KOMPAKT Air Handling 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 m³/h to 8000 m³/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.

### KOMPAKT REGO
**Units with rotary heat exchanger**
Capacity range from 170 to 8000 m³/h. Efficiency factor – up to 89%.

### KOMPAKT RECU
**Units with plate heat exchanger**
Capacity range from 220 to 8000 m³/h. Efficiency factor – up to 65%.

### KOMPAKT OTK
**False ceiling supply air units**
Capacity range from 100 to 4200 m³/h. Extra compact size – height is only 350 mm and 545 mm for OTK 3000 and OTK 4000.

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.
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 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.

**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.

**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.

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), reverse the unit into the required version and choose the duct connections’ position on site. 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.

Possible connection versions of 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.

**Connection universality of KOMPAKT REGO 1600/2000/2500**

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- Big advantage of having possibility to adapt the unit duct connections directly on the site;
- Perfect solution for keeping unit in stock;
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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), reverse the unit into the required version and choose the duct connections’ position on site. 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.
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 significantly 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.

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 CO₂, 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, CO₂ 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, CO₂,

Intelligent control of equipment operation via Internet by using the specially adapted “Ping2” net module
Network module “Ping2” intended for the connection of KOMFOVENT air handling units to the internet, local computer or another network. “Ping2” module works on the bases of “Modbus” protocol and has two connection interfaces: “Ethernet” and “RS-485”.

Integrated web server allows not only to control and monitor the AHU’s operation, but also to change provided network settings. Thanks to “Ping2” module, AHU can be controlled via standard internet browser on computer or smart phone.

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.

CO₂ sensor

Integrating web server allows not only to control and monitor the AHU’s operation, but also to change provided network settings. Thanks to “Ping2” module, AHU can be controlled via standard internet browser on computer or smart phone.
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.

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.

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

Standard sizes of KOMFOVENT KOMPAKT REGO units

<table>
<thead>
<tr>
<th>Capacity (m³/h)</th>
<th>400</th>
<th>700</th>
<th>1100</th>
<th>1600</th>
<th>2100</th>
<th>2600</th>
<th>3100</th>
<th>3600</th>
<th>4100</th>
<th>4600</th>
<th>5100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow rate (m³/s)</td>
<td>0.11</td>
<td>0.22</td>
<td>0.33</td>
<td>0.44</td>
<td>0.55</td>
<td>0.67</td>
<td>0.78</td>
<td>0.89</td>
<td>1.11</td>
<td>1.22</td>
<td>1.28</td>
</tr>
</tbody>
</table>

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
To calculate SFP for AC motor use formula:
SFP = P/(fV) where P – kW and f – Hz and V – m/s.
To calculate the P for EC motor use formula:
P = SFP[V] where SFP – kW/(m3/s) and V – m/s.

<table>
<thead>
<tr>
<th>Performance ReGo 400-EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow rate (m³/h)</td>
</tr>
<tr>
<td>200</td>
</tr>
<tr>
<td>250</td>
</tr>
<tr>
<td>300</td>
</tr>
<tr>
<td>350</td>
</tr>
<tr>
<td>400</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
</tr>
<tr>
<td>Exhaust</td>
</tr>
<tr>
<td>Intake temperature, °C</td>
</tr>
<tr>
<td>11.1</td>
</tr>
<tr>
<td>11.7</td>
</tr>
<tr>
<td>12.6</td>
</tr>
<tr>
<td>13.6</td>
</tr>
<tr>
<td>15.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acoustic Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
</tr>
<tr>
<td>Intake temp, °C</td>
</tr>
<tr>
<td>23</td>
</tr>
<tr>
<td>15</td>
</tr>
<tr>
<td>10</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>0</td>
</tr>
<tr>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pressure drop</th>
</tr>
</thead>
<tbody>
<tr>
<td>M – option L – standard XL – option</td>
</tr>
</tbody>
</table>

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

To calculate the sound power \( L_{A, dB} \) in 8 octave centres\(^*\) and A-weighted\(^**\) total sound power \( L_{A, dB(A)} \) of all air duct openings of the unit (without influence of casing) also to calculate the sound pressure \( L_{P, dB} \) in 8 octave centres and A-weighted total sound pressure \( L_{P, dB(A)} \) 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 \( k_{LT} \) and \( k_{P,LT} \) must be algebraically added to the value of the closest acoustic curve of A-weighted\(^*\) total sound power \( L_{A, dB(A)} \) from the performance chart (usually of the exhaust outlet of the air handling unit) in the desired working point of the unit.

\(^*\) 8 octave centres – 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%.

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 MS class filter. As all KOMPAKT REGO units must correspond to high energy efficiency requirements, L type rotary heat exchanger of higher efficiency is used as a standard. Optional XL type rotary heat exchanger gives possibility to reach maximum efficiency of recovery. Pressure drop graph is used to check if unit performance is still in the right unit working zone, for example:

Unit is selected for 300 m³/h and 120 Pa static pressures marked by point 1 in the performance chart. To check standard unit with L type rotary working zone, calculate actual pressure 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 20) must to be added to static pressure in point 1 to get performance point of unit. So, standard unit performance has parameters at point 2 (static pressure 160 Pa for 300 m³/h, thermal efficiency 85,5%). 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

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>45 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit weight</td>
<td>48 kg</td>
</tr>
<tr>
<td>Nominal air flow</td>
<td>400 m³/h</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>1–230 V</td>
</tr>
<tr>
<td>Minimal operating current</td>
<td>6.2 A</td>
</tr>
<tr>
<td>Paint color</td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Control system</td>
<td>KOMFOVENT C3</td>
</tr>
</tbody>
</table>

**REGO 400H**

- Design:
  1. Rotary heat exchanger
  2. Electric air heater
  3. Supply air heater
  4. Exhaust air heater
  5. Supply fan
  6. Exhaust fan
  7. Automatic control devices
  8. Main cable (L=1.5 m)

**Accessories**

- Outdoor intake
- Supply air
- Extract indoor
- Exhaust air

**Acoustic Data**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rego 400 HE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Supply Inlet: -9 dB
- Supply Outlet: -2 dB
- Exhaust Inlet: -7 dB
- Exhaust Outlet: -2 dB
- Surrounding (3pl., 3m): -24 dB

- **Temperature Efficiency**
  - Supply: -23°C
  - Exhaust: -19°C

- **Pressure Drop**
  - Supply: 0.12 Pa
  - Exhaust: 0.25 Pa

**UAB AMALVA** reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.
KOMPAKT REGO 500

Panel thickness 45 mm
Unit weight V/H 140/90 kg
Nominal air flow 500 m³/h
Supply voltage 1~ 230V
Maximal operating current EC/AC 6.9/5.8A
Paint color RAL 7035
Control system KOMFOVENT C3

REGO 500H

Accessories

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REGO 500V

Air flow rate (m³/s)

Supply / exhaust filter class En779:2011 M5/F7*

Filter panel

Dimensions الحال 540x260x46 mm

Fans Motors EC/AC

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

Electric Air Heater

Capacity 1 kW
Air temperature, Δt 6°C

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 16.3

Acoustic Data

Performance REGO 500-AC

Acoustic Data

Supply Inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply Outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust Inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Exhaust Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m, 3m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Performance REGO 500-AC

Performance REGO 500-EC

Air flow rate (m³/s)

Pressure drop

Supply inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust inlet -11 -10 -9 -8 -7 -6 -5 -4 -3 -4
Exhaust outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Acoustic Data

63 125 250 500 1k 2k 4k 8k dB(A)

REGO 500 VE-EC

Supply Inlet -10 -9 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply Outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust Inlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust Outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Surrounding (l, m, 3m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

REGO 500 VE-AC

Supply Inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply Outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust Inlet -11 -10 -9 -8 -7 -6 -5 -4 -3 -4
Exhaust Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m, 3m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

REGO 500 HE-EC

Supply Inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Supply Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Exhaust Inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Exhaust Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m, 3m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

REGO 500 HE-AC

Supply Inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Supply Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Exhaust Inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Exhaust Outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m, 3m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Performance REGO 500-EC

Air flow rate (m³/s)

Pressure drop

Supply inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust inlet -9 -8 -7 -6 -5 -4 -3 -2 -1 -2
Exhaust outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Acoustic Data

63 125 250 500 1k 2k 4k 8k dB(A)

Fire resistance

Performance REGO 500-AC

Performance REGO 500-EC

Air flow rate (m³/s)

Pressure drop

Supply inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust inlet -11 -10 -9 -8 -7 -6 -5 -4 -3 -4
Exhaust outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Acoustic Data

63 125 250 500 1k 2k 4k 8k dB(A)

Performance REGO 500-EC

Air flow rate (m³/s)

Pressure drop

Supply inlet -10 -9 -8 -7 -6 -5 -4 -3 -2 -1
Supply outlet -8 -7 -6 -5 -4 -3 -2 -1 -0 -1
Exhaust inlet -11 -10 -9 -8 -7 -6 -5 -4 -3 -4
Exhaust outlet -7 -6 -5 -4 -3 -2 -1 -0 -1 -2
Surrounding (l, m) -24 -21 -18 -15 -12 -9 -6 -3 -0 -3

Acoustic Data

63 125 250 500 1k 2k 4k 8k dB(A)

Privacy policy
**KOMPAKT REGO 700**

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>45 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal air flow</td>
<td>700 m³/h</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>1-230V</td>
</tr>
<tr>
<td>Paint color</td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Control system</td>
<td>KOMFOVENT C2</td>
</tr>
</tbody>
</table>

**Accessories**

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**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>EN779:2011 MS/F7*</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Fans Motors EC/AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input power</td>
</tr>
<tr>
<td>Rotation speed</td>
</tr>
<tr>
<td>Protection level, IEC 34-5</td>
</tr>
</tbody>
</table>

**Electric Air Heater**

Capacity 2 kW

Air temperature, °C 8.6°C

**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**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>Wa (dB(A))</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 700 VE-EC</td>
<td>10</td>
<td>9.5</td>
<td>12</td>
<td>15</td>
<td>19</td>
<td>23</td>
<td>28</td>
<td>35</td>
<td>92</td>
</tr>
<tr>
<td>REGO 700 VE-AC</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>14</td>
<td>20</td>
<td>25</td>
<td>31</td>
<td>39</td>
<td>92</td>
</tr>
<tr>
<td>REGO 700 HE-EC</td>
<td>8</td>
<td>7</td>
<td>6.5</td>
<td>10</td>
<td>15</td>
<td>19</td>
<td>24</td>
<td>31</td>
<td>48</td>
</tr>
<tr>
<td>REGO 700 HE-AC</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>14</td>
<td>20</td>
<td>25</td>
<td>31</td>
<td>39</td>
<td>92</td>
</tr>
</tbody>
</table>

**Pressure drop**

<table>
<thead>
<tr>
<th>Pressure drop (Pa)</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>800</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2, 3 – speed; * – fan power is shown for one fan motor; Performance data: filter MS, rotary heat exchanger – M. Correction factor for CE/EC approximately 15 Pa at 700 m³/h. Correction factor for F7 class filter approximately – 70 Pa.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Panel**

