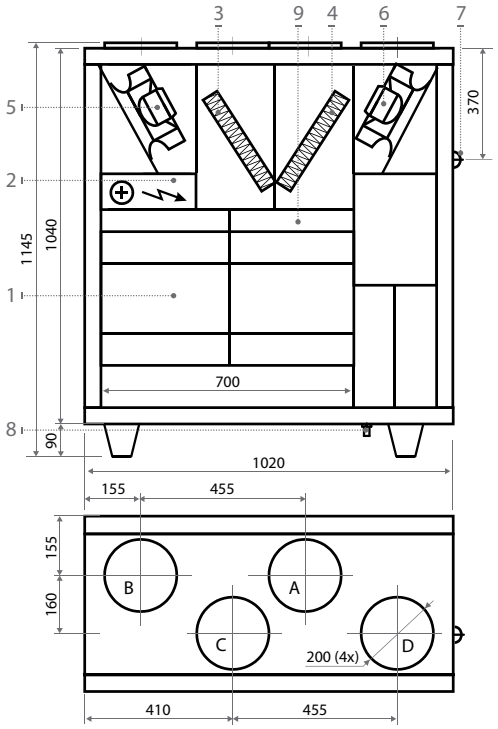
Panel thickness	45 mm
Unit weight	95 kg
Nominal air flow	700 m³/h
Supply voltage	1~ 230 V
Maximal operating current	11,5 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 700HECF



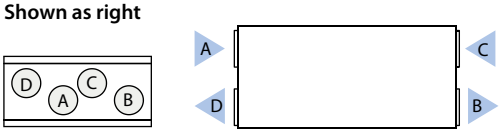
RECU 700VECF



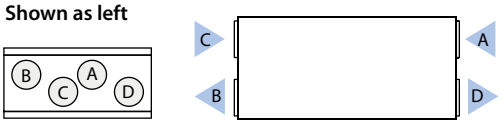
Design

1. Counterflow heat exchanger
2. Electric air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Main cable (L =1,5 m)
8. Condensate drain (the water trap must be installed D=15 mm)
9. By-pass damper

Shown as right



Shown as left



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

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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

* Option

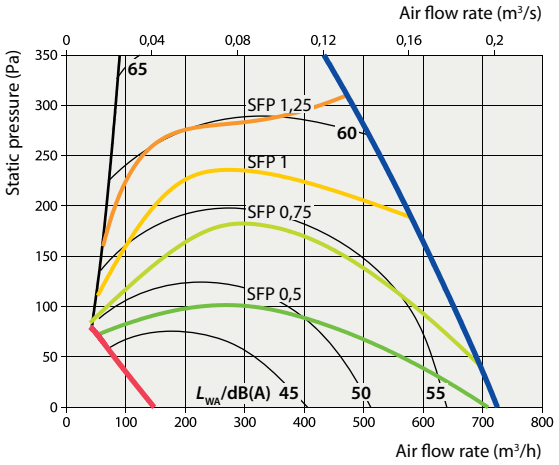
Temperature efficiency wet

		Supply		Exhaust
Intake temperature, °C	-10	-5	0	20
Supply temperature, °C	15.8	17	17.5	

Acoustic Data

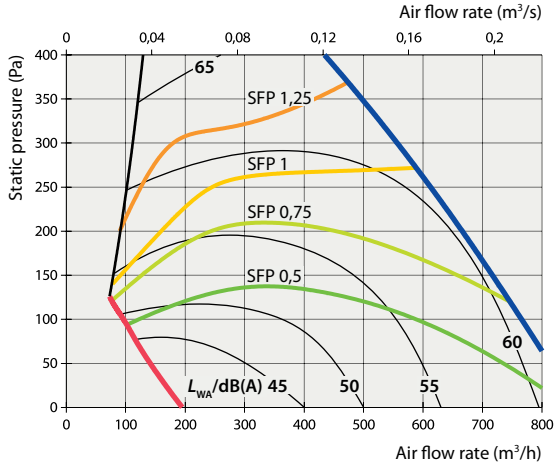
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 700 VECF									
Supply Inlet	-13	-11	-14	-13	-14	-21	-25	-28	-10,9
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-13	-11	-14	-13	-14	-21	-25	-27	-10,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 700 HECF									
Supply Inlet	-13	-11	-14	-13	-14	-21	-25	-28	-10,9
Supply Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Exhaust Inlet	-13	-11	-14	-13	-14	-21	-25	-27	-10,8
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance RECU 700VECF-EC



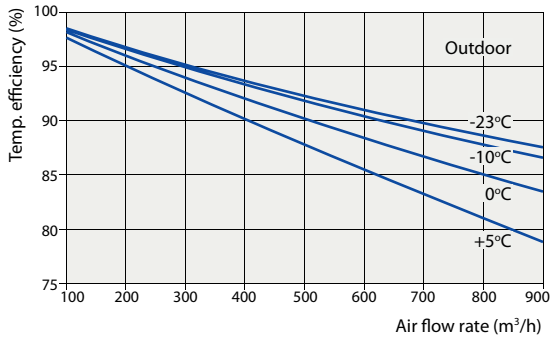
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 20 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

Performance RECU 700HECF-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.

Temperature efficiency wet



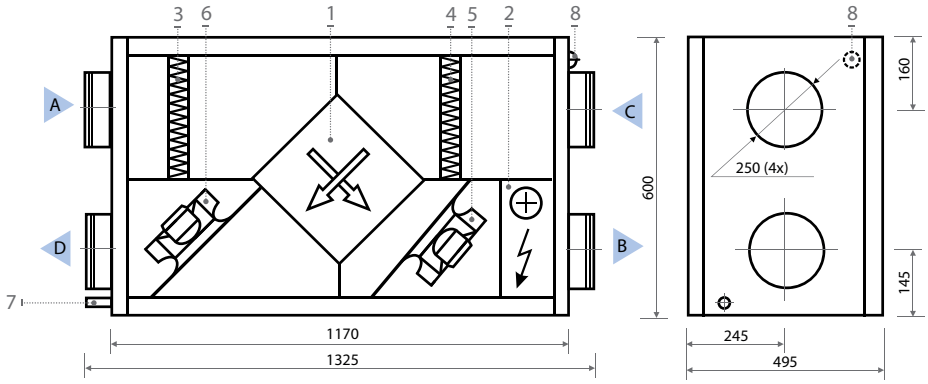
Application: 21°C, RH 45% indoor

KOMPAKT RECU 900

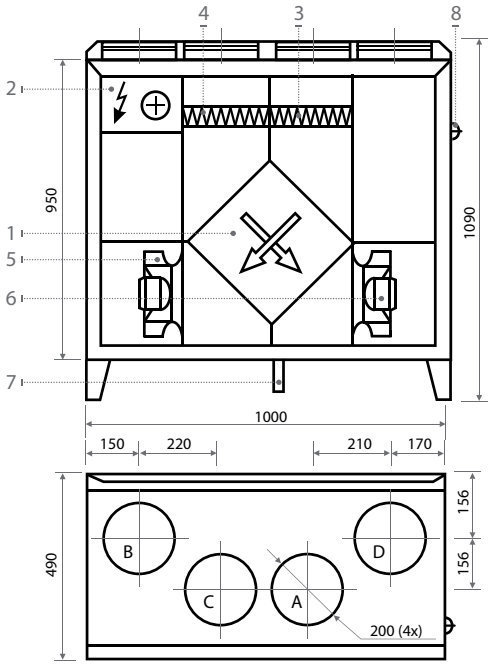
Panel thickness	45 mm
Unit weight V/H	90/78 kg
Nominal air flow	900 m³/h
Supply voltage	3~ 400 V
Maximal operating current EC/AC	9,3/10,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 900H



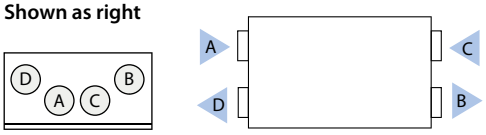
RECU 900V



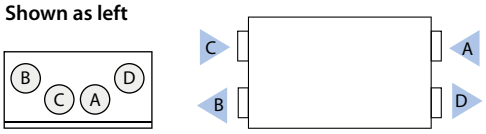
Design

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. Main cable (L=1,5 m)

Shown as right



Shown as left



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

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC/AC

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

Electric Air Heater

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

* Option

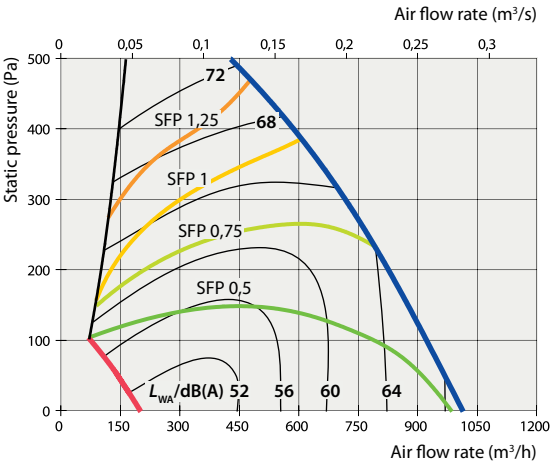
Temperature efficiency wet

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

Acoustic Data

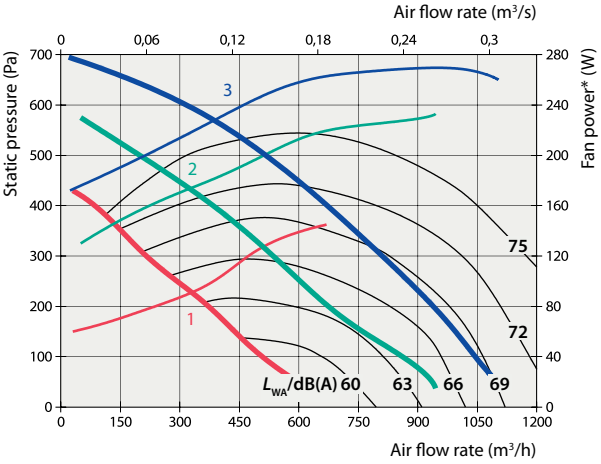
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 900 VE-EC									
Supply Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Supply Outlet	-9	-5	-5	-4	-7	-13	-16	-20	-2,4
Exhaust Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Exhaust Outlet	-9	-5	-5	-4	-7	-12	-16	-19	-2,3
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
RECU 900 HE-EC									
Supply Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-19	-0,1
Exhaust Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
RECU 900 VE-AC									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 900 HE-AC									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 900-EC



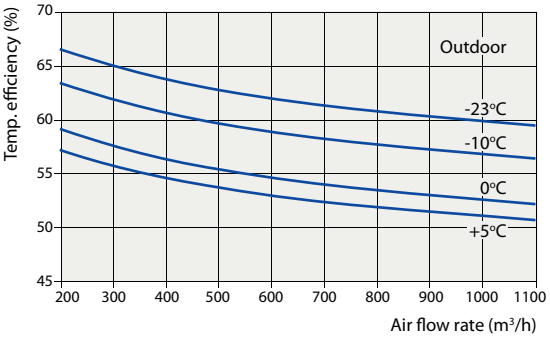
P[kW]= SFP[kW/(m³/s)] · V[m³/s]; SFP is shown for one fan. Performance data: filter M5. Correction factor for H/VW approximately 30 Pa at 900 m³/h. Correction factor for F7 class filter approximately – 70 Pa.