**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 left**

**Shown as right**

<table>
<thead>
<tr>
<th>A</th>
<th>Outdoor intake</th>
<th>B</th>
<th>Supply air</th>
<th>C</th>
<th>Extract indoor</th>
<th>D</th>
<th>Exhaust air</th>
</tr>
</thead>
</table>

**Outdoor intake**

**Supply air**

**Extract indoor**

**Exhaust air**

---

*The photo is intended for informational purposes only, exact details may vary.*
KOMPAKT REGO 900

Panel thickness 45 mm
Unit weight V/H 175/165 kg
Nominal air flow 900 m³/h
Supply voltage (E) 3~ 400 V
Supply voltage (W) 1~ 230 V
Maximal operating current EC/AC (E) 2,75 A
Maximal operating current EC/AC (W) 6,6 A
Nominal air flow 900 m³/h
Dimensions for horizontal units beehive 700x32x96 mm
Dimensions for vertical units beehive 550x28x136 mm

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

Accessories
Supply voltage (E) 3~ 400 V
Supply voltage (W) 1~ 230 V
Control system KOMFOnET C3
Paint color RAL 7035
Maximal operating current EC/AC (hW) 6,1/2,75 A
Maximal operating current EC/AC (E) 10,2/6,6 A

ReGo 900H

Supply Motors EC/AC
Input power 395/310 W
Rotation speed 2400/2725 rpm
Protection level EC 34-5 IP 44/54

Electric Air Heater
Capacity 3 kW
Air temperature, Δt 10°C

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
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/WH-out/WH, °C 11-20 11-20 11-20 11-20 30/10-18/80

Air Filters. Supply / Exhaust
Filter class EN779:2011 M5/F7*
Type Panel Bag filter
Dimensions for horizontal units beehive 700x32x96 mm
Dimensions for vertical units beehive 550x28x136 mm

Performance REGO 900-EC

Air flow rate (m³/h)
Supply Exhaust
ReGo 900-EC 500 600 700 800 900 1000 1100

Acoustic Data

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

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

Accessories

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

In hW units water heater is integrated, for vW use duct heater Dh temperature efficiency
Surrounding (3pl., 3m) -26 -22 -24 -20 -12 -7 -2 0,0
Exhaust Outlet -8 -3 -0 -6 -12 -17 -21 0,0
Exhaust Inlet -13 -10 -7 -6 -11 -16 -20 -5,3
Supply Outlet -9 -6 -3 -1 -6 -11 -16 -20 -25 -5,3
Exhaust Outlet -9 -6 -3 -1 -6 -11 -16 -20 -25 -5,3
Exhaust Outlet -9 -6 -3 -1 -6 -11 -16 -20 -25 -5,3
Exhaust Outlet -9 -6 -3 -1 -6 -11 -16 -20 -25 -5,3
Surrounding (rpm, 3m) 7-16 11-15 12-17 18-22 23-28 30-35 40-45 50-55 60-65 70-75

REGO 900 V-EC
Supply Inlet -11 -9 -9 -9 -13 -14-17 22-26 -27,7
Supply Outlet -9 -7 -5 4 -7 -13 -14 -16 -20 -24
Exhaust Inlet -12 -13 -12 -14 -19 -23 -28 -32 -37 -42
Exhaust Outlet -9 -10 -8 -9 -11 -15 -18 -22 -26 -30
Surrounding (rpm, 3m) 25-31 32-41 33-48 44-54 56-66

REGO 900 H-EC
Supply Inlet -10 -8 -6 -6 -11 -16 -20 -25 -5,3
Supply Outlet -9 -7 -5 -6 -11 -16 -20 -25 -5,3
Exhaust Inlet -10 -7 -6 -6 -11 -16 -20 -25 -5,3
Exhaust Outlet -9 -8 -6 -6 -11 -16 -20 -25 -5,3
Surrounding (rpm, 3m) 25-31 32-41 33-48 44-54 56-66

REGO 900 V-AC
Supply Inlet -12 -10 -10 -10 -14 -20 -25 -31 -9,2
Supply Outlet -10 -8 -6 -6 -11 -16 -20 -25 -5,3
Exhaust Outlet -9 -2 0 0 -5 -12 -17 -21 -0,0
Surrounding (rpm, 3m) 26-32 32-42 33-48 44-54 56-66

REGO 900 H-AC
Supply Inlet -11 -8 -6 -6 -12 -17 -24 -29 -6,6
Supply Outlet -9 -7 -5 -6 -11 -16 -20 -25 -5,3
Exhaust Inlet -11 -8 -6 -6 -12 -17 -24 -29 -6,6
Exhaust Outlet -9 -8 -6 -6 -12 -17 -24 -29 -6,6
Exhaust Outlet -9 -8 -6 -6 -12 -17 -24 -29 -6,6
Surrounding (rpm, 3m) 26-32 32-42 33-48 44-54 56-66

Pressure drop

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Electric Air Heater</th>
<th>Water Temperature, °C</th>
<th>Connection, °</th>
<th>Performance REGO 900-AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,95</td>
<td>1/2</td>
<td>Winter</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
</tr>
<tr>
<td>2,95</td>
<td>1/2</td>
<td>Summer</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
</tr>
</tbody>
</table>

* Option

Winter Summer

Supply exhaust

Temp. efficiency (%) Pressure drop (Pa)

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Electric Air Heater</th>
<th>Water Temperature, °C</th>
<th>Connection, °</th>
<th>Performance REGO 900-AC</th>
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<tr>
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<tr>
<td>2,95</td>
<td>1/2</td>
<td>Summer</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
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</tbody>
</table>

* Option

Winter Summer

Supply exhaust

Temp. efficiency (%) Pressure drop (Pa)

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Electric Air Heater</th>
<th>Water Temperature, °C</th>
<th>Connection, °</th>
<th>Performance REGO 900-AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,95</td>
<td>1/2</td>
<td>Winter</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
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<tr>
<td>2,95</td>
<td>1/2</td>
<td>Summer</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
</tr>
</tbody>
</table>

* Option

Winter Summer

Supply exhaust

Temp. efficiency (%) Pressure drop (Pa)

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Electric Air Heater</th>
<th>Water Temperature, °C</th>
<th>Connection, °</th>
<th>Performance REGO 900-AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,95</td>
<td>1/2</td>
<td>Winter</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
</tr>
<tr>
<td>2,95</td>
<td>1/2</td>
<td>Summer</td>
<td>1/2</td>
<td>40/80 50/70 60/90</td>
</tr>
</tbody>
</table>

* Option

Winter Summer

Supply exhaust

Temp. efficiency (%) Pressure drop (Pa)
KOMPAKT REGO 1200

Panel thickness
45 mm
Unit weight V/H
180/170 kg
Nominal air flow
1200 m³/h
Supply voltage (E)
3–400 V
Supply voltage (W)
1–230 V
Maximal operating current (E)
12.3 A
Maximal operating current (W)
6.1 A
Paint color
RAL 7035
Control system
KOMFOVENT C3

Accessories

Air Filters. Supply / Exhaust
Filter class
EN779:2011 M5/F7*
Type
Panel/Bag filter
Dimensions for horizontal units (b/h/l)
700x325x96 mm
Dimensions for vertical units (b/h/l)
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

Temperature efficiency
Supply
Exhaust
Intake temperature, °C
-23 -15 -10 -5 0 5 20
Supply temperature, °C
9.3 11 12.1 13.2 14.3

Changeover air to water heat exchanger, HW
Winter
Summer
Water temperature
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 8

Pressurization
1/2

Temperature in/Rh–out/Rh, °C/%
9.3–20
9.3–20
9.3–20
9.3–20
30/50–18/80

Acoustic Data
Noise data
REGO 1200 V
REGO 1200 H
Supply Inlet
-10 -9 -9 -8 -12 -16 -20 -24 -6.9
Supply Outlet
-8 -5 -4 -6 -12 -15 -19 -23 -2,1
Exhaust Inlet
11 -7 -6 -7 -11 -14 -17 -21 -25 -8.0
Exhaust Outlet
2 -2 -1 -1 -5 -10 -14 -17 0.0
Surrounding (3pl., 3m)
-24 -21 -21 -28 -31 -36 -41 -45 -24.8

REGO 1200 V
Supply Inlet
-9 -7 -6 -10 -15 -19 -23 -4,8
Supply Outlet
1 -1 -1 -1 -7 -11 -14 -21 -2,1
Exhaust Inlet
9 -7 -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

Pressure drop
REGO 1200 V
REGO 1200 H
Supply Inlet
1 k 2 k 4 k 8 k dB(A)
Supply Outlet
1 k 2 k 4 k 8 k dB(A)
Exhaust Inlet
1 k 2 k 4 k 8 k dB(A)
Exhaust Outlet
1 k 2 k 4 k 8 k dB(A)

Performance REGO 1200-EC

UAB AMALVA reserves the right to introduce the changes of parameters and size in the process of improvement of the air handling units.
**KOMPAKT REGO 1200**

Panel thickness 45 mm  
Unit weight 120 kg  
Nominal airflow 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.

**REGO 1200PE**

- Rotary heat exchanger
- Electric air heater
- Supply air filter
- Exhaust air filter
- Supply fan
- Exhaust fan
- Automatic control devices
- Main switch

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. 76
- p. 77
- p. 78
- p. 79
- p. 80
- p. 81
- p. 82

---

**UAB AMALVA** reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

---

**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>EN779:2011 M5/F7*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Panel</td>
</tr>
<tr>
<td>Dimensions lxhxl</td>
<td>410x420x46 mm</td>
</tr>
</tbody>
</table>

**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

**Temperature efficiency**

<table>
<thead>
<tr>
<th>Intake temperature, °C</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>-23</td>
<td>-15</td>
<td>-5</td>
</tr>
<tr>
<td>-10</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>7,7</td>
<td>10,2</td>
</tr>
<tr>
<td>12</td>
<td>12,3</td>
<td></td>
</tr>
</tbody>
</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th>Frequency, Hz</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 1200 PE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-9</td>
<td>-7</td>
<td>-6</td>
<td>-6</td>
<td>-10</td>
<td>-15</td>
<td>-19</td>
<td>-23</td>
<td>-4,8</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-14</td>
<td>-17</td>
<td>0,0</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-9</td>
<td>-7</td>
<td>-6</td>
<td>-6</td>
<td>-10</td>
<td>-15</td>
<td>-19</td>
<td>-23</td>
<td>-4,8</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-10</td>
<td>-14</td>
<td>-17</td>
<td>0,0</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-24</td>
<td>-21</td>
<td>-21</td>
<td>-28</td>
<td>-31</td>
<td>-36</td>
<td>-41</td>
<td>-45</td>
<td>-24,8</td>
</tr>
</tbody>
</table>

**Pressure drop**

<table>
<thead>
<tr>
<th>Pressure drop (Pa)</th>
<th>0</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
</tr>
</thead>
<tbody>
<tr>
<td>M – option</td>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
</tr>
<tr>
<td>L – standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XL – option</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Performance REGO 1200PE-EC**

- 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.

---

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### Accessories

- **Panel thickness**: 45 mm
- **Unit weight**: 270 kg
- **Nominal air flow**: 1600 m³/h
- **Supply voltage (E)**: 3~400 V
- **Maximal operating current (E)**: 12.4 A
- **Maximal operating current (W)**: 6.4 A
- **Paint color**: RAL 7035
- **Control system**: KOMFOVENT C3

---

**Air Filters. Supply / Exhaust**

**Filter class**: EN779:2011 M5/F7*

**Type**: Panel

**Dimensions incl. fan**: 800x450x46 mm

### Fans Motors EC

- **Input power**: 420 W
- **Rotation speed**: 2600 rpm
- **Protection level, IEC 60721**: IP 54

### Electric Air Heater

- **Capacity**: 4.5 kW
- **Air temperature, AT**: 8.6°C

### Temperature efficiency

#### Supply / Exhaust

<table>
<thead>
<tr>
<th>Intake temperature, °C</th>
<th>23</th>
<th>15</th>
<th>10</th>
<th>5</th>
<th>0</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply temperature, °C</td>
<td>9.6</td>
<td>11.4</td>
<td>12.2</td>
<td>13.3</td>
<td>14.5</td>
<td></td>
</tr>
</tbody>
</table>

### Changeover air to water heat exchanger, HW

#### Water temperature

<table>
<thead>
<tr>
<th>Fluid:</th>
<th>Winter</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water in °C</td>
<td>90/70</td>
<td>80/60</td>
</tr>
<tr>
<td>Water out °C</td>
<td>45/35</td>
<td>35/25</td>
</tr>
</tbody>
</table>

#### Flow rate

| Flow rate, m³/h | 371 | 373 | 370 | 744 | 1883 | 1640 |

#### Pressure drop

| Pressure drop, kPa | 0.2 | 0.2 | 0.3 | 1 | 5.6 | 4.4 |

#### Temperature

| 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

- **Supply Inlet**: -12 -12 -12 -12 -14 -19 -24 -28 -10.0
- **Supply Outlet**: -8 -2 -1 -1 -5 -11 -15 -18 -0.0
- **Exhaust Inlet**: -12 -12 -12 -12 -14 -19 -23 -28 -9.0
- **Exhaust Outlet**: -8 -2 -1 -1 -5 -11 -15 -18 -0.0

**REGO 1600 VE**

| Surrounding (3pl., 3m) | -25 -21 -22 -29 -33 -38.44 | -48 | -26.7 |

**REGO 1600 HE**

| Surrounding (3pl., 3m) | -25 -21 -22 -29 -33 -38.44 | -48 | -26.7 |

**REGO 1600 VW**

| Surrounding (3pl., 3m) | -25 -21 -22 -29 -33 -38.44 | -48 | -26.7 |

**REGO 1600 HW**

| Surrounding (3pl., 3m) | -25 -21 -22 -29 -33 -38.44 | -48 | -26.7 |

---

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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 C

REGO 2000H

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

REGO 2000V

Accessories

Air Filters. Supply / Exhaust
Filter class: EN779:2011 M5/F7
Type: Panel
Dimensions in mm: 800x450x46 mm

Fans Motors EC
Input power: 480 W
Rotation speed: 2770 rpm
Protection level, IEC 603-5: IP 54

Electric Air Heater
Capacity: 7.5 kW
Air temperature, Δt: 11°C

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

Pressure drop (Pa)

Acoustic Data
63 125 250 500 1k 2k 4k 8k 16k (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 -3.8
Exhaust Outlet -7 -2 -1 -1 -5 -10 -14 -17 -0.0
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0

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 -6 -4 -4 -8 -12 -16 -20 -1.8
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0

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 -15 -11 -12 -11 -13 -17 -21 -25 -8.0
Exhaust Outlet -7 -2 -1 -1 -5 -10 -14 -17 -0.0
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0

Performance REGO 2000-EC
Air flow rate (m³/h)

Pressure drop

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

Changeover air to water heat exchanger, HW

Water temperature inlet, °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

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Accessories

Air filters. Supply / exhaust
Filter class: En779:2011 M5/F7
Type: Panel
Dimensions in mm: 800x450x46 mm

Fans Motors EC
Input power: 480 W
Rotation speed: 2770 rpm
Protection level, IEC 603-5: IP 54

Electric Air Heater
Capacity: 7.5 kW
Air temperature, Δt: 11°C

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

Pressure drop (Pa)

Acoustic Data
63 125 250 500 1k 2k 4k 8k 16k (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 -3.8
Exhaust Outlet -7 -2 -1 -1 -5 -10 -14 -17 -0.0
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0

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 -6 -4 -4 -8 -12 -16 -20 -1.8
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0

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 -15 -11 -12 -11 -13 -17 -21 -25 -8.0
Exhaust Outlet -7 -2 -1 -1 -5 -10 -14 -17 -0.0
Surrounding (1pl., 3m): 24 -21 -21 -28 -31 -36 -41 -45 -24.0
UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

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Accessories

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

**KOMPAKT REGO 2500**

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

**REGO 2500H**

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

**REGO 2500V**

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

**Accessories**

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

**Acoustic Data**

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</table>
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) 4,5 A
Paint color RAL 7035
Control system KOMFOVENT C3

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Accessories

3532

Air flow rate (m³/s)
Air flow rate (m³/h)
Static pressure (Pa)
Temperature efficiency
Pressure drop

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
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<th>Pressure drop (Pa)</th>
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<th>Temperature efficiency</th>
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<td>9,3 11,1 12,1 13,3 14,5</td>
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</table>

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
Surrounding (3pl., 3m) -26 -22 -20 -18 -16 -14 -12 -10 -8 -6 -4 -2 -0 2

Acoustic Data

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<th>Frequency (Hz)</th>
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<th>500</th>
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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 3000 m³/h. Correction factor for f7 class filter approximately – 70 Pa.

Air flow rate (m³/h)

Performance REGO 3000-EC

Air flow rate (m³/h)

Pressure drop

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M - option, L - standard, XL - option

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Accessories

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

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

Shown as left

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

Frequency dB(A) 63 125 250 500 1k 2k 4k 8k
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 -16.5
 Exhaust Inlet -13 -12 -14 -13 -15 -20 25 -30 -16
 Exhaust Outlet -8 -2 -1 -1 -5 -12 16 -20 -16
Surrounding (lpA, 3m) -26 -22 -23 -30 -44 -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 -16.5
 Exhaust Inlet -10 -7 -6 -6 -12 -17 22 -27 -5.8
 Exhaust Outlet -8 -2 -1 -1 -5 -12 16 -20 -16
Surrounding (lpA, 3m) -26 -22 -23 -30 -44 -47 -51 -27.4
REGO 4000 VW
Supply Outlet -8 -2 -1 -1 -5 -12 16 -20 -16.5
 Exhaust Inlet -13 -12 -14 -13 -15 -20 -25 -30 -11.0
 Exhaust Outlet -8 -2 -1 -1 -5 -12 16 -20 -16
Surrounding (lpA, 3m) -26 -22 -23 -30 -44 -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 -16.5
 Exhaust Inlet -10 -7 -6 -6 -12 -17 -22 -27 -5.8
 Exhaust Outlet -8 -2 -1 -1 -5 -12 16 -20 -16
Surrounding (lpA, 3m) -26 -22 -23 -30 -44 -47 -51 -27.4

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

Pressure drop

Performance REGO 4000-EC

Air flow rate (m³/h) 1000 2000 3000 4000 5000 6000
Air flow rate (m³/s) 0.03 0.06 0.12 0.25 0.5 1
Power, kW 10 20 31.1 41.8 52.6 63.4
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
**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)** 8.0 A  
**Paint color** RAL 7035  
**Control system** KOMPONT C3

**Accessories**

- 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) 8.0 A
- Paint color RAL 7035
- Control system KOMPONT C3

---

**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bag filter</td>
<td>EN779:2011 M5/F7*</td>
</tr>
</tbody>
</table>

**Fans Motors EC**

- **Type** Bag filter
- **Dimensions in mm** 800x490x300 mm

**Electric Air Heater**

- **Capacity** 15 kW
- **Air temperature, °C** 9,8°C

**Temperature efficiency**

<table>
<thead>
<tr>
<th>Intake temperature, °C</th>
<th>Supply temperature, °C</th>
<th>Exhaust temperature, °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>-23</td>
<td>9.2</td>
<td>6.3/31</td>
</tr>
<tr>
<td>-15</td>
<td>11.2</td>
<td>6.3/27</td>
</tr>
<tr>
<td>-10</td>
<td>13.5</td>
<td>6.3/24</td>
</tr>
<tr>
<td>-6</td>
<td>14.7</td>
<td>6.3/20</td>
</tr>
</tbody>
</table>

**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, °C** 1
- **Supply/Exhaust temperature, °C** 9.2 11 12.3 13.5 14.7

**Acoustic Data**

<table>
<thead>
<tr>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-32</td>
<td>-36</td>
<td>-43</td>
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**REGO 4500 HE**

<table>
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<th>2k</th>
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<th>8k</th>
<th>dB(A)</th>
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</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
<td>-11</td>
<td>-8</td>
<td>-6</td>
<td>-12</td>
<td>-19</td>
<td>-24</td>
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<tr>
<td>Supply Outlet</td>
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<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-11</td>
<td>-8</td>
<td>6</td>
<td>6</td>
<td>-12</td>
<td>-18</td>
<td>24</td>
<td>29</td>
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<tr>
<td>Exhaust Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-32</td>
<td>-36</td>
<td>-43</td>
<td>-50</td>
<td>-55</td>
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</table>

**REGO 4500 HW**

<table>
<thead>
<tr>
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<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>-14</td>
<td>-16</td>
<td>-15</td>
<td>-18</td>
<td>-23</td>
<td>-29</td>
<td>-36</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>17</td>
<td>21</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-32</td>
<td>-36</td>
<td>-43</td>
<td>-50</td>
<td>-55</td>
</tr>
</tbody>
</table>

---

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

**Panel accessories**

- Bag filter
- Exhaust air filter
- Supply air filter
- Main switch
- Fluid connection tube only for W

---

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The photo is intended for informational purposes only, exact details may vary.
KOMPAKT REGO 7000

Panel thickness 45 mm
Unit weight 780 (270/250/280) kg
Nominal air flow 7000 m³/h
Supply voltage 3–400V
Maximum operating current 9.9 A
Paint color RAL 7035
Control system KOMFOVENT C3

REGO 7000H

Air Filters. Supply / Exhaust
Filter class EN779:2011 ML/F7*
Type Bag filter
Dimensions LxWxH 592x592-126x835 mm
Quantity 2 pcs.