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



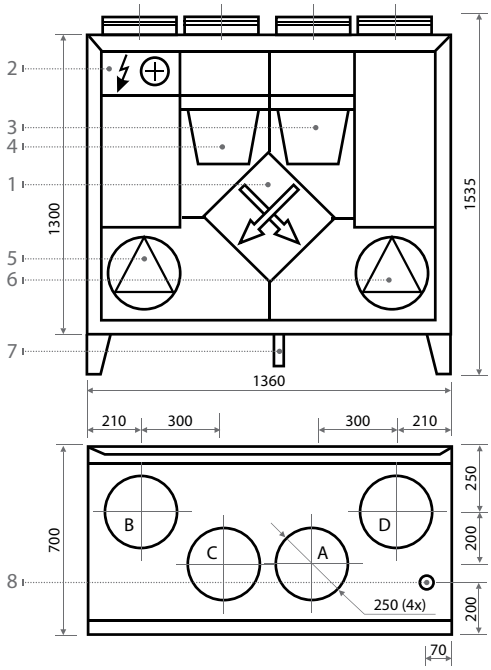
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1200

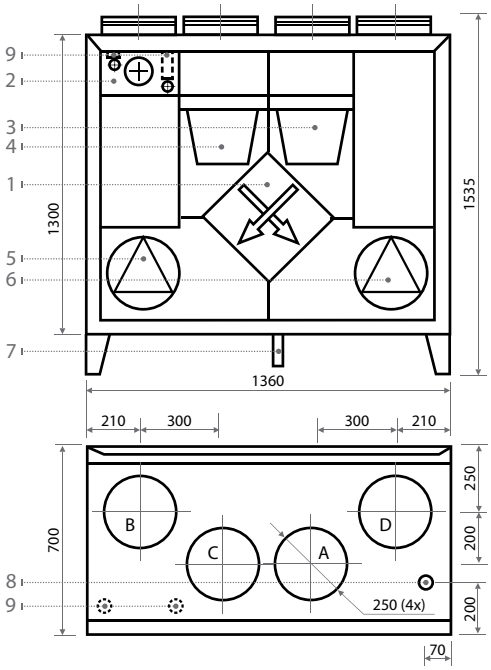
Panel thickness	45 mm
Unit weight	225 kg
Nominal air flow	1200 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	14,3 A
Maximal operating current (VW)	5,6 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 1200VE



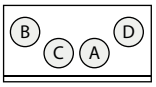
RECU 1200VW



Design

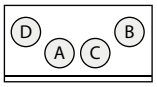
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Condensate drain (the water trap must be installed D=15 mm)
8. Main cable (L=1,5 m)
9. Fluid connection tube only for W

Shown as left



A Outdoor intake
B Supply air

Shown as right



C Extract indoor
D Exhaust air

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

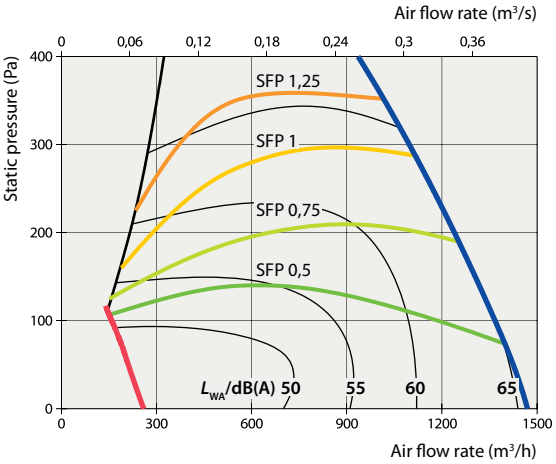
Air to water heat exchanger, HW

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

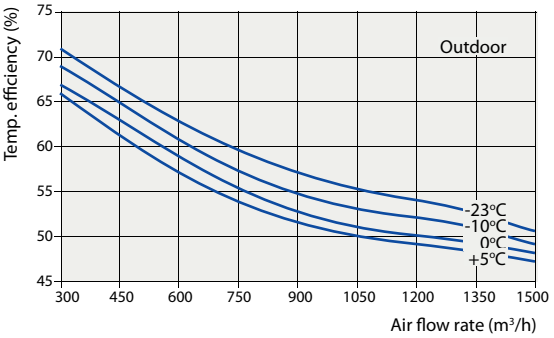
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 1200 VE									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-8	-5	-4	-4	-6	-12	-15	-19	-2,1
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 1200 VW									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-9	-5	-6	-5	-7	-13	-16	-21	-3,2
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Exhaust Outlet	-8	-5	-4	-4	-6	-12	-15	-18	-2,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance RECU 1200-EC



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



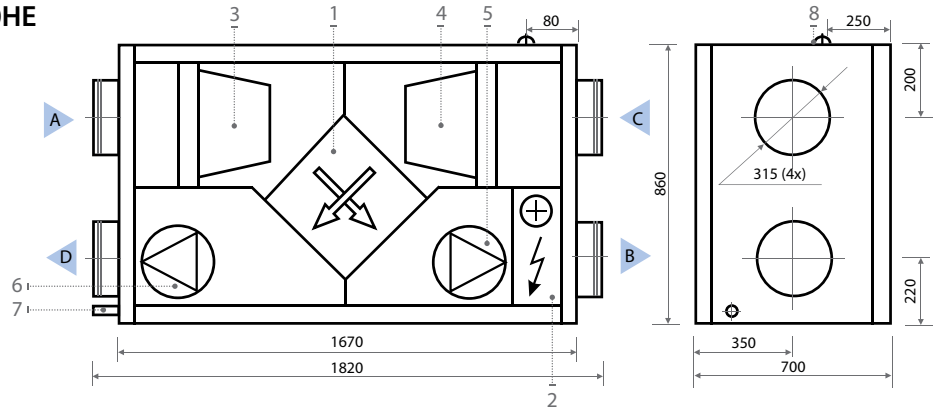
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1200

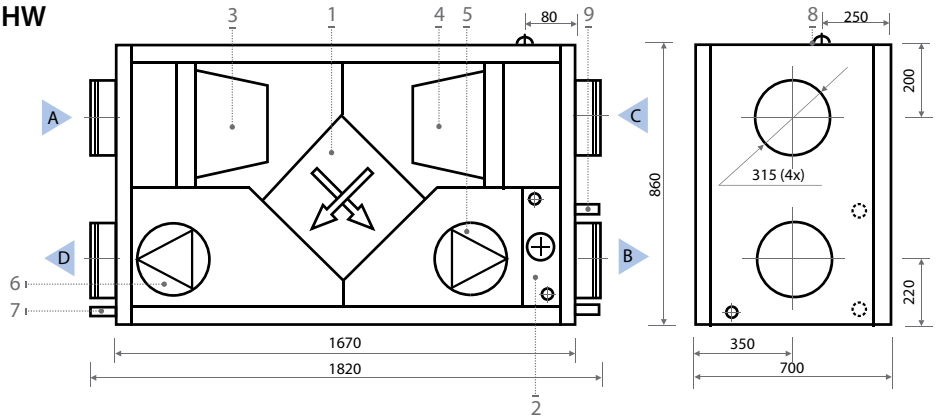
Panel thickness	45 mm
Unit weight	200 kg
Nominal air flow	1200 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	14,3 A
Maximal operating current (W)	5,6 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 1200HE



RECU 1200HW



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. Main cable (L=1,5 m)
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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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

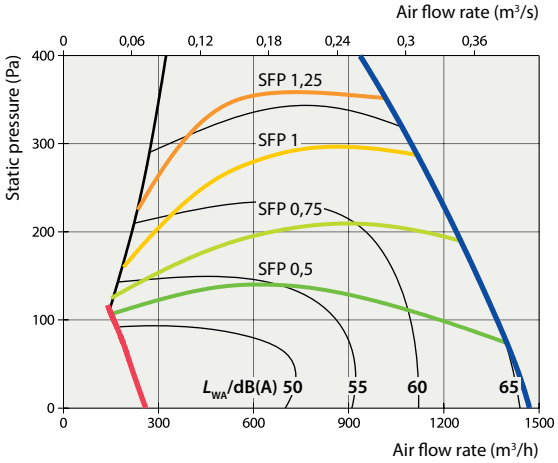
Air to water heat exchanger, HW

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

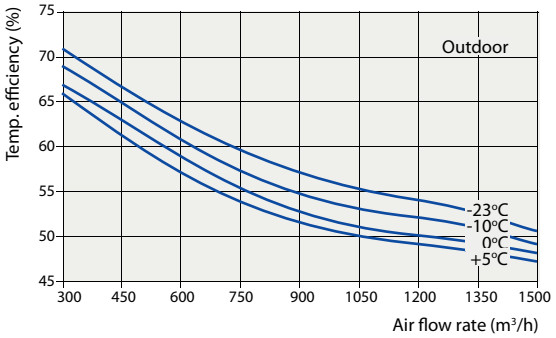
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 1200 HE									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-26	-6,7
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 1200 HW									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-8	-3	-2	-2	-6	-12	-15	-19	-1,1
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-26	-6,7
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance RECU 1200-EC



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



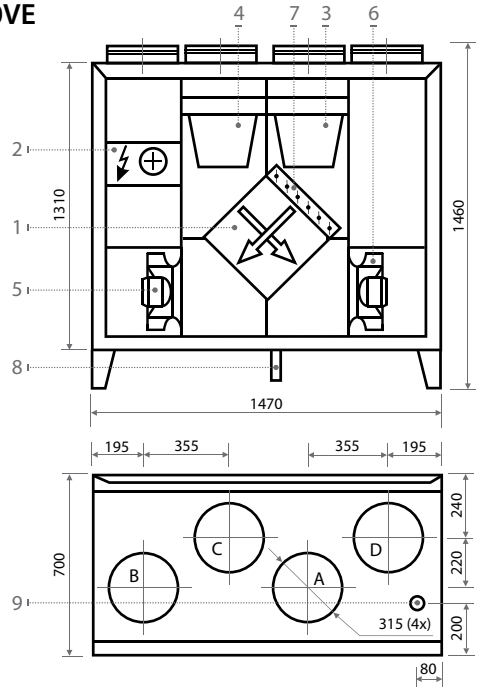
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1600