Fans Motors EC
Input power 2730 W
Rotation speed 2040 rpm
Protection level, IEC 34-5 IP 54
*Option

Temperature efficiency
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 1280
Pressure drop, kPa 14.58
Connection, ° 3/4
Temperature in-out, °C 9/21

Acoustic Data

<table>
<thead>
<tr>
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<th>1k</th>
<th>2k</th>
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<th>dB(A)</th>
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<tbody>
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<td>1k</td>
<td>2k</td>
<td>4k</td>
<td>8k</td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-12</td>
<td>-8</td>
<td>-7</td>
<td>-8</td>
<td>-14</td>
<td>-20</td>
<td>-26</td>
<td>-33</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>-17</td>
<td>-21</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-11</td>
<td>-8</td>
<td>-6</td>
<td>-12</td>
<td>-18</td>
<td>-24</td>
<td>-29</td>
<td>-32</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-8</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>-5</td>
<td>-12</td>
<td>-17</td>
<td>-21</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-32</td>
<td>-43</td>
<td>-50</td>
<td>-55</td>
<td>-28.3</td>
</tr>
</tbody>
</table>

Paint color RAL 7035

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

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
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.

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.

• 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
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.
For the conditions when outdoor temperatures may be lower than -10°C, duct mounted preheater is recommended.
Note: The water trap must be installed for condensate drain!

Standard sizes of KOMFOVENT KOMPAKT RECU units

<table>
<thead>
<tr>
<th>0</th>
<th>0,11</th>
<th>0,22</th>
<th>0,33</th>
<th>0,44</th>
<th>0,55</th>
<th>0,67</th>
<th>0,78</th>
<th>0,89</th>
<th>1</th>
<th>1,11</th>
<th>1,22</th>
<th>1,28</th>
<th>2,2 m³/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>7000</td>
<td>4000</td>
<td>2500</td>
<td>2000</td>
<td>1600</td>
<td>1200</td>
<td>700</td>
<td>500</td>
<td>400</td>
<td>300</td>
<td>250</td>
<td>200</td>
<td>100</td>
<td>60</td>
</tr>
</tbody>
</table>

-23°C
+1°C
Outdoor intake B Supply air C Extract indoor D Exhaust air
* temperature after the heat exchanger

UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.
KOMPAKT RECU 400

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

### RECU 400H

- **Outdoor intake**
- **Supply air**
- **Extract indoor**
- **Exhaust air**

**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 left**

**Shown as right**

### RECU 400V

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

### Accessories
- p. 73
- p. 74
- p. 75
- p. 76
- p. 77
- p. 78
- p. 79
- p. 80
- p. 82

---

**Performance RECU 400-AC**

**Air flow rate (m³/h)**

**Acoustic Data**

<table>
<thead>
<tr>
<th>Freq (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>16k</th>
<th>32k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wa/dB(A)</td>
<td>60</td>
<td>61</td>
<td>62</td>
<td>63</td>
<td>64</td>
<td>65</td>
<td>66</td>
<td>67</td>
<td>68</td>
<td>69</td>
</tr>
</tbody>
</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th>RECU 400 VE-AC</th>
<th>Supply Inlet</th>
<th>-10</th>
<th>-9</th>
<th>-8</th>
<th>-7</th>
<th>-6</th>
<th>-5</th>
<th>-4</th>
<th>-3</th>
<th>-2</th>
<th>-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Outlet</td>
<td>-8</td>
<td>-9</td>
<td>-10</td>
<td>-11</td>
<td>-12</td>
<td>-13</td>
<td>-14</td>
<td>-15</td>
<td>-16</td>
<td>-17</td>
<td>-18</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-10</td>
<td>-9</td>
<td>-8</td>
<td>-7</td>
<td>-6</td>
<td>-5</td>
<td>-4</td>
<td>-3</td>
<td>-2</td>
<td>-1</td>
<td>-0</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-11</td>
<td>-10</td>
<td>-9</td>
<td>-8</td>
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<td>-6</td>
<td>-5</td>
<td>-4</td>
<td>-3</td>
<td>-2</td>
<td>-1</td>
</tr>
<tr>
<td>Surrounding (1pl., 3pl.)</td>
<td>-24</td>
<td>-21</td>
<td>-21</td>
<td>-21</td>
<td>-21</td>
<td>19</td>
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<td>13</td>
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**Performance RECU 400-EC**

**Air flow rate (m³/h)**

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<th>Freq (Hz)</th>
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<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>16k</th>
<th>32k</th>
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</thead>
<tbody>
<tr>
<td>Wa/dB(A)</td>
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<td>61</td>
<td>62</td>
<td>63</td>
<td>64</td>
<td>65</td>
<td>66</td>
<td>67</td>
<td>68</td>
<td>69</td>
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</table>

**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>EN/779:2011 MS/F7*</th>
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</thead>
<tbody>
<tr>
<td>Type</td>
<td>Plate</td>
</tr>
<tr>
<td>Dimensions (in)</td>
<td>500x159x46 mm</td>
</tr>
</tbody>
</table>

**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

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>7,6</td>
</tr>
</tbody>
</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th>Freq (Hz)</th>
<th>63</th>
<th>125</th>
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<th>500</th>
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<th>4k</th>
<th>8k</th>
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<tbody>
<tr>
<td>Wa/dB(A)</td>
<td>60</td>
<td>61</td>
<td>62</td>
<td>63</td>
<td>64</td>
<td>65</td>
<td>66</td>
<td>67</td>
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**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>7,6</td>
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</tbody>
</table>

---

UAB AMALVA reserves the right to introduce the changes of parameters and size in the process of improvement of the air handling units.

---

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KOMPAKT RECU 700

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

RECU 700H

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

RECU 700V

Accessories

Air Filters. Supply / Exhaust
Filter class EN779:2011 M5/F7*  
Type Panel
Dimensions in mb 400x215x46 mm

Fans Motors EC/AC
Input power 164/240 W
Rotation speed 2570/2600 rpm
Protection level, IEC 34-5 IP 44

Electric Air Heater
Capacity 2,5 kW
Air temperature, °C 10,7°C

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

Acoustic Data

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>A-weighted</th>
</tr>
</thead>
</table>
| RECU 700 VE-EC
| Supply Inlet | -10 | -9  | -9  | -8  | -12 | -16 | -20 | -24 | -6,0       |
| Supply Outlet| -8  | -5  | -4  | -4  | -6  | -12 | -15 | -19 | -23        |
| Exhaust Inlet | -10 | -9  | -9  | -8  | -12 | -16 | -20 | -24 | -26        |
| Exhaust Outlet| -8  | -5  | -4  | -4  | -6  | -12 | -15 | -18 | -20        |
| Surrounding (1p., 3m) | -24 | -21 | -21 | -28 | -31 | -36 | -41 | -45 | -24,8      |
| RECU 700 HE-EC
| Supply Inlet | -9  | -7  | -6  | -10 | -15 | -19 | -23 | -27 | -4,8       |
| Supply Outlet| -7  | -2  | -1  | -1  | -5  | -11 | -14 | -18 | -22        |
| Exhaust Inlet | -9  | -7  | -6  | -10 | -15 | -19 | -23 | -27 | -4,8       |
| Exhaust Outlet| -7  | -2  | -1  | -1  | -5  | -10 | -14 | -17 | 0,0        |
| Surrounding (1p., 3m) | -24 | -21 | -21 | -28 | -31 | -36 | -41 | -45 | -24,4      |
| RECU 700 VE-AC
| Supply Inlet | -12 | -10 | -10 | -14 | -20 | -25 | -31 | -35 | -9,2       |
| Supply Outlet| -10 | -8  | -6  | -5  | -4  | -7  | -10 | -14 | -28        |
| Exhaust Inlet | -12 | -10 | -10 | -14 | -20 | -25 | -31 | -35 | -9,2       |
| Exhaust Outlet| -10 | -8  | -6  | -5  | -4  | -7  | -10 | -14 | -28        |
| Surrounding (1p., 3m) | -26 | -22 | -24 | -32 | -36 | -43 | -50 | -55 | -28,5      |
| RECU 700 HE-AC
| Supply Inlet | -11 | -8  | -6  | -12 | -18 | -24 | -29 | -32 | -6,2       |
| Supply Outlet| -8  | -5  | -0  | -5  | -13 | -17 | -22 | -26 | -6,2       |
| Exhaust Inlet | -11 | -8  | -6  | -12 | -18 | -24 | -29 | -32 | -6,2       |
| Exhaust Outlet| -8  | -5  | -0  | -5  | -13 | -17 | -22 | -26 | -6,2       |
| Surrounding (1p., 3m) | -26 | -22 | -24 | -32 | -36 | -43 | -50 | -55 | -28,5      |

Performance RECU 700-AC

Air flow rate (m³/h)

Performance RECU 700-EC

Air flow rate (m³/h)

Temperature efficiency wet

Application: 21°C, RH 45% indoor

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

Air Filters. Supply / Exhaust
Filter class EN779:2011 M5/F7*
Type Panel
Dimensions in mb 400x215x46 mm

Fans Motors EC/AC
Input power 164/240 W
Rotation speed 2570/2600 rpm
Protection level, IEC 34-5 IP 44

Electric Air Heater
Capacity 2,5 kW
Air temperature, °C 10,7°C

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

Acoustic Data

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>A-weighted</th>
</tr>
</thead>
</table>
| RECU 700 VE-EC
| Supply Inlet | -10 | -9  | -9  | -8  | -12 | -16 | -20 | -24 | -6,0       |
| Supply Outlet| -8  | -5  | -4  | -4  | -6  | -12 | -15 | -19 | -23        |
| Exhaust Inlet | -10 | -9  | -9  | -8  | -12 | -16 | -20 | -24 | -26        |
| Exhaust Outlet| -8  | -5  | -4  | -4  | -6  | -12 | -15 | -18 | -20        |
| Surrounding (1p., 3m) | -24 | -21 | -21 | -28 | -31 | -36 | -41 | -45 | -24,8      |
| RECU 700 HE-EC
| Supply Inlet | -9  | -7  | -6  | -10 | -15 | -19 | -23 | -27 | -4,8       |
| Supply Outlet| -7  | -2  | -1  | -1  | -5  | -11 | -14 | -18 | -22        |
| Exhaust Inlet | -9  | -7  | -6  | -10 | -15 | -19 | -23 | -27 | -4,8       |
| Exhaust Outlet| -7  | -2  | -1  | -1  | -5  | -10 | -14 | -17 | 0,0        |
| Surrounding (1p., 3m) | -24 | -21 | -21 | -28 | -31 | -36 | -41 | -45 | -24,4      |
| RECU 700 VE-AC
| Supply Inlet | -12 | -10 | -10 | -14 | -20 | -25 | -31 | -35 | -9,2       |
| Supply Outlet| -10 | -8  | -6  | -5  | -4  | -7  | -10 | -14 | -28        |
| Exhaust Inlet | -12 | -10 | -10 | -14 | -20 | -25 | -31 | -35 | -9,2       |
| Exhaust Outlet| -10 | -8  | -6  | -5  | -4  | -7  | -10 | -14 | -28        |
| Surrounding (1p., 3m) | -26 | -22 | -24 | -32 | -36 | -43 | -50 | -55 | -28,5      |
| RECU 700 HE-AC
| Supply Inlet | -11 | -8  | -6  | -12 | -18 | -24 | -29 | -32 | -6,2       |
| Supply Outlet| -8  | -5  | -0  | -5  | -13 | -17 | -22 | -26 | -6,2       |
| Exhaust Inlet | -11 | -8  | -6  | -12 | -18 | -24 | -29 | -32 | -6,2       |
| Exhaust Outlet| -8  | -5  | -0  | -5  | -13 | -17 | -22 | -26 | -6,2       |
| Surrounding (1p., 3m) | -26 | -22 | -24 | -32 | -36 | -43 | -50 | -55 | -28,5      |

Performance RECU 700-AC

Air flow rate (m³/h)

Performance RECU 700-EC

Air flow rate (m³/h)

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~ 230V
Maximal operating current 11.5 A
Paint color RAL 7035
Control system KOMFOVENT C3

Air Filters. Supply/Exhaust
Filter class EN779:2011 MS/F7
Type 4xM Panel
Dimensions b x h x l 390x100x46 mm

Fans Motors EC
Input power 164 W
Rotation speed 2570 rpm
Protection level, IEC 600 5 IP 44

Electric Air Heater
Capacity 2 kW
Air temperature, 6t 8.2°C
*Optimal

Correction factor for h/vW approximately 20 Pa at 700 m³/h.
Correction factor for f7 class filter approximately – 70 Pa.

Performance RECU 700VECF-EC
Air flow rate (m³/h)

Performance RECU 700HECF-EC
Air flow rate (m³/h)

Temperature efficiency wet

Acoustic Data

Temperature efficiency wet

Application: 21°C, RH 45% indoor

Performance RECU 700VECF-EC
Air flow rate (m³/h)

Temperature efficiency wet

Application: 21°C, RH 45% indoor

Performance RECU 700HECF-EC
Air flow rate (m³/h)

Temperature efficiency wet

Application: 21°C, RH 45% indoor
UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

**KOMPAKT RECU 900**

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

**RECU 900H**

- **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

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

**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 left

**Accessories**

- p. 73
- p. 74
- p. 75
- p. 78
- p. 76
- p. 77
- p. 79
- p. 82

Air Filters. Supply / Exhaust

- **Filter class**: EN179-2011 M5/F7*
- **Panels**
- **Dimensions in mm**: 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, °C**: 15°C

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>7</td>
</tr>
</tbody>
</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECU 900 V/AC</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
<td>-20</td>
<td>-25</td>
<td>-31</td>
<td>-39</td>
</tr>
<tr>
<td>RECU 900 HE-AC</td>
<td>-11</td>
<td>-8</td>
<td>-8</td>
<td>-12</td>
<td>-20</td>
<td>-25</td>
<td>-31</td>
<td>-40</td>
</tr>
</tbody>
</table>

**Performance RECU 900-AC**

- **Supply Inlet**: -12 -10 -10 -14 -20 -25 -31 -39
- **Supply Outlet**: -10 -5 -5 -7 -15 -25 -31 -40
- **Exhaust Inlet**: -11 -8 -8 -12 -20 -25 -31 -40
- **Exhaust Outlet**: -8 -2 -1 -1 -5 -15 -19 -30

**Performance RECU 900-EC**

- **Supply Inlet**: -11 -8 -8 -12 -20 -25 -31 -39
- **Supply Outlet**: -9 -5 -5 -7 -13 -22 -22 -30
- **Exhaust Inlet**: -11 -8 -8 -12 -20 -25 -31 -39
- **Exhaust Outlet**: -9 -5 -5 -7 -13 -22 -22 -30

**Temperature efficiency wet**

- **Application**: 21°C, RH 45% indoor

---

*The photo is intended for informational purposes only, actual details may vary.*
KOMPAKT RECU 1200

Panel thickness: 45 mm
Unit weight: 225 kg
Nominal air flow: 1200 m³/h
Supply voltage (E): 3~ 400V
Supply voltage (W): 1~ 230V
Maximal operating current (E): 14.3 A
Maximal operating current (W): 5.6 A
Paint color: RAL 7035
Control system: KOMFOVENT C3

Air flow rate (m³/h)

Performance RECU 1200-EC

Air Filters. Supply / Exhaust
Filter class: EN/779-2011 MS/F7*
Type: Bag filter
Dimensions (bafl): 500x200x800 mm

Fans Motors EC
Input power: 405 W
Rotation speed: 2700 rpm
Protection level, EC 34.5: IP 54

Electric Air Heater
Capacity: 6 kW
Air temperature, Δt: +4.8 °C

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

Application: 21°C, RH 45% indoor

KOMPAKT RECU 1200

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
C Extract indoor
D Exhaust air

Shown as right

Accessories

p. 73  p. 75  p. 78  p. 80  p. 76  p. 78  p. 82
**KOMPAKT RECU 1200**

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

**Accessories**
- p. 73
- p. 75
- p. 78
- p. 80
- p. 76
- p. 78
- p. 79
- p. 82

**Air Filters. Supply / Exhaust**
- Filter class: EN779:2011 M5/F7*
- Type: Bag filter
- Dimensions (mm): 502x267x360

**Fans Motors EC**
- Input power: 405 W
- Rotation speed: 2700 rpm
- Protection level, IEC 54-5: IP 54

**Electric Air Heater**
- Capacity: 6 kW
- Air temperature, At: 14.8°C

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>5,7</td>
</tr>
</tbody>
</table>

**Air to water heat exchanger, HW**

<table>
<thead>
<tr>
<th>Water temperature in/out, °C</th>
<th>90/70</th>
<th>80/60</th>
<th>70/50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, kW</td>
<td>11</td>
<td>9,3</td>
<td>7,7</td>
</tr>
<tr>
<td>Flow rate, dm³/h</td>
<td>402</td>
<td>409</td>
<td>336</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>5</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Connection, °</td>
<td>1/2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature in/out, °C</td>
<td>4,2/31</td>
<td>4,2/27</td>
<td>4,2/23</td>
</tr>
</tbody>
</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th></th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECU 1200 HE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-8</td>
<td>-18</td>
<td>-23</td>
<td>-25</td>
<td>4,7</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-14</td>
<td>-18</td>
<td>0,1</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-8</td>
<td>-18</td>
<td>-23</td>
<td>-25</td>
<td>4,7</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-10</td>
<td>14</td>
<td>-17</td>
<td>0,0</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-24</td>
<td>-21</td>
<td>-21</td>
<td>-28</td>
<td>-31</td>
<td>-36</td>
<td>-41</td>
<td>-45</td>
<td>24,3</td>
</tr>
</tbody>
</table>

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

**Performance RECU 1200-EC**

**Accessories**
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- p. 78
- p. 80
- p. 76
- p. 78
- p. 79
- p. 82

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

**Accessories**

- **Panel thickness**: 45 mm
- **Unit weight**: E/W - 300/290 kg
- **Nominal air flow**: 1600 m³/h
- **Supply voltage (E)**: 3–400V
- **Supply voltage (W)**: 1–280V
- **Maximal operating current (E)**: 23.2 A
- **Maximal operating current (W)**: 6.3 A
- **Paint color**: RAL 7035
- **Control system**: KOMFOVENT C3

**RECU 1600VE**

- **Supply Inlet**: -11 to -12 dB(A)
- **Supply Outlet**: 0 to -2 dB(A)
- **Exhaust Inlet**: -11 to -12 dB(A)
- **Exhaust Outlet**: 0 to -1 dB(A)
- **Surrounding**: -26 to -28 dB(A)

**RECU 1600VW**

- **Supply Inlet**: -11 to -12 dB(A)
- **Supply Outlet**: 0 to -2 dB(A)
- **Exhaust Inlet**: -11 to -12 dB(A)
- **Exhaust Outlet**: 0 to -1 dB(A)
- **Surrounding**: -26 to -28 dB(A)

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
<td>5</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>6.6</td>
<td>9.4</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

**Air to water heat exchanger, HW**

- **Capacity, kW**: 25.4 / 21.6 / 19.5
- **Flow rate, dm³/h**: 1121 / 946 / 851
- **Pressure drop, kPa**: 2 / 3 / 4
- **Connection, °C**: 1
- **Temperature in-out, °C**: -20 / 27.1 / -20 / 20 / -20 / 16.2

**Acoustic Data**

<table>
<thead>
<tr>
<th>Model</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1 k</th>
<th>2 k</th>
<th>4 k</th>
<th>8 k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECU 1600 VE</td>
<td>63</td>
<td>125</td>
<td>250</td>
<td>500</td>
<td>1 k</td>
<td>2 k</td>
<td>4 k</td>
<td>8 k</td>
<td>dB(A)</td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
<td>-20</td>
<td>-25</td>
<td>-31</td>
<td>-9.2</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-10</td>
<td>-5</td>
<td>-5</td>
<td>-4</td>
<td>-7</td>
<td>-15</td>
<td>-19</td>
<td>-24</td>
<td>-2.9</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
<td>-20</td>
<td>-25</td>
<td>-31</td>
<td>-9.2</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-10</td>
<td>-5</td>
<td>-5</td>
<td>-4</td>
<td>-7</td>
<td>-15</td>
<td>-19</td>
<td>-24</td>
<td>-2.9</td>
</tr>
<tr>
<td>Surrounding (lpA, 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-32</td>
<td>-43</td>
<td>-50</td>
<td>-55</td>
<td>-28.5</td>
<td></td>
</tr>
</tbody>
</table>

**Performance RECU 1600-EC**

- **Air flow rate (m³/h)**: 200 to 2500
- **Fan power**: 420 W
- **Rotation speed**: 2700 rpm
- **Protection level, IEC 34-5**: IP 54

**Electric Air Heater**

- **Capacity**: 12 kW
- **Air temperature, °C**: 17.2°C

**Temperature efficiency wet**

- **Application**: 21 °C, RH 45% indoor

**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class</th>
<th>EN779-2011 MS/F7*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Bag filter</td>
</tr>
<tr>
<td>Dimensions (l x b x h)</td>
<td>590 x 200 x 260 mm</td>
</tr>
</tbody>
</table>

**Fans Motors EC**

- **Input power**: 420 W
- **Rotation speed**: 2700 rpm
- **Protection level, IEC 34-5**: IP 54

**Paint color**: RAL 7035

**Control system**: KOMFOVENT C3

---

*Option*
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### KOMPAKT RECUP 1600

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

### RECU 1600HE

#### 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
12. Outdoor intake
13. Supply air
14. Extract indoor
15. Exhaust air

### 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
12. Outdoor intake
13. Supply air
14. Extract indoor
15. Exhaust air

### Accessories

- Panels
- Ducts
- Filters
- Fans
- Motors
- Paints
- Controls

### Air Filters. Supply / Exhaust

<table>
<thead>
<tr>
<th>Filter class</th>
<th>EN779:2011 MS/F7*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Panel</td>
</tr>
<tr>
<td>Dimensions (b/h/l)</td>
<td>610x350x96 mm</td>
</tr>
</tbody>
</table>