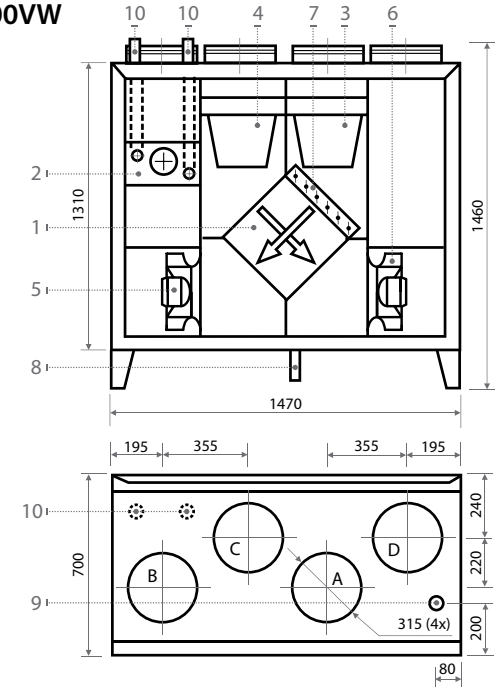
Panel thickness	45 mm
Unit weight E/W	300/290 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	23,2 A
Maximal operating current (W)	6,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 1600VE



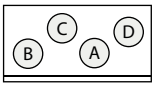
RECU 1600VW



Design

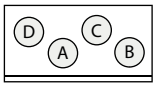
1. Plate heat exchanger
2. Electric or water air heater
3. Supply air filter
4. Exhaust air filter
5. Supply fan
6. Exhaust fan
7. Air by-pass damper
8. Condensate drain (the water trap must be installed D=28 mm)
9. Connection of main cable
10. Fluid connection tube only for W

Shown as left



A Outdoor intake
B Supply air

Shown as right



C Extract indoor
D Exhaust air

Accessories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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

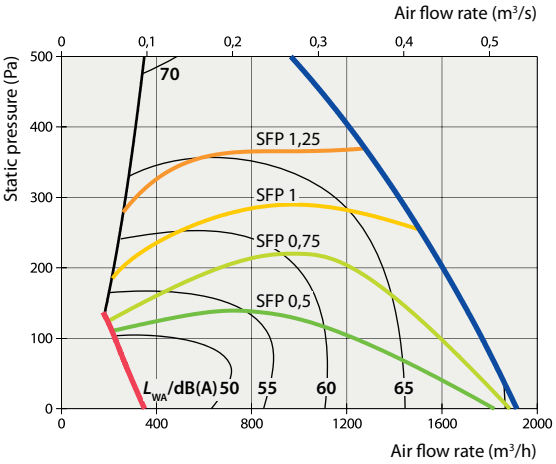
Air to water heat exchanger, HW

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

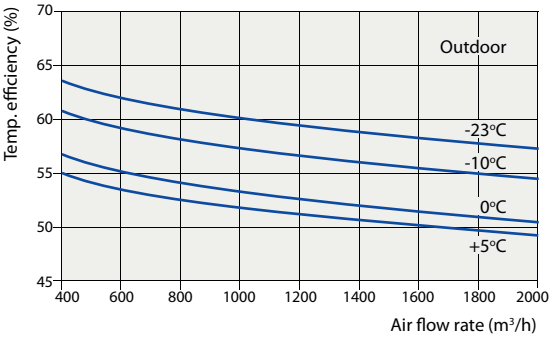
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 1600 VE									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 1600 VW									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 1600-EC



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



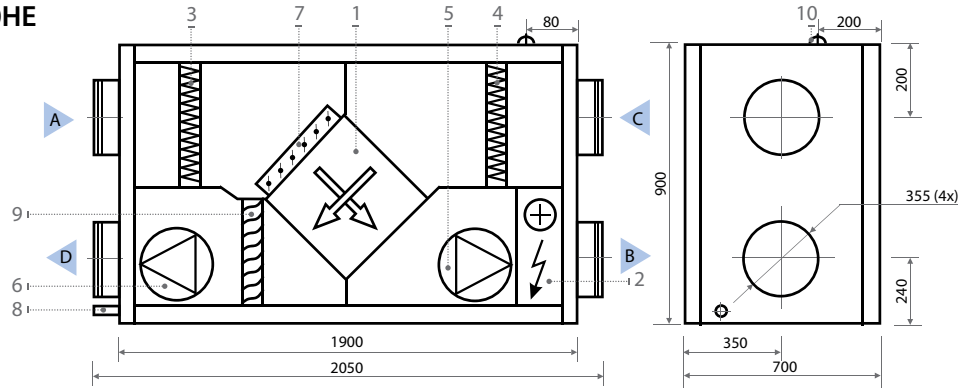
Application: 21°C, RH 45% indoor

KOMPAKT RECU 1600

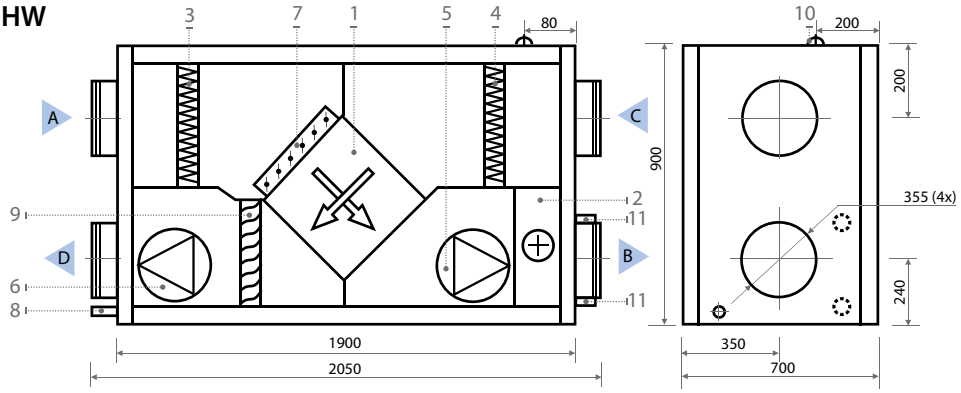
Panel thickness	45 mm
Unit weight E/W	320/330 kg
Nominal air flow	1600 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	23,2 A
Maximal operating current (W)	6,3 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 1600HE



RECU 1600HW



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. Air 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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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

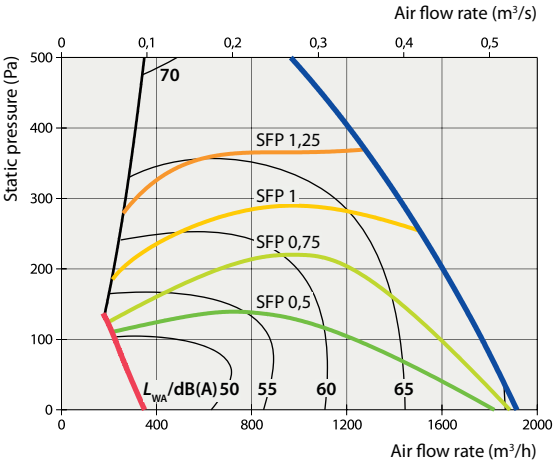
Air to water heat exchanger, HW

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

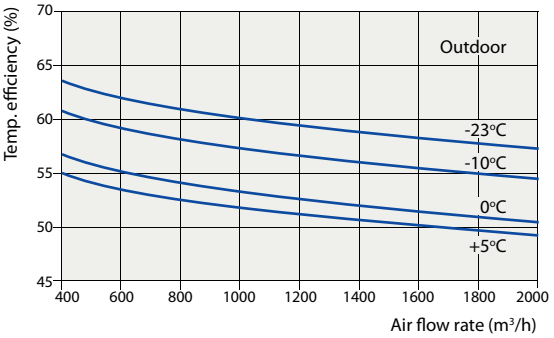
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 1600 HE									
Supply Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Supply Outlet	-8	-2	-1	-1	-5	-11	-15	-19	-0,1
Exhaust Inlet	-11	-8	-8	-8	-12	-20	-25	-28	-7,4
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1
RECU 1600 HW									
Supply Inlet	-11	-8	-8	-8	-12	-20	-25	-27	-7,4
Supply Outlet	-8	-3	-2	-2	-6	-12	-16	-21	-1,3
Exhaust Inlet	-11	-8	-8	-8	-12	-20	-25	-28	-7,4
Exhaust Outlet	-8	-2	-1	-1	-5	-11	-15	-18	0,0
Surrounding (3pl., 3m)	-25	-21	-22	-29	-33	-38	-44	-48	-26,1

Performance RECU 1600-EC



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



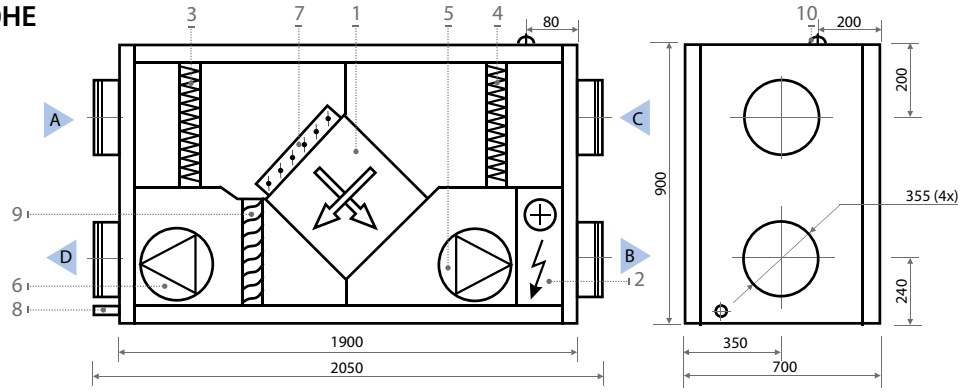
Application: 21°C, RH 45% indoor

KOMPAKT RECU 2000

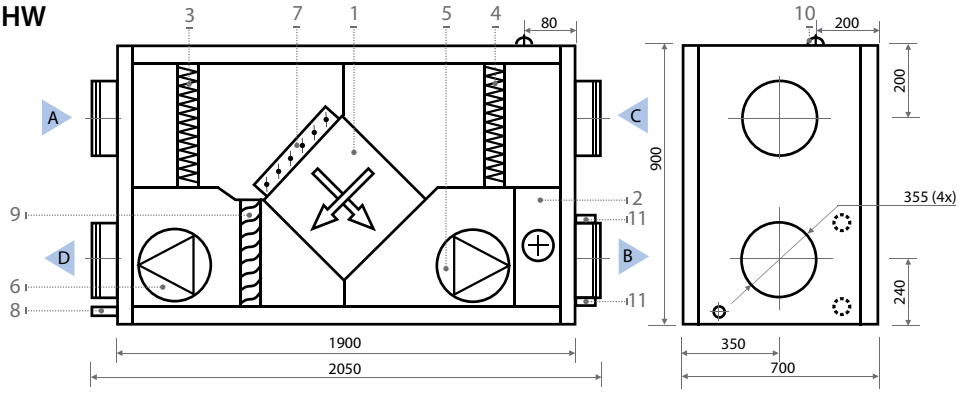
Panel thickness	45 mm
Unit weight E/W	325/330 kg
Nominal air flow	2000 m³/h
Supply voltage (E)	3~ 400 V
Supply voltage (W)	1~ 230 V
Maximal operating current (E)	32,1 A
Maximal operating current (W)	6,4 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 2000HE