### Fans Motors EC

- **Input power:** 420 W
- **Rotation speed:** 2600 rpm
- **Protection level:** EC 34-5
- **IP 54**

### Electric Air Heater

- **Capacity:** 12 kW
- **Air temperature, Δt:** 23.7°C

### Temperature efficiency wet

<table>
<thead>
<tr>
<th>Temperature efficiency</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake, °C</td>
<td>-10</td>
<td>-20</td>
</tr>
<tr>
<td>Supply, °C</td>
<td>6,6</td>
<td>11</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>5</td>
<td>2</td>
</tr>
</tbody>
</table>

### Air to water heat exchanger, HW

| Capacity, kW | 25 | 23,2 | 18,3 |
| Flow rate, dm³/h | 1140 | 1015 | 798 |
| Pressure drop, kPa | 5 | 4 | 2 |

### Temperature efficiency wet

<table>
<thead>
<tr>
<th>Temperature efficiency</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake, °C</td>
<td>-23/25</td>
<td>-23/20</td>
</tr>
<tr>
<td>Supply, °C</td>
<td>-14/20</td>
<td></td>
</tr>
</tbody>
</table>

### Acoustic Data

<table>
<thead>
<tr>
<th>Design</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECU 1600 HE</td>
<td>Supply Inlet</td>
<td>-11</td>
<td>-8</td>
<td>-8</td>
<td>-8</td>
<td>-12</td>
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<tr>
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<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-15</td>
<td>-19</td>
<td>-23</td>
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<tr>
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<td>-8</td>
<td>-8</td>
<td>-8</td>
<td>-12</td>
<td>-20</td>
<td>-25</td>
<td>-28</td>
<td>-7,4</td>
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<tr>
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<td>-8</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-15</td>
<td>-19</td>
<td>-23</td>
</tr>
<tr>
<td>Surrounding (3pl, 3m)</td>
<td>-25</td>
<td>-21</td>
<td>-22</td>
<td>-29</td>
<td>-33</td>
<td>-38</td>
<td>-44</td>
<td>-48</td>
<td>-26,7</td>
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<td>RECU 1600 HW</td>
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<td>-8</td>
<td>-8</td>
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<td>-12</td>
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<td>-27</td>
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<tr>
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<td>-3</td>
<td>-2</td>
<td>-2</td>
<td>-6</td>
<td>-12</td>
<td>-16</td>
<td>-21</td>
<td>-13,3</td>
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<td>-8</td>
<td>-8</td>
<td>-8</td>
<td>-12</td>
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<td>-7,4</td>
</tr>
<tr>
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<td>-8</td>
<td>-2</td>
<td>-1</td>
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<td>-15</td>
<td>-19</td>
<td>-23</td>
</tr>
<tr>
<td>Surrounding (3pl, 3m)</td>
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<td>-22</td>
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<td>-33</td>
<td>-38</td>
<td>-44</td>
<td>-48</td>
<td>-26,7</td>
</tr>
</tbody>
</table>

### Performance RECU 1600-EC

- **Air flow rate (m³/h):**
  - 1000
  - 1200
  - 1400
  - 1600
  - 1800
  - 2000

- **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, °C:**
  - 1

- **Temperature in-out, °C:**
  - -23/25
  - -23/20
  - -14/20

### Application: 21°C, RH 45% indoor

- **Outdoor intake**
- **Supply air**
- **Extract indoor**
- **Exhaust air**
UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

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

Accessories

**KOMPAKT RECUP 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

**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

**Accessories**

- p. 73
- p. 75
- p. 78
- p. 80
- p. 79
- p. 82

**Air Filters. Supply / Exhaust**

Filter class | EN779:2011 M5/F7*
Type | Panel
Dimensions (mm) | 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, °C | 26.6°C

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>4.1</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>6</td>
</tr>
</tbody>
</table>

**Air to water heat exchanger, HW**

<table>
<thead>
<tr>
<th>Water temperature in/out, °C</th>
<th>90/70</th>
<th>80/60</th>
<th>70/50</th>
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</thead>
<tbody>
<tr>
<td>Capacity, kW</td>
<td>29.7</td>
<td>25.2</td>
<td>18.9</td>
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<tr>
<td>Flow rate, dm³/h</td>
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<td>1094</td>
<td>825</td>
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<tr>
<td>Connection, °C</td>
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<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Temperature in-out, °C</td>
<td>-23/21</td>
<td>-17/20</td>
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</table>

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Data</th>
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<th>Exhaust</th>
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</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-10</td>
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</tr>
<tr>
<td>Supply temperature, °C</td>
<td>4.1</td>
<td>7.3</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>6</td>
<td>4</td>
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**Acoustic Data**

<table>
<thead>
<tr>
<th>p. 63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k dB(A)</th>
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</thead>
<tbody>
<tr>
<td>RECU 2000 HE</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
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<td>-14</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
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<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-14</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-24</td>
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<td>-28</td>
<td>-31</td>
<td>-36</td>
<td>-41</td>
<td>-45</td>
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**RECU 2000 HW**

<table>
<thead>
<tr>
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<th>Supply</th>
<th>Exhaust</th>
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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

**Application: 21°C, Rh 45% indoor**

**Performance RECU 2000-EC**

Air flow rate (m³/h)

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance</td>
<td>0</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
<td>350</td>
<td>400</td>
</tr>
</tbody>
</table>

**Temp. efficiency (%)**

<table>
<thead>
<tr>
<th>500</th>
<th>750</th>
<th>1000</th>
<th>1250</th>
<th>1500</th>
<th>1750</th>
<th>2000</th>
<th>2250</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>52</td>
<td>54</td>
<td>56</td>
<td>58</td>
<td>60</td>
<td>62</td>
<td>64</td>
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</table>

**Acoustic Data**

<table>
<thead>
<tr>
<th>p. 63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
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</tr>
</thead>
<tbody>
<tr>
<td>RECU 2000 HE</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Supply Inlet</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-14</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-11</td>
<td>-7</td>
<td>-8</td>
<td>-11</td>
<td>-11</td>
<td>-23</td>
<td>-25</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-7</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-11</td>
<td>-14</td>
</tr>
<tr>
<td>Surrounding (3pl., 3m)</td>
<td>-24</td>
<td>-21</td>
<td>-28</td>
<td>-31</td>
<td>-36</td>
<td>-41</td>
<td>-45</td>
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</table>

**RECU 2000 HW**

<table>
<thead>
<tr>
<th>Data</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>-11</td>
<td>-7</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>4.1</td>
<td>7.3</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>6</td>
<td>4</td>
</tr>
</tbody>
</table>

**Application: 21°C, RH 45% indoor**

**Performance RECU 2000-EC**

Air flow rate (m³/h)

<table>
<thead>
<tr>
<th></th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
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<th>350</th>
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<tbody>
<tr>
<td>Performance</td>
<td>0</td>
<td>50</td>
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<td>350</td>
<td>400</td>
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**Temp. efficiency (%)**

<table>
<thead>
<tr>
<th>500</th>
<th>750</th>
<th>1000</th>
<th>1250</th>
<th>1500</th>
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<tbody>
<tr>
<td>50</td>
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<td>54</td>
<td>56</td>
<td>58</td>
<td>60</td>
<td>62</td>
<td>64</td>
</tr>
</tbody>
</table>

**Paint color**

- RAL 7035

**Control system**

- KOMFOVENT C3

Maximal operating current (E) | 32.1 A
Maximal operating current (W) | 6.4 A

Correction factor for hW approximately 30 Pa at 2000 m³/h. Correction factor for f7 class filter approximately -70 Pa.
**KOMPAKT RECU 3000**

- **Panel thickness**: 45 mm
- **Unit weight**: 540-690/1150 kg
- **Nominal air flow**: 3000 m³/h
- **Supply voltage**: 3-400 V
- **Maximal operating current (E)**: 25.7 A
- **Maximal operating current (W)**: 4.1 A
- **Paint color**: RAL 7035
- **Control system**: KOMFOVENT C

---

**RECU 3000HE**

- **Supply Inlet**: -12 -10 -10 -10 -14 -20 -25 -30 -35 dB (A)
- **Supply Outlet**: -10 -8 -6 -4 -1 -2
- **Exhaust Inlet**: -11 -8 -6 -4 -2
- **Exhaust Outlet**: -8 -2
- **Surrounding (3pl., 3m)**: -28 -25 -23 -21 -19 -17 -15 -13 -11

---

**RECU 3000HW**

- **Supply Inlet**: -12 -10 -10 -10 -14 -20 -25 -30 -35 dB (A)
- **Supply Outlet**: -10 -8 -6 -4 -2
- **Exhaust Inlet**: -11 -8 -6 -4 -2
- **Exhaust Outlet**: -8 -2
- **Surrounding (3pl., 3m)**: -28 -25 -23 -21 -19 -17 -15 -13 -11

---

**Accessories**

- Outdoor intake
- Supply air
- Extract indoor
- Exhaust air

---

**Air Filters. Supply / Exhaust**

- **Filter class**: EN779-2011 MS/F7*
- **Type**: Bag filter
- **Dimensions inlet**: 592x592x300 mm
- **Fans Motors EC**
  - **Input power**: 990 W
  - **Rotation speed**: 2500 rpm
  - **Protection level, IEC 34-5**: IP 55
- **Electric Air Heater**
  - **Capacity**: 18 kW
  - **Air temperature, °C**: 17.8

---

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Intake temperature, °C</th>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>-10</td>
<td>6,6</td>
<td>8,9</td>
</tr>
<tr>
<td>0</td>
<td>10,9</td>
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**Acoustic Data**

<table>
<thead>
<tr>
<th>RECU 3000 HE</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
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<th>4k</th>
<th>8k</th>
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<tr>
<td>Supply Inlet</td>
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<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
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<td>-25</td>
<td>-31</td>
<td>-9,2</td>
</tr>
<tr>
<td>Supply Outlet</td>
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<td>-6</td>
<td>-5</td>
<td>-4</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-1</td>
<td>-2,9</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
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<td>-5</td>
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<td>-2,9</td>
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**Performance RECU 3000-EC**

**Acoustic Data**

<table>
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<th>125</th>
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<td>-31</td>
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<tr>
<td>Supply Outlet</td>
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<td>-6</td>
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<tr>
<td>Exhaust Outlet</td>
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<td>-6</td>
<td>-6</td>
<td>-4</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-1</td>
<td>-2,9</td>
</tr>
</tbody>
</table>

---

**UAB AMALVA** reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.
KOMPAKT RECUT 4000

**Accessories**

- 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): 36.4 A
- Maximal operating current (W): 4.1 A
- Paint color: RAL 7035
- Control system: KOMFOVENT C2

---

**Air to water heat exchanger, HW**

- Water temperature in/out, °C: 90/70, 80/90, 70/50
- Capacity, kW: 48, 41.8, 35.7
- Flow rate, dm³/h: 2114, 1833, 1555
- Pressure drop, kPa: 23, 18, 13
- Connection: “1

---

**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

---

**Acoustic Data**

- RECU 4000 HE
  - Supply Inlet: -12, -10, -10, -14, -20, -25, -31, -9, -2
  - Supply Outlet: -10, -5, -5, -4, -7, -11, -19, -24, -29
  - Exhaust Inlet: -12, -10, -10, -14, -20, -25, -31, -9, -2
  - Exhaust Outlet: -10, -5, -5, -4, -7, -14, -18, -23, -23, -20
  - Surrounding (1pl, 3m): -26, -22, -24, -12, -36, -43, -50, -55, -28, -3

- RECU 4000 HW
  - Supply Inlet: -11, -8, -6, -12, -18, -24, -29, -6, -2
  - Supply Outlet: -8, -6, -6, -12, -18, -24, -29, -6, -2
  - Exhaust Inlet: -11, -8, -6, -12, -18, -24, -29, -6, -2
  - Exhaust Outlet: -8, -6, -6, -12, -18, -24, -29, -6, -2
  - Surrounding (1pl, 3m): -28, -22, -24, -12, -36, -43, -50, -55, -28, -3

---

**Temperature efficiency wet**

- Supply: 5, 9, 7, 5
- Exhaust: 5, 26, 5, 5, 21, 5

---

**Application: 21°C, Rh 45% indoor**
### KOMPAKT RECU 4500

#### Accessories

**Panel thickness**  
45 mm

**Unit weight**  
625 (640/1803) 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**  
KOMFONET C

---

### Performance RECU 4500-EC

**Air flow rate (m³/h)**

**Air intake**

- 6564

**Air outlet**

- 6564

**Power**

- 1700 W

**Rotation speed**

- 2600 rpm

**Protection level, NEC 34-5**

- IP 54

---

### Electric Air Heater

**Capacity**  
24 kW

**Air temperature, °C**  
15,8°C

---

### Temperature efficiency wet

<table>
<thead>
<tr>
<th>Supply</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake temperature, °C</td>
<td>10</td>
</tr>
<tr>
<td>Supply temperature, °C</td>
<td>6,7</td>
</tr>
</tbody>
</table>

---

### Air to water heat exchanger, HW

**Water temperature in/out, °C**

- 90/70
- 80/60
- 70/50

**Capacity, kW**

- 46
- 40
- 34

**Pipe rate, m³/h**

- 2021
- 1735
- 1484

**Pressure drop, kPa**

- 26
- 21
- 15

**Correction factor**

- 1

**Temperature in-out, °C**

- -5/35
- -5/31
- -5/17

---

### Acoustic Data

<table>
<thead>
<tr>
<th>RECU 4500 HE</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>16k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
<td>-26</td>
<td>-25</td>
<td>-31</td>
<td>-9,2</td>
</tr>
<tr>
<td>Supply Outlet</td>
<td>-10</td>
<td>-5</td>
<td>-5</td>
<td>-4</td>
<td>-7</td>
<td>-15</td>
<td>-19</td>
<td>-24</td>
<td>-2,9</td>
</tr>
<tr>
<td>Exhaust Inlet</td>
<td>-12</td>
<td>-10</td>
<td>-10</td>
<td>-10</td>
<td>-14</td>
<td>-26</td>
<td>-25</td>
<td>-31</td>
<td>-9,2</td>
</tr>
<tr>
<td>Exhaust Outlet</td>
<td>-10</td>
<td>-5</td>
<td>-5</td>
<td>-4</td>
<td>-7</td>
<td>-15</td>
<td>-19</td>
<td>-24</td>
<td>-2,9</td>
</tr>
<tr>
<td>Surrounding (1pl, 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-24</td>
<td>-12</td>
<td>-36</td>
<td>-43</td>
<td>-50</td>
<td>-55</td>
<td>-28,5</td>
</tr>
</tbody>
</table>

**RECU 4500 HW**

**Supply Inlet**

-11

**Supply Outlet**

-11

**Exhaust Inlet**

-8

**Exhaust Outlet**

-8

**Surrounding (1pl, 3m)**

-26

---

### 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

---

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Application: 21°C, RH 45% indoor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outdoor</td>
</tr>
<tr>
<td>-23°C</td>
</tr>
<tr>
<td>Partial load</td>
</tr>
</tbody>
</table>

---

**Paint color**

RAL 7035

**Control system**

KOMFONET C

---

**Filter class**

EN779:2011 M5/F7*

**Type**

Bag filter

---

**Dimensions (inlet)**

592x592x300 mm

---

**Fans Motors EC**

**Input power**

1700 W

**Rotation speed**

2600 rpm

**Protection level, NEC 34-5**

IP 54

---

**Electric Air Heater**

**Capacity**

24 kW

**Air temperature, °C**

15,8°C

---

**Correction factor**

For M5 filter approximately 40 Pa at 4500 m³/h.

For F7 class filter approximately – 70 Pa.
**KOMPAKT RECU 7000**

Panel thickness 45 mm  
Unit weight 800 (260-260-280) kg  
Nominal air flow 7000 m³/h  
Supply voltage 3~ 400V  
Maximal operating current 16 A  
Paint color RAL 7035  
Control system KOMFOVENT C5  

---

**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

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

---

**Air Filters. Supply / Exhaust**

<table>
<thead>
<tr>
<th>Filter class / Bag filter</th>
<th>Dimensions (mm) x 2 pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>M5/f7*</td>
<td>592x592-12x635</td>
</tr>
</tbody>
</table>

**Fans Motors EC**

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

**Performance RECU 7000-EC**

- Air flow rate (m³/h)  
- Intake temperature, °C  
- Supply temperature, °C  
- Water temperature in/out, °C  
- Capacity, kW  
- Flow rate, dm³/h  
- Pressure drop, kPa  
- Temperature in–out, °C  
- Connection, "  
- Paint color RAL 7035  
- Control system KOMFOVENT C5

**Acoustic Data**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>16k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Pressure Level, dB(A)</td>
<td>65</td>
<td>67</td>
<td>70</td>
<td>75</td>
<td>80</td>
<td>85</td>
<td>90</td>
<td>95</td>
<td>100</td>
</tr>
</tbody>
</table>

**Application:** 21°C, RH 45% indoor

---

**Temperature efficiency wet**

<table>
<thead>
<tr>
<th>Water temperature in/out, °C</th>
<th>80/60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, kW</td>
<td>35.4</td>
</tr>
<tr>
<td>Flow rate, dm³/h</td>
<td>1560</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>7.6</td>
</tr>
<tr>
<td>Connection, &quot;</td>
<td>3/4</td>
</tr>
<tr>
<td>Temperature in–out, °C</td>
<td>6/21</td>
</tr>
</tbody>
</table>

**Temperature efficiency wet**

- Application: 21°C, RH 45% indoor

---

**Acoustic Data**

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>16k</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound Pressure Level, dB(A)</td>
<td>60</td>
<td>62</td>
<td>65</td>
<td>68</td>
<td>71</td>
<td>74</td>
<td>77</td>
<td>80</td>
<td>83</td>
</tr>
</tbody>
</table>

**Application:** 21°C, RH 45% indoor

---

**Temperature efficiency wet**

- Application: 21°C, RH 45% indoor

---

**Accessories**

- p. 73  
- p. 75  
- p. 78  
- p. 80  
- p. 76  
- p. 79  
- p. 82

---

UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.
**KOMFOVENT KOMPAKT OTK units**

**KOMFOVENT KOMPAKT OTK** – false ceiling supply air handling units.

*Capacity range from 170 to 4200 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

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>45 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal air flow</td>
<td>700 m³/h</td>
</tr>
<tr>
<td>Paint color</td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Control system</td>
<td>KOMFOVENT C3</td>
</tr>
</tbody>
</table>

#### Supply air units

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions (BxHxL)</th>
<th>Thermal and sound insulation</th>
<th>Ducts connection</th>
<th>Supply voltage / phases</th>
<th>Fan input power AC</th>
<th>Air heater capacity</th>
<th>Maximal operating current</th>
<th>ΔT</th>
<th>Filter MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>With electric heater</td>
<td>OTK 700P-3 E3</td>
<td>440x350x850</td>
<td>45 ø 200</td>
<td>230/1f</td>
<td>165</td>
<td>3,0</td>
<td>13,8</td>
<td>13</td>
<td>345x287x46</td>
</tr>
<tr>
<td>OTK 700P-E6</td>
<td>440x350x850</td>
<td>45 ø 200</td>
<td>400/3f</td>
<td>165</td>
<td>6,0</td>
<td>9,4</td>
<td>25</td>
<td>345x287x46</td>
<td></td>
</tr>
<tr>
<td>OTK 700P-9F</td>
<td>440x350x850</td>
<td>45 ø 200</td>
<td>400/3f</td>
<td>165</td>
<td>9,0</td>
<td>13,8</td>
<td>38</td>
<td>345x287x46</td>
<td></td>
</tr>
</tbody>
</table>

#### Acoustic Data

<table>
<thead>
<tr>
<th>OTK 700 PE</th>
<th>63 125 250 500 1k 2k 4k 8k [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
<td>-9 -9 -9 -8 -8 -8 -7 -6</td>
</tr>
<tr>
<td>Surrounding (1pl. 3m)</td>
<td>-26 -22 -22 -21 -21 -21 -21 -21</td>
</tr>
</tbody>
</table>

#### Performance OTK 700-AC

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
<th>0 100 200 300 400 500 600 700 800 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan input power AC</td>
<td>0 2 4 6 8 10 12 14 16 18</td>
</tr>
<tr>
<td>Air flow rate (m³/h)</td>
<td>0 100 200 300 400 500 600 700 800 900</td>
</tr>
</tbody>
</table>

**KOMPAKT OTK 1200**

<table>
<thead>
<tr>
<th>Panel thickness</th>
<th>45 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit weight</td>
<td>46 kg</td>
</tr>
<tr>
<td>Nominal air flow</td>
<td>1200 m³/h</td>
</tr>
<tr>
<td>Paint color</td>
<td>RAL 7035</td>
</tr>
<tr>
<td>Control system</td>
<td>KOMFOVENT C3</td>
</tr>
</tbody>
</table>

#### Supply air units

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions (BxHxL)</th>
<th>Thermal and sound insulation</th>
<th>Ducts connection</th>
<th>Supply voltage / phases</th>
<th>Fan input power AC</th>
<th>Air heater capacity</th>
<th>Maximal operating current</th>
<th>ΔT</th>
<th>Filter MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>With electric heater</td>
<td>OTK 1200P-9</td>
<td>690x350x850</td>
<td>45 ø 250</td>
<td>400/3f</td>
<td>290</td>
<td>9,0</td>
<td>14,3</td>
<td>22</td>
<td>558x287x46</td>
</tr>
<tr>
<td>OTK 1200P-15</td>
<td>690x350x850</td>
<td>45 ø 250</td>
<td>400/3f</td>
<td>290</td>
<td>15,0</td>
<td>23,0</td>
<td>23,0</td>
<td>558x287x46</td>
<td></td>
</tr>
<tr>
<td>With hot water heater</td>
<td>OTK 1200PW</td>
<td>690x350x850</td>
<td>45 ø 250</td>
<td>3/1f</td>
<td>290</td>
<td>3,0</td>
<td>3,0</td>
<td>1,8</td>
<td>558x287x46</td>
</tr>
</tbody>
</table>