RECU 2000HW



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. Air 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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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

Capacity	18 kW
Air temperature, Δt	13,3°C

* Option

Temperature efficiency wet

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

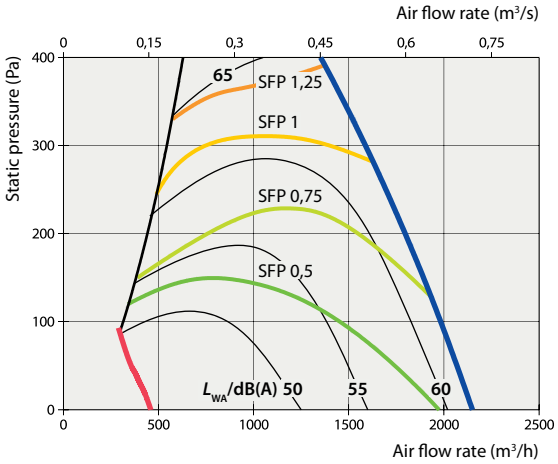
Air to water heat exchanger, HW

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

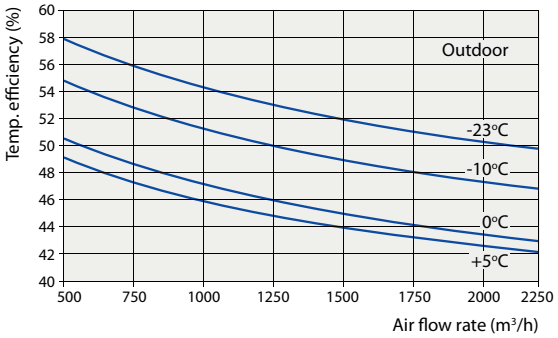
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 2000 HE									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-7	-2	-1	-1	-5	-11	-14	-18	-0,1
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-26	-6,7
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8
RECU 2000 HW									
Supply Inlet	-11	-7	-7	-8	-11	-18	-23	-25	-6,7
Supply Outlet	-8	-3	-2	-2	-6	-12	-15	-19	-1,1
Exhaust Inlet	-11	-7	-7	-8	-11	-18	-23	-26	-6,7
Exhaust Outlet	-7	-2	-1	-1	-5	-10	-14	-17	0,0
Surrounding (3pl., 3m)	-24	-21	-21	-28	-31	-36	-41	-45	-24,8

Performance RECU 2000-EC



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



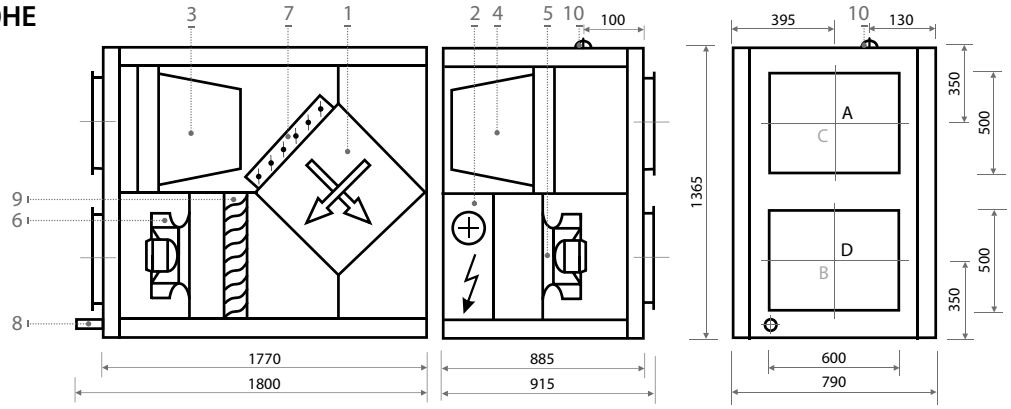
Application: 21°C, RH 45% indoor

KOMPAKT RECU 3000

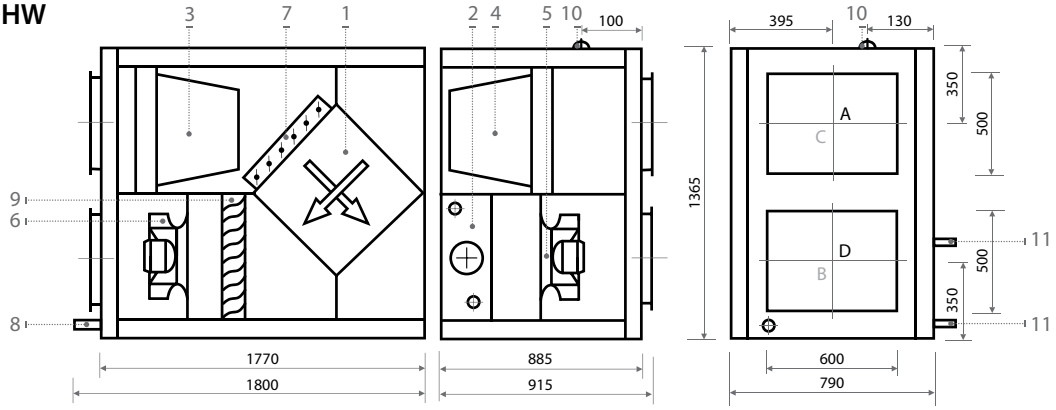
Panel thickness	45 mm
Unit weight	540 (390/150) kg
Nominal air flow	3000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	29,7 A
Maximal operating current (W)	4,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 3000HE



RECU 3000HW



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. Air 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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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

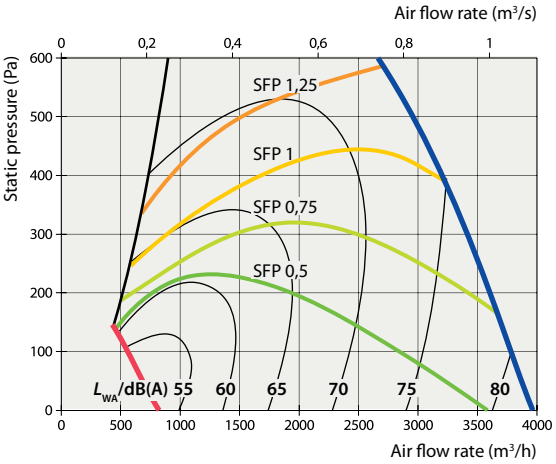
Air to water heat exchanger, HW

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

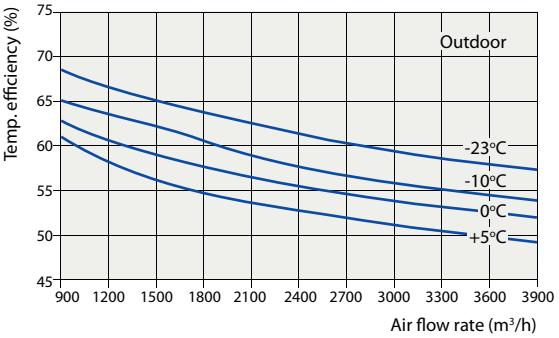
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 3000 HE									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 3000 HW									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 3000-EC



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



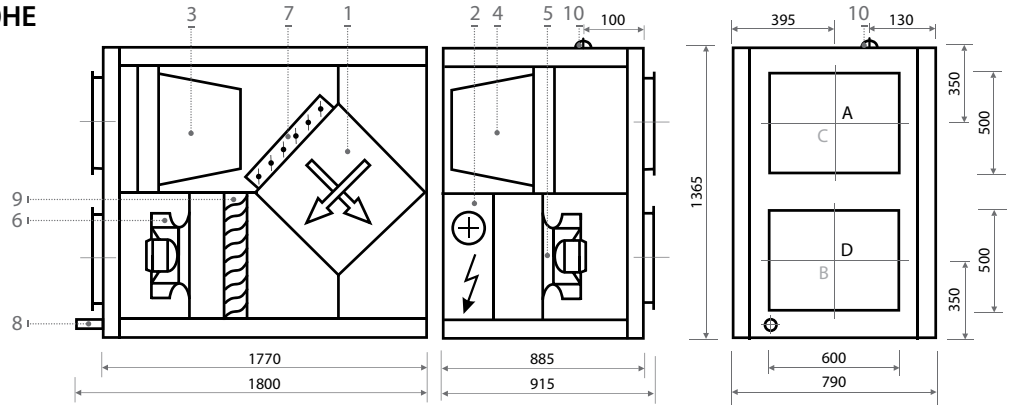
Application: 21°C, RH 45% indoor

KOMPAKT RECU 4000

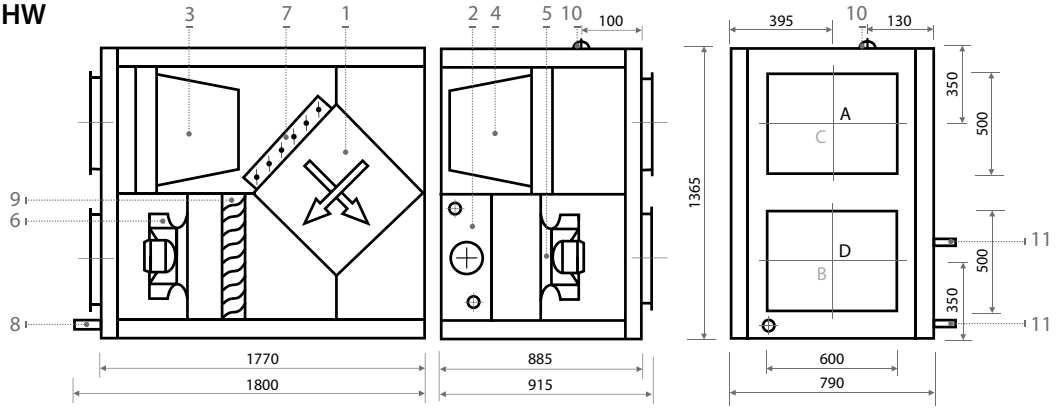
Panel thickness	45 mm
Unit weight	620 (440/180) kg
Nominal air flow	4000 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	38,4 A
Maximal operating current (W)	4,1 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 4000HE



RECU 4000HW



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. Air 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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Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

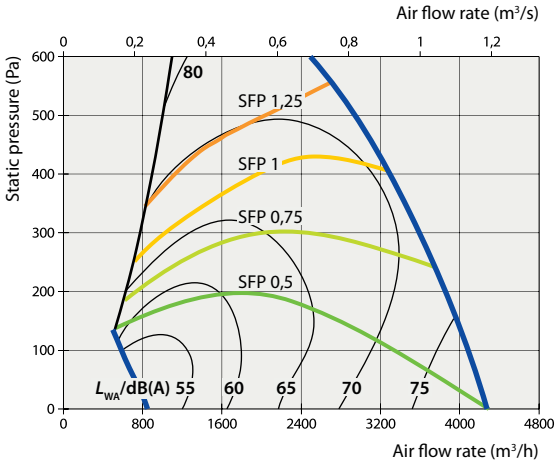
Air to water heat exchanger, HW

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

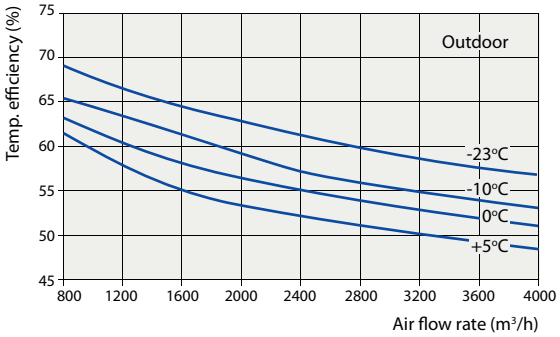
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 4000 HE									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 4000 HW									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 4000-EC



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



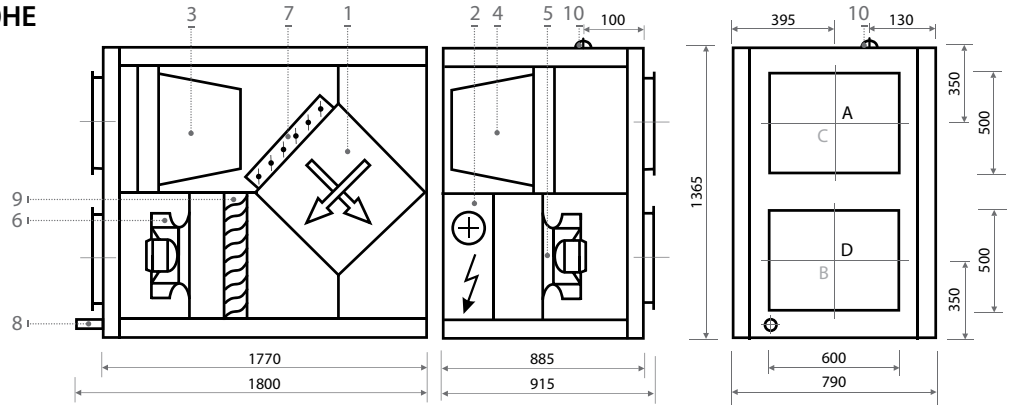
Application: 21°C, RH 45% indoor

KOMPAKT RECU 4500

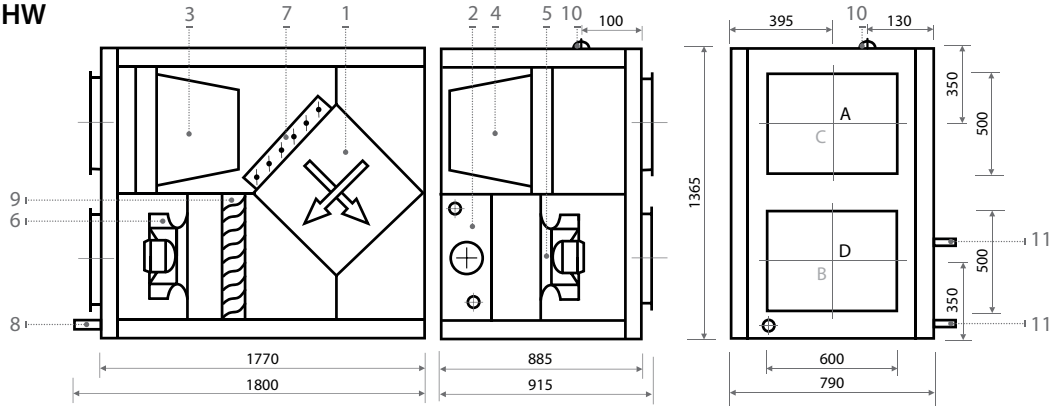
Panel thickness	45 mm
Unit weight	625 (440/185) kg
Nominal air flow	4500 m³/h
Supply voltage	3~ 400 V
Maximal operating current (E)	40,2 A
Maximal operating current (W)	5,9 A
Paint color	RAL 7035
Control system	KOMFOVENT C3

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

RECU 4500HE



RECU 4500HW



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. Air 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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p. 82

Air Filters. Supply / Exhaust

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

Fans Motors EC

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

Electric Air Heater

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	

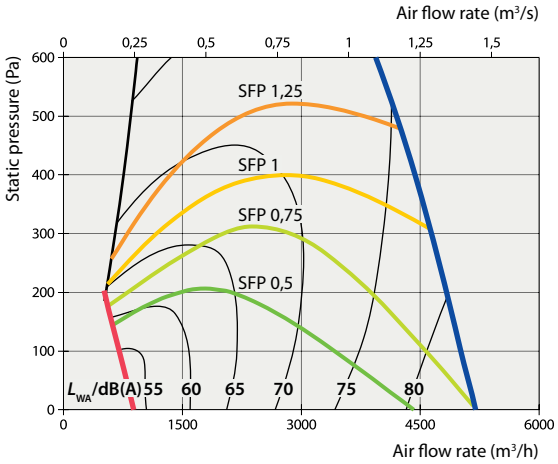
Air to water heat exchanger, HW

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

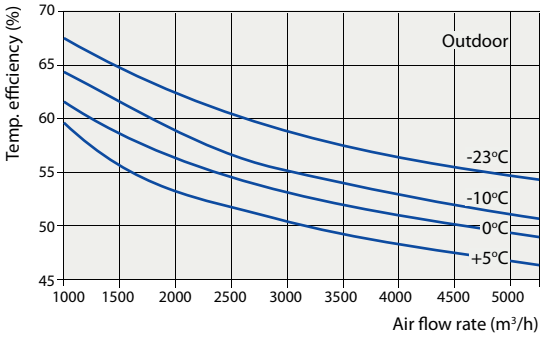
	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 4500 HE									
Supply Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Supply Outlet	-10	-5	-5	-4	-7	-15	-19	-24	-2,9
Exhaust Inlet	-12	-10	-10	-10	-14	-20	-25	-31	-9,2
Exhaust Outlet	-10	-5	-5	-4	-7	-14	-18	-23	-2,9
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
RECU 4500 HW									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

Performance RECU 4500-EC



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



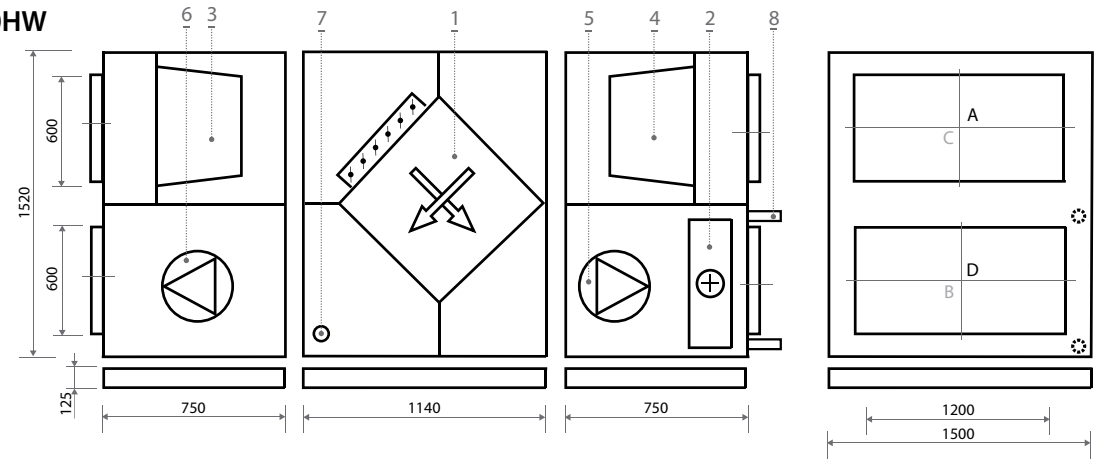
Application: 21°C, RH 45% indoor

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 7000HW



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

Shown as right

Shown as left

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

Accessories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p. 80


p. 76


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p. 82

Air Filters. Supply / Exhaust

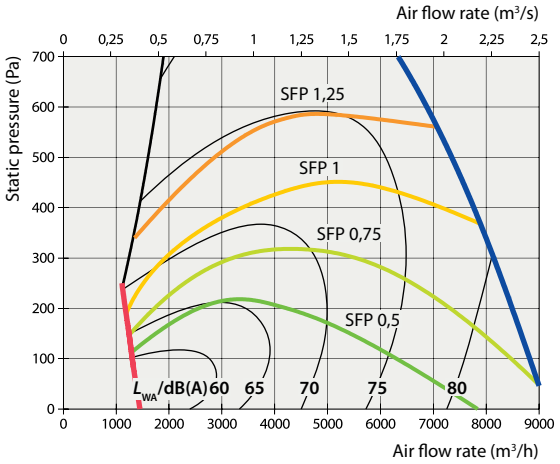
Filter class	EN779:2011 M5/F7*
Type	Bag filter
Dimensions bxhxl	592x592-12x635 mm
Quantity	2 pcs.

Fans Motors EC

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

* Option

Performance RECU 7000-EC



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.

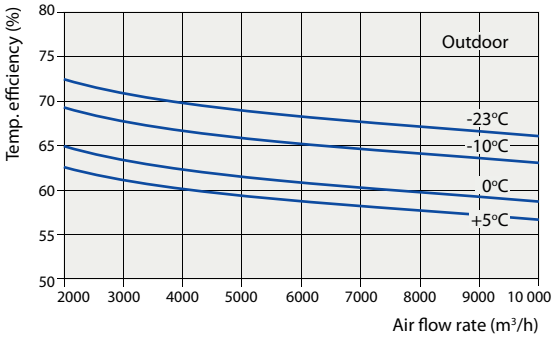
Temperature efficiency wet

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

Air to water heat exchanger, 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

Temperature efficiency wet



Application: 21°C, RH 45% indoor

Acoustic Data

	63	125	250	500	1k	2k	4k	8k	dB(A)
RECU 7000 HW									
Supply Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Supply Outlet	-8	-2	0	0	-5	-13	-17	-22	-0,1
Exhaust Inlet	-11	-8	-6	-6	-12	-18	-24	-29	-6,2
Exhaust Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

KOMFOVENT KOMPAKT OTK units

KOMFOVENT KOMPAKT OTK – false ceiling supply air handling units.
Capacity range from 170 to 4 200 m³/h.

Advantages of KOMFOVENT KOMPAKT OTK units

- Height is only 350 mm and 545 mm (for OTK 3000 and OTK 4000) – 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 that simplifies units' preparation to start work: plug and play.
- 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

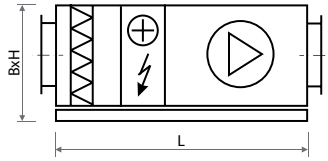
The photo is intended for informational purposes only, exact details may vary.

Supply air units

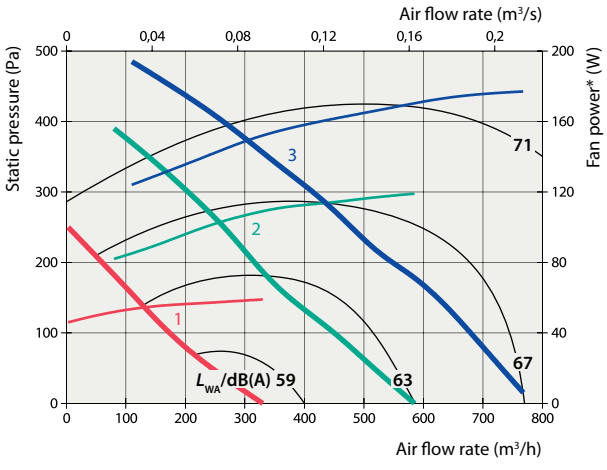
Type	Dimensions BxHxL	Thermal and sound insulation	Ducts connection	Supply voltage / phases	Fan input power AC	Air heater capacity	Maximal operating current	ΔT	Filter M5
	mm	mm	mm	V	W	kW	A	°C	
With electric heater									
OTK 700P-E3	440x350x850	45	ø 200	230/1f	165	3,0	13,8	13	345x287x46
OTK 700P-E6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

Acoustic Data

	63	125	250	500	1k	2k	4k	8k	dB(A)
OTK 700 PE									
Supply Inlet	-9	-3	-3	-3	-8	-15	-20	-24	-2,8
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4



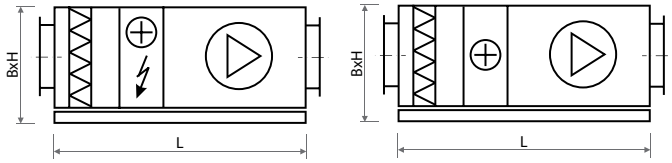
Performance OTK 700-AC



1, 2, 3 – speed; * – fan power is shown for one fan motor. Performance data: filter M5.

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.

Supply air units

Type	Dimensions BxHxL	Thermal and sound insulation	Ducts connection	Supply voltage / phases	Fan input power AC	Air heater capacity	Maximal operating current	ΔT	ΔP Water	Filter M5
	mm	mm	mm	V	W	kW	A	°C	kPA	
With electric heater										
OTK 1200P-E9	690x350x850	45	ø 250	400/3f	290	9,0	14,3	22		558x287x46
OTK 1200P-E15	690x350x850	45	ø 250	400/3f	290	15,0	23,0	37		558x287x46
With hot water heater										
OTK 1200P-W15	690x350x850	45	ø 250	230/1f	290	15,0	1,8		10,1	558x287x46

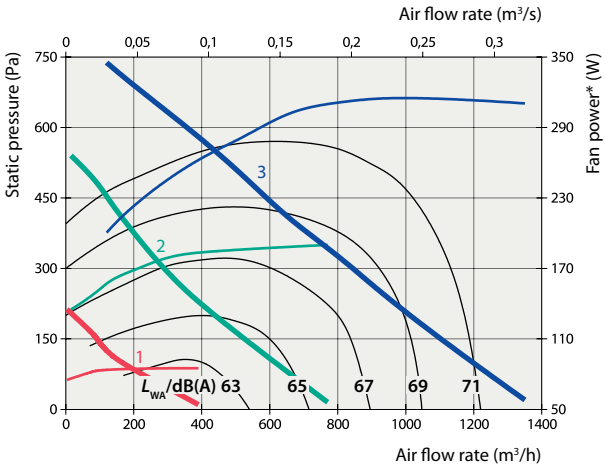
Air to water heat exchanger, HW

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

	63	125	250	500	1k	2k	4k	8k	dB(A)
OTK 1200 PE									
Supply Inlet	-9	-3	-2	-3	-8	-16	-21	-25	-3,0
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
OTK 1200 PW									
Supply Inlet	-9	-3	-2	-3	-8	-16	-21	-25	-3,0
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

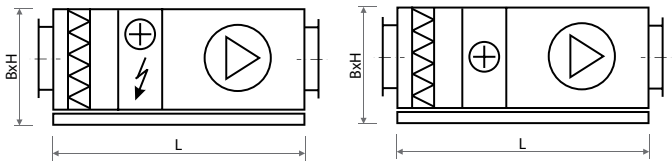
Performance OTK 1200-AC



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.

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.

Supply air units

Type	Dimensions BxHxL	Thermal and sound insulation	Ducts connection	Supply voltage / phases	Fan input power AC	Air heater capacity	Maximal operating current	ΔT	ΔP Water	Filter M5
	mm	mm	mm	V	W	kW	A	°C	kPA	
With electric heater										
OTK 2000P-E15	1000x350x865	45	700x250	400/3f	2x290	15,0	24,2	22		858x287x46
OTK 2000P-E22.5	1000x350x865	45	700x250	400/3f	2x290	22,5	35,1	33		858x287x46
With hot water heater										
OTK 2000P-W30	1000x350x865	45	700x250	230/1f	2x290	30,0	12,5		12,5	858x287x46

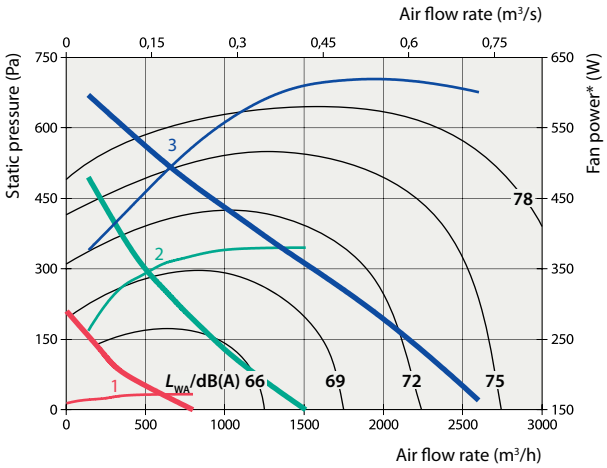
Air to water heat exchanger, HW

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

	63	125	250	500	1k	2k	4k	8k	dB(A)
OTK 2000 PE									
Supply Inlet	-9	-3	-2	-3	-8	-16	-21	-25	-3,0
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5
OTK 2000 PW									
Supply Inlet	-10	-4	-4	-5	-10	-17	-23	-28	-4,3
Supply Outlet	-8	-2	0	0	-5	-12	-17	-21	0,0
Surrounding (3pl., 3m)	-26	-22	-24	-32	-36	-43	-50	-55	-28,5

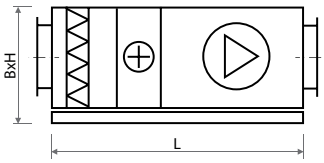
Performance OTK 2000-AC



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.

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.

Supply air units

Type	Dimensions BxHxL	Thermal and sound insulation	Ducts connection	Supply voltage / phases	Fan input power EC	Maximal operating current	ΔP Water	Filter M5
	mm	mm	mm	V	W	A	kPA	
With hot water heater								
OTK 3000PW	1005x545x1217	45	600 x 400	400/3f	990	2,2	5,1	450 x 480 x 96(x2)

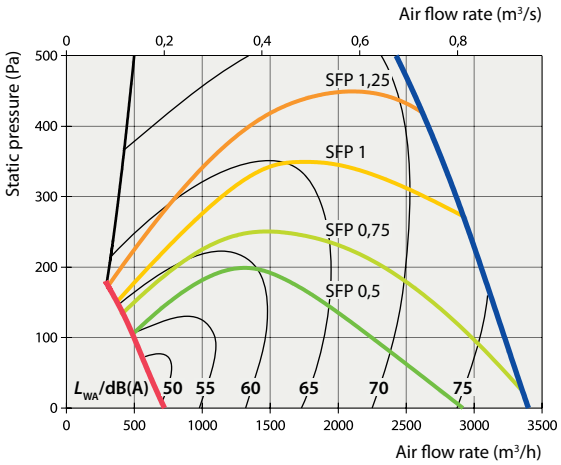
Air to water heat exchanger, HW

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

Acoustic Data

	63	125	250	500	1k	2k	4k	8k	dB(A)
OTK 3000 PW									
Supply Inlet	-9	-4	-4	-5	-9	-16	-21	-26	-4,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4

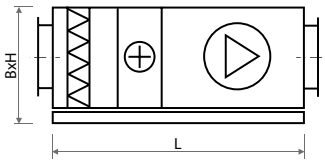
Performance OTK 3000-EC



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.

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.

Supply air units

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

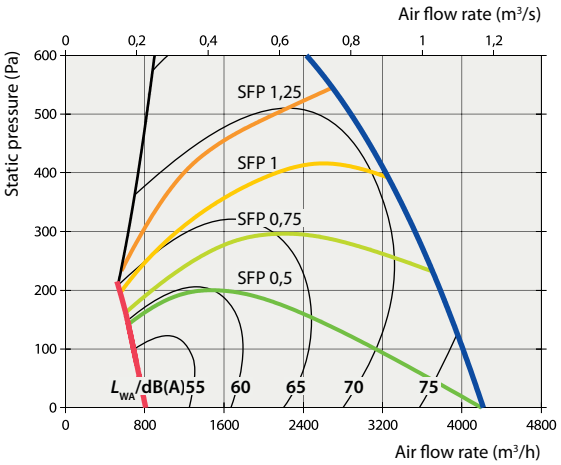
Air to water heat exchanger, HW

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

	63	125	250	500	1k	2k	4k	8k	dB(A)
OTK 4000 PW									
Supply Inlet	-9	-4	-4	-5	-9	-16	-21	-26	-4,1
Supply Outlet	-8	-2	-1	-1	-5	-12	-16	-20	0,0
Surrounding (3pl., 3m)	-26	-22	-23	-30	-34	-41	-47	-51	-27,4

Performance OTK 4000-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.

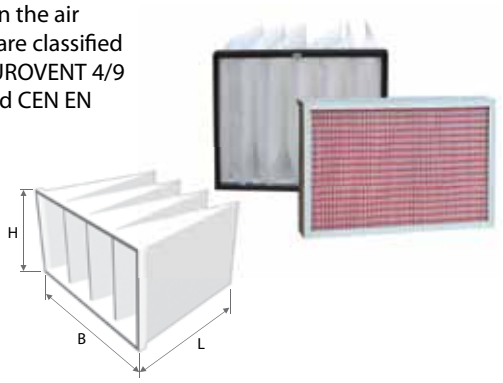
Accessories

Supply and Exhaust Filters

99,9% (in amount) of particulates in the outdoor air are smaller than 1 mm. 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.

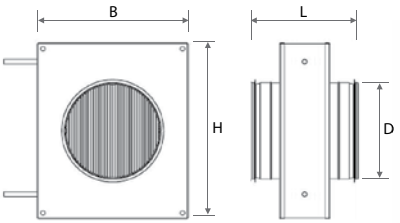
Unit size	Filter M5, F7 dimensions BxHxL, mm
REGO 400	410x200x46
REGO 500	540x260x46
REGO 700	540x260x46
REGO 900V	592x287-6x360
REGO 900H	700x325x96
REGO 1200V	592x287-6x360
REGO 1200H	700x325x96
REGO 1200P	410x420x46
REGO 1600	800x450x46
REGO 2000	800x450x46
REGO 2500	800x450x46
REGO 3000	892x490-9x300
REGO 4000	892x490-9x300
REGO 4500	892x490-9x300
REGO 7000	592x592-12x635 (x2)
RECU 400	300x195x46
RECU 700	400x235x46
RECU 700CF	390x300x46
RECU 900	400x235x46
RECU 1200	592x287-6x360
RECU 1600V	592x287-6x360
RECU 1600H	610x350x96
RECU 2000	610x350x96
RECU 3000	592x592-6x300
RECU 4000	592x592-6x300
RECU 4500	592x592-6x300
RECU 7000	592x592-12x635 (x2)

Unit size	Filter dimensions BxHxL, mm	M5	F7
OTK 700	345x287x46	+	-
OTK 1200	558x287x46	+	-
OTK 2000	858x287x46	+	-
OTK 3000	450x480x96 (x2)	+	+
OTK 4000	450x480x96 (x2)	+	+

Accessories

Hot water duct air heaters

Hot water duct air heaters are offered for KOMPAKT REGO 400, 500, 700 and RECU 400, 700, 900 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	315	315	220	3/8
DH-200	200	315	315	220	3/8
DH-250	250	365	365	220	3/8
DH-315	315	415	415	220	3/8

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 400H	DH-160	2.7	8 / 27	11	117	2.2
REGO 500V	DH-250	3.0	8 / 25	9	132	3.4
REGO 500H	DH-200	3.0	8 / 25	15	144	2.8
REGO 700	DH-250	4.5	8 / 26	14	196	7.0
REGO 900V	DH-250	4.9	11 / 26	21	214	8.2
REGO 1200V	DH-315	7.0	9 / 26	20	308	19.3
RECU 400V	DH-160	2.7	8 / 27	11	117	2.2
RECU 400H	DH-200	2.7	8 / 27	11	117	2.2
RECU 700V	DH-200	3.1	7 / 20	25	144	2.8
RECU 700H	DH-250	3.1	7 / 20	14	144	3.6
RECU 900V	DH-200	4.0	7 / 20	40	180	4.5
RECU 900H	DH-250	4.0	7 / 20	21	180	5.6

* 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.

Electric Air Heaters

Electric air heaters feature long life and reliable stainless steel heating elements. Power of the electric heaters is controlled by applying PWM (Pulse Wide Modulation) method using a triac.

Design:

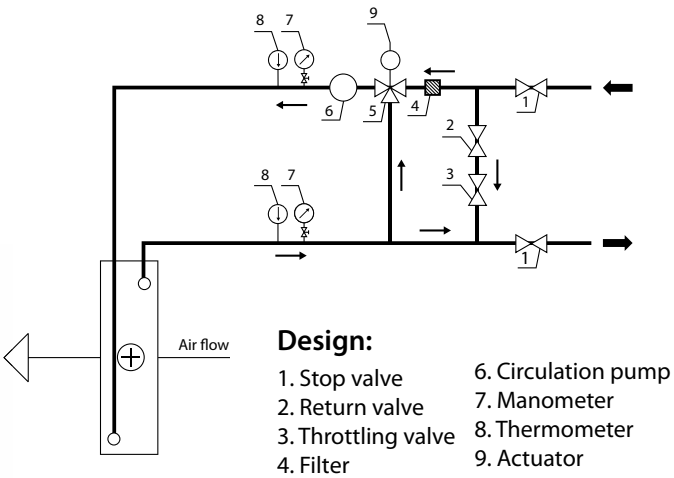
- Galvanized sheet steel casing
- Heating elements
- Electrical part box
- Overheating manual reset

The air handling units has an overheating protection

The limiting overheating protection shuts down heating elements at the temperature of +90°C. This type of protection is provided with the automatic reset function, i.e. the electric heater is on after the temperature falls bellow the allowable value.
The alarm overheating protection shuts down heating elements at the temperature of +110°C. This type of protection is reset manually by pressing the reset button.

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 500V	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 500H	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 900V	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 900H	Integrated heater	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 1200V and 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 1200H	Integrated heater	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20	PPU-0.63-25_20
REGO 1600	Integrated heater	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_20	PPU-1.0-25_40
REGO 2000	Integrated heater	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
REGO 2500	Integrated heater	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40	PPU-1.6-25_40
REGO 3000	Integrated heater	PPU-1.0-25_20	PPU-1.6-25_40	PPU-1.6-25_40	PPU-2.5-25_40
REGO 4000	Integrated heater	PPU-2.5-25_40	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60
REGO 4500	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 2000	Integrated heater	PPU-1.6-25_40	PPU-2.5-25_40	PPU-4.0-25_60	PPU-4.0-25_60
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**

Accessories

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	A	AGS-250-50-900-M
	B	AGS-250-50-1200-M
	C	AGS-250-50-1200-M
	D	AGS-250-50-900-M
REGO 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
REGO 1200H REGO 1200P	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 1600V	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 1600H	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 2000V	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

Unit size	Silencer type	
REGO 2000H	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 2500V	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
REGO 2500H	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 3000V	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 3000H	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 4000V	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 4000H	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 4500V	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 4500H	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

Note: Acoustic countable data is: 50dB(A) for exhaust outlet and 40dB(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

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	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
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 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: 50dB(A) for exhaust outlet and 40dB(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

Accessories

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	AGUJ-M-250
REGO-1200 V	AGUJ-M-250
REGO-1200 H	AGUJ-M-315
REGO-1200 P	AGUJ-M-315
REGO-1600	SRU-M-400x300
REGO-2000	SRU-M-400x300
REGO-2500	SRU-M-400x300
REGO-3000 V	SRU-M-400x400
REGO-3000 H	SRU-M-600x500
REGO-4000 V	SRU-M-400x400
REGO-4000 H	SRU-M-600x500
REGO-4500 V	SRU-M-400x400
REGO-4500 H	SRU-M-600x500
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-2000	AGUJ-M-355
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	+	+

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, 700, 900, 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.

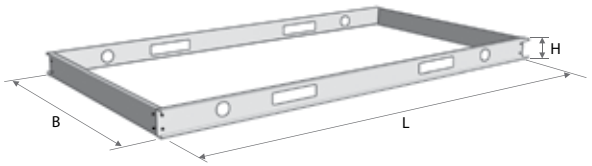
Air handling unit size	Roof code	Dimensions BxL
REGO (500-700) H	712200023	910x1210
REGO (900-1200) H	712232872	1000x1600
REGO (1600-2000-2500) H	712232873	1165x1700
REGO (3000-4000-4500) H	712238424	1345x2005
REGO 7000 H	712200252	1700x2550
RECU 400 H	712232869	505x1300
RECU (700-900) H	712237971	605x1470
RECU 700 HCF	712200247	590x1700
RECU 1200 H	712232870	855x1870
RECU (1600-2000) H	712232868	1000x2110
RECU (3000-4000-4500) H	712232875	1075x2945
RECU 7000 H	712200253	1700x3250

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 H	G-600x430	AHIA-250
REGO 1200 H	G-600x430	AHIA-315
REGO (1600-2000-2500) H	G-600x430	G-600x430
REGO (3000-4000-4500) H	G-700X600	G-700x600
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-400
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) V	SSK-10.001A	745x100x1250
REGO (900-1200) H	SSK-11.001A	745x100x1400
REGO (1600-2000-2500)	SSK-12.001A	850x100x1500
REGO (3000-4000-4500)	SSK-13.001A	1100x100x1800
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) H	SSK-04.001A	740x100x2655

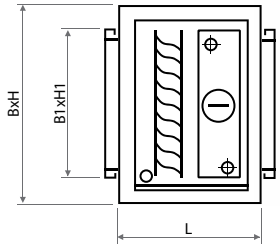
Note: Standard frame is 100 mm height, without feet, painted RAL 7035.



Accessories

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.



Air handling unit size	Cooler's type	Supply air volume, m^3/h	Air temper. in/out, °C	Internal fluid	Capacity, kW	Air pressure drop, Pa	BxHxL, mm	B1xH1, mm	Tubes connec–tions	Weight, kg
REGO/RECU400	DCF-0,4-3	400	30/18	R410A	2,82	38	605x540x390	300x400	12/22	53
	DCW-0,4-2	400	30/18	water 6/12	2,01	34	505x540x390	300x400	1/2″	45
REGO 500	DCF-0,5-4	500	30/18	R410A	3,47	33	600x540x390	400x300	12/22	52
	DCW-0,5-3	500	30/18	water 6/12	2,69	28	600x540x390	400x300	1/2″	51
REGO/RECU 700	DCF-0,7-5	700	30/18	R410A	4,92	43	705x600x390	500x400	16/22	63
	DCW-0,7-4	700	30/18	water 6/12	3,77	33	705x600x390	500x400	1/2″	62
REGO/RECU 900	DCF-0,9-6	900	30/18	R410A	6,21	54	705x600x390	500x400	16/22	63
	DCW-0,9-5	900	30/18	water 6/12	4,67	32	705x600x390	500x400	1/2″	62
REGO/RECU 1200	DCF-1,2-8	1200	30/18	R410A	8,11	83	705x600x390	500x400	16/22	63
	DCW-1,2-6	1200	30/18	water 6/12	5,96	58	705x600x420	500x400	3/4″	66
REGO/RECU 1600	DCF-1,6-11	1600	30/18	R410A	11,38	108	755x600x420	500x400	16/28	71
	DCW-1,6-10	1600	30/18	water 6/12	10,14	104	755x600x420	500x400	3/4″	70
REGO/RECU 2000	DCF-2,0-14	2000	30/18	R410A	14,36	96	920x600x420	700x400	16/28	83
	DCW-2,0-13	2000	30/18	water 6/12	13,34	86	920x600x420	700x400	3/4″	81
REGO 2500	DCF-2,5-18	2500	30/18	R410A	18,14	82	1080x660x420	800x400	22/28	101
	DCW-2,5-18	2500	30/18	water 6/12	17,63	82	1080x660x420	800x400	3/4″	87
REGO/RECU 3000	DCF-3,0-22	3000	30/18	R410A	21,45	102	1080x660x420	800x400	22/28	101
	DCW-3,0-19	3000	30/18	water 6/12	19,37	92	1080x660x420	800x400	1″	97
REGO/RECU 4000	DCF-4,0-29	4000	30/18	R410A	28,72	91	1220x720x420	900x500	28/35	119
	DCW-4,0-26	4000	30/18	water 6/12	26,25	93	1220x720x420	900x500	1″	115
REGO/RECU 4500	DCF-4,5-32	4500	30/18	R410A	32,07	105	1220x780x420	900x600	35/35	126
	DCW-4,5-31	4500	30/18	water 6/12	31,30	108	1220x780x420	900x600	1″	123
REGO/RECU 7000	DCF-7,0-35	7000	30/21	R410A	2x17,6	126	1500x780x480	1200x600	2x22/2x28	156
	DCW-7,0-47	7000	30/18	water 6/12	46,5	140	1500x780x420	1200x600	1 ½″	147
OTK 700P	DCF-0,7-5	700	30/18	R410A	4,92	43	705x600x390	500x400	16/22	63
	DCW-0,7-4	700	30/18	water 6/12	3,77	33	705x600x390	500x400	1/2″	62
OTK 1200P	DCF-1,2-8	1200	30/18	R410A	8,11	83	705x600x390	500x400	16/22	63
	DCW-1,2-6	1200	30/18	water 6/12	5,96	58	705x600x420	500x400	3/4″	66
OTK 2000P	DCF-2,0-14	2000	30/18	R410A	14,36	96	920x600x420	700x400	16/28	83
	DCW-2,0-13	2000	30/18	water 6/12	13,34	86	920x600x420	700x400	3/4″	81
OTK 3000P	DCF-3,0-22	3000	30/18	R410A	21,45	102	1080x660x420	800x400	22/28	101
	DCW-3,0-19	3000	30/18	water 6/12	19,37	92	1080x660x420	800x400	1″	97
OTK 4000P	DCF-4,0-29	4000	30/18	R410A	28,72	91	1220x720x420	900x500	28/35	119
	DCW-4,0-26	4000	30/18	water 6/12	26,25	93	1220x720x420	900x500	1″	115

Outdoor units

There are offered cooling sections of various capacities. They are used together with direct evaporation air coolers.
Outdoor units are easy in mounting and installation; ventilation units' automatic control system provides outdoor units control.

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
MOU-18HN1	5,28	15	230	R410A	54	6.35/12.7 (¼", ½")	25
MOU-24HN1	7,03	18	230	R410A	55	9.53/16.0 (⅜", ⅝")	25
MOU-36HN1	10,55	10	400	R410A	57	12.7/19.0 (½", ¾")	30
MOU-48HN1	14,1	10,5	400	R410A	59	12.7/19.0 (½", ¾")	50
MOU-60HN1	17,6	12,8	400	R410A	59	12.7/19.0 (⅜", ¾")	30

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 600-2000 ppm.

PC control function

Network module "Ping"

Network module "Ping" is intended for connection of KOMFOVENT air handling units 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: 0-100/150/300/500/1000/1600/ 2500 Pa.

Control system

Integrated control system ensures safe operation of the air handling unit, controls preset ventilation system parameters, and optimize unit operating costs. KOMFOVENT C3 controllers are used in KOMFOVENT KOMPAKT series air handling units.

KOMFOVENT C3

Advantages:

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

Operating conditions:

- Main board ambient temperature range – from -20 to +45°C, humidity range – to 90%.
- Control panel ambient temperature range – from 0 to +40°C, humidity range – to 80%.

Controller basic specifications:

- Supply voltage – 230 V/50 Hz.
- Power – 12 W.
- Inputs: analog – 8, digital – 8, pressure – 2.
- Outputs: analog – 5, triac – 3, digital – 8.
- Dimensions of remote control panel – 156x79x26 mm.
- Standard cable length – 10 m.

Air handing unit automatic control system KOMFOVENT C3 set:

- **Control panel**

  The control panel may be installed in any user-convenient place. Control panel LCD display enables to monitor various parameters and the sensitive buttons allow setting operation modes of the unit by soft touching. Cable length up to 150 m.

- **Sensors**

  For ventilation process control: supply air temperature sensor, exhaust air temperature sensor, outdoor temperature sensor, sensor of rotary heat exchanger, sensor of plate heat exchanger, return water temperature sensor.

Control System

Operating functions

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[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[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

Other functions

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
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 – for unit with 3-speed fan control this function not provided,
2 – additionally ordered function,
3 – accessories ordered additionally.

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. 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 400HE-EC	3 x 1,5
REGO 500H(V)E	3 x 1,5
REGO 700H(V)E	3 x 1,5
REGO 900H(V)E	5 x 1,5
REGO 900HW	3 x 1,5
REGO 1200H(V)E-EC	5 x 1,5
REGO 1200HW-EC	3 x 1,5
REGO 1200PE-EC	5 x 1,5
REGO 1600H(V)E-EC	5 x 1,5
REGO 1600H(V)W-EC	3 x 1,5
REGO 2000H(V)E-EC	5 x 2,5
REGO 2000H(V)W-EC	3 x 1,5
REGO 2500H(V)E-EC	5 x 2,5
REGO 2500H(V)W-EC	3 x 1,5
REGO 3000H(V)E-EC	5 x 2,5
REGO 3000H(V)W-EC	5 x 1,5
REGO 4000H(V)E-EC	5 x 6,0
REGO 4000H(V)W-EC	5 x 1,5
REGO 4500H(V)E-EC	5 x 6,0
REGO 4500H(V)W-EC	5 x 1,5
REGO 7000HW-EC	5 x 1,5

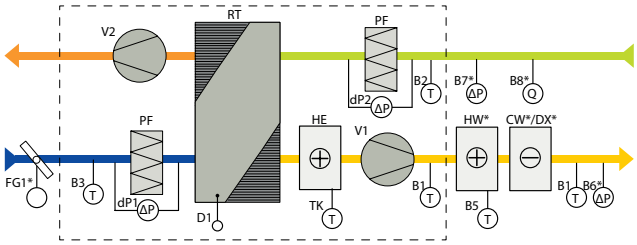
Type of the air handling unit	Electric power supply connecting cable, mm²
RECU 400H(V)E	3 x 1,5
RECU 700H(V)E	3 x 1,5
RECU 700H(V)ECF-EC	3 x 1,5
RECU 900H(V)E	5 x 1,5
RECU 1200H(V)E-EC	5 x 2,5
RECU 1200H(V)W-EC	3 x 1,5
RECU 1600H(V)E-EC	5 x 4,0
RECU 1600H(V)W-EC	3 x 1,5
RECU 2000HE-EC	5 x 10,0
RECU 2000HW-EC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

Type of the air handling unit	Electric power supply connecting cable, mm²
OTK 700P-E3	3 x 2,5
OTK 700P-E6	5 x 1,5
OTK 700P-E9	5 x 2,5
OTK 1200P-E9	5 x 2,5
OTK 1200P-E15	5 x 4,0
OTK 1200PW	3 x 1,5
OTK 2000P-E15	5 x 4,0
OTK 2000P-E22,5	5 x 10,0
OTK 2000P-E30	5 x 10,0
OTK 2000PW	3 x 1,5
OTK 3000PW-EC	5 x 1,5
OTK 4000PW-EC	5 x 1,5

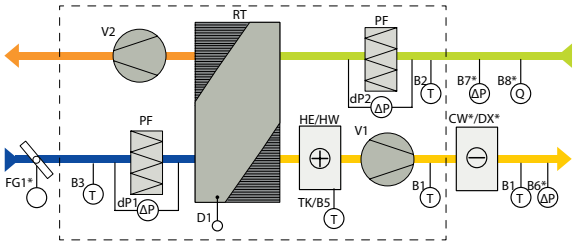
Note: In units with KOMFOVENT C3 controller, control panel connecting cable type – 4x0,22 mm².

Functional Diagrams

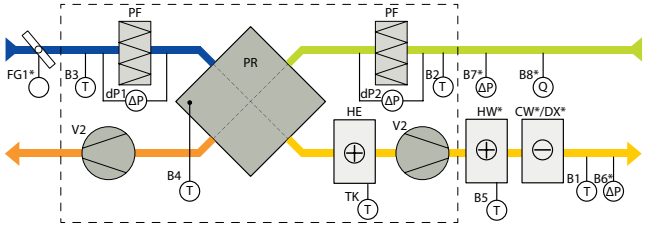
REGO 400-700



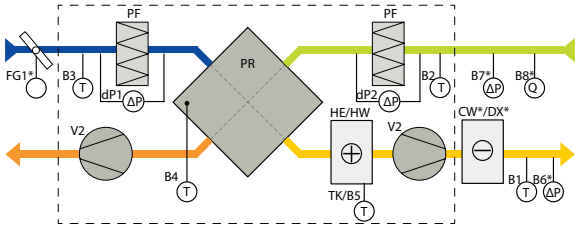
REGO 900-7000



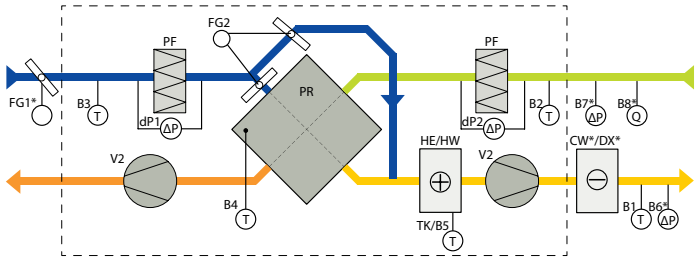
RECU 400, 700



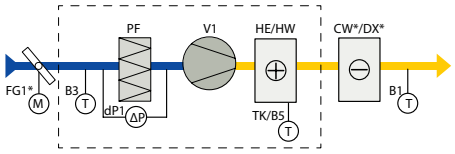
RECU 900, 1200



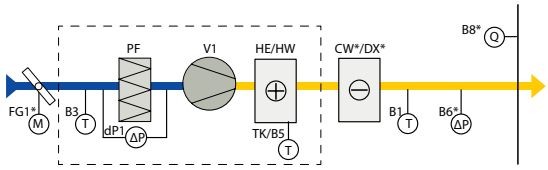
RECU 1600–7000



OTK 700–2000



OTK 3000–4000



	Description
V1	Supply air fan
V2	Exhaust air fan
HE	Electric air heater
HW	Hot water air heater
PR	Plate heat exchanger
RT	Rotary heat exchanger
PF	Air filter
B1	Supply air temperature sensor
B2	Exhaust air temperature sensor
B3	Outdoor air temperature sensor
B4	Plate heat exchanger temperature sensor
B5	Return water temperature sensor
B6*, B7*	External pressure sensor
B8*	Air quality sensor
dP1, dP2	Differential pressure sensor
D1	Rotary heat exchanger rotation sensor
FG1*	Air damper actuator
FG2	Air by-pass damper actuator
CW*	Water cooler
DX*	Cooling control
TK	Electric heater overheating protection
*	ordered additionally

– – – – schematical unit casing

Note: For the detailed unit elements location, please refer to the required unit drawing in specification.

Ordering Key

Ordering key **XXXX 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
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
Filter class

Ordering example Nr.1 **REGO 3000 H W - L - EC - C3 - M5**

AHU type: REGO – units with rotary heat exchanger
Unit size 3000
Horizontal version
Water air heater
Left inspection side
Motor type EC
Controller C3
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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2012