#### Air to water heat exchanger, HW

<table>
<thead>
<tr>
<th>Water temperature in/out, °C</th>
<th>70/50 80/60 90/70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, kW</td>
<td>15,2 18,5 20,55</td>
</tr>
<tr>
<td>Flow rate, dm³/h</td>
<td>707 812 907</td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td>2,9 3,6 4,28</td>
</tr>
<tr>
<td>Connection</td>
<td>1/2</td>
</tr>
<tr>
<td>Temperature in–out, °C</td>
<td>-30 -30 -30</td>
</tr>
<tr>
<td>-</td>
<td>-9,32 -15 -20</td>
</tr>
<tr>
<td>-</td>
<td>-17 -21 -25</td>
</tr>
</tbody>
</table>

#### Acoustic Data

<table>
<thead>
<tr>
<th>OTK 1200 PE</th>
<th>63 125 250 500 1k 2k 4k 8k [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Inlet</td>
<td>-9 -9 -9 -8 -8 -8 -7 -6</td>
</tr>
<tr>
<td>Surrounding (1pl. 3m)</td>
<td>-26 -22 -22 -21 -21 -21 -21 -21</td>
</tr>
</tbody>
</table>

#### Performance OTK 1200-AC

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
<th>0 100 200 300 400 500 600 700 800 900</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fan input power AC</td>
<td>0 2 4 6 8 10 12 14 16 18</td>
</tr>
<tr>
<td>Air flow rate (m³/h)</td>
<td>0 100 200 300 400 500 600 700 800 900</td>
</tr>
</tbody>
</table>

*This photo is intended for informational purposes only, exact details may vary.*
KOMPAKT OTK 2000

Panel thickness: 45 mm
Unit weight: 73 kg
Nominal air flow: 2000 m³/h
Paint color: RAL 7003
Control system: KOMFOVENT C3

Supply air units

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions</th>
<th>Thermal insulation</th>
<th>Ducts connection</th>
<th>Supply voltage</th>
<th>Fan input power AC</th>
<th>Air heater capacity</th>
<th>Maximal operating current</th>
<th>Filter M5</th>
<th>ΔT</th>
</tr>
</thead>
<tbody>
<tr>
<td>With electric heater</td>
<td>BxHxL(mm)</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>V</td>
<td>W</td>
<td>kW</td>
<td>A</td>
<td>°C</td>
</tr>
<tr>
<td>OTK 2000P-81S</td>
<td>1000x1550x665</td>
<td>45</td>
<td>700x250</td>
<td>400/3f</td>
<td>2x290</td>
<td>15.0</td>
<td>24.2</td>
<td>22</td>
<td>858x287x46</td>
</tr>
<tr>
<td>OTK 2000P-122.5</td>
<td>1000x1550x665</td>
<td>45</td>
<td>700x250</td>
<td>400/3f</td>
<td>2x290</td>
<td>22.5</td>
<td>35.1</td>
<td>33</td>
<td>858x287x46</td>
</tr>
<tr>
<td>With hot water heater</td>
<td>BxHxL(mm)</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>V</td>
<td>W</td>
<td>kW</td>
<td>A</td>
<td>°C</td>
</tr>
<tr>
<td>OTK 2000PW</td>
<td>1000x1550x665</td>
<td>45</td>
<td>700x250</td>
<td>230/1f</td>
<td>2x290</td>
<td>–</td>
<td>12.5</td>
<td></td>
<td>858x287x46</td>
</tr>
</tbody>
</table>

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, m³/h: 1253 1423 1511
Pressure drop, kPa: 9.82 12.03 13.07
Connection, °C: 1/2
Temperature in–out, °C: -30/12 -30/17 -30/20

Acoustic Data

63 125 250 500 1k 2k 4k 8k [dB(A)]

Performance OTK 2000-AC

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
<th>Capacity (kW)</th>
<th>Pressure drop (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>500</td>
<td>5.0</td>
<td>3.0</td>
</tr>
<tr>
<td>700</td>
<td>7.0</td>
<td>4.0</td>
</tr>
<tr>
<td>900</td>
<td>9.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

KOMPAKT OTK 3000

Panel thickness: 45 mm
Unit weight: 120 kg
Nominal air flow: 3000 m³/h
Paint color: RAL 7003
Control system: KOMFOVENT C3

Supply air units

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions</th>
<th>Thermal insulation</th>
<th>Ducts connection</th>
<th>Supply voltage</th>
<th>Fan input power AC</th>
<th>Air heater capacity</th>
<th>Maximal operating current</th>
<th>Filter M5</th>
<th>ΔT</th>
</tr>
</thead>
<tbody>
<tr>
<td>With hot water heater</td>
<td>BxHxL(mm)</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
<td>V</td>
<td>W</td>
<td>kW</td>
<td>A</td>
<td>°C</td>
</tr>
<tr>
<td>OTK 3000PW</td>
<td>1000x1550x665</td>
<td>45</td>
<td>700x250</td>
<td>400/3f</td>
<td>990</td>
<td>2.2</td>
<td>450x480x96(x2)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, m³/h: 1253 1423 1511
Pressure drop, kPa: 4.8 5.4 4.5
Connection, °C: 1/2
Temperature in–out, °C: -30/12 -30/17 -30/20
Safety on capacity: 11 26 36 45

Acoustic Data

63 125 250 500 1k 2k 4k 8k [dB(A)]

Performance OTK 3000-EC

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
<th>Capacity (kW)</th>
<th>Pressure drop (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>3.0</td>
<td>2.0</td>
</tr>
<tr>
<td>500</td>
<td>5.0</td>
<td>3.0</td>
</tr>
<tr>
<td>700</td>
<td>7.0</td>
<td>4.0</td>
</tr>
<tr>
<td>900</td>
<td>9.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

L: 1 -- speed, * -- fan power is shown for one fan motor. Performance data: filter M5. Correction factor for PW approximately 30 Pa at 2000 m³/h.

L: 1 -- 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 4000

Panel thickness 45 mm
Unit weight 123 kg
Nominal air flow 4000 m³/h
Panel color RAL 7032
Control system KOMFOVENT C3

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

Supply air units

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions</th>
<th>Thermal and sound insulation</th>
<th>Ducts connection</th>
<th>Supply voltage / phases</th>
<th>Fan input power EC</th>
<th>Maximal operating current</th>
<th>ΔP Water</th>
<th>Filter MS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BxHxL, mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>With hot water heater</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OTK 4000PW</td>
<td>1005x445x1217</td>
<td>45</td>
<td>600 x 400</td>
<td>400/1F</td>
<td>1000</td>
<td>2,3</td>
<td>5,1</td>
<td>450 x 480 x 965(x2)</td>
</tr>
</tbody>
</table>

Air to water heat exchanger, HW

<table>
<thead>
<tr>
<th>Water temperature in/out, °C</th>
<th>60/40</th>
<th>70/50</th>
<th>80/60</th>
<th>90/70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow rate, dm³/h</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure drop, kPa</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature in–out, °C</td>
<td>-30/20</td>
<td>-30/20</td>
<td>-30/20</td>
<td>-30/20</td>
</tr>
<tr>
<td>Safety on capacity</td>
<td>5</td>
<td>18</td>
<td>30</td>
<td>40</td>
</tr>
</tbody>
</table>

Acoustic Data

<table>
<thead>
<tr>
<th>BTU</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
<th>dB(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTK 4000 PW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Supply air units

With hot water heater

OTK 4000PW

Performance OTK 4000-EC

<table>
<thead>
<tr>
<th>Air flow rate (m³/h)</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air flow rate (m³/h)</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
</tbody>
</table>

Acoustic Data

<table>
<thead>
<tr>
<th>Supply Inlet</th>
<th>-9</th>
<th>-4</th>
<th>-4</th>
<th>-5</th>
<th>-9</th>
<th>-16</th>
<th>-21</th>
<th>-26</th>
<th>-41</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply Outlet</td>
<td>-8</td>
<td>-2</td>
<td>-1</td>
<td>-1</td>
<td>-5</td>
<td>-12</td>
<td>-16</td>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>Surrounding (1pl, 3m)</td>
<td>-26</td>
<td>-22</td>
<td>-23</td>
<td>-30</td>
<td>-34</td>
<td>-48</td>
<td>-47</td>
<td>-51</td>
<td>-27</td>
</tr>
</tbody>
</table>

Filter classification and standards

Filters applied in the air handling units are classified according to EUROMVENT 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. 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 dimensions BxHxL, mm

OTK 700 345x287x46
OTK 1200 558x287x46
OTK 2000 858x287x46
OTK 3000 450x480x96
OTK 4000 450x480x96

Accessories

Supply and Exhaust Filters

99.9% (in amount) of particulates in the outdoor air are smaller than 1 mm. By far 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 EUROMVENT 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.
**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 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.

**Design:**
- Galvanized sheet casing.
- Copper pipes for heat transfer fluid (water).
- Galvanized sheet steel casing. 

**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 casing
- Heating elements
- Electrical part box
- Overheating manual reset

**Accessories**

**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 handling unit where hot water heater is used.

**Air handling unit size**

<table>
<thead>
<tr>
<th>Heater type</th>
<th>60/40 °C</th>
<th>70/50 °C</th>
<th>80/60 °C</th>
<th>90/70 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 400</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 500</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 500v</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 700</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 900</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 900v</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 1200</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 1200h</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 1200v</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 1600</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 2000</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
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<tr>
<td>REGO 2500</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
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<tr>
<td>REGO 3000</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 4000</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
<tr>
<td>REGO 5000</td>
<td>7.1</td>
<td>9.2</td>
<td>11.7</td>
<td>2.2</td>
</tr>
</tbody>
</table>

**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 casing
- Heating elements
- Electrical part box
- Overheating manual reset
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.

Silencers for REGO air handling units

<table>
<thead>
<tr>
<th>Unit size</th>
<th>Silencer type</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 400</td>
<td>A AGS-160-50-600-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-160-50-900-M</td>
</tr>
<tr>
<td></td>
<td>C AGS-160-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-160-50-900-M</td>
</tr>
<tr>
<td>REGO 500V</td>
<td>A AGS-250-50-600-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-250-50-900-M</td>
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<tr>
<td></td>
<td>C AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-250-50-900-M</td>
</tr>
<tr>
<td>REGO 500H</td>
<td>A AGS-200-50-600-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-200-50-900-M</td>
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<tr>
<td></td>
<td>C AGS-200-50-900-M</td>
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<tr>
<td></td>
<td>D AGS-200-50-900-M</td>
</tr>
<tr>
<td>REGO 700</td>
<td>A AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-250-50-900-M</td>
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<tr>
<td></td>
<td>C AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-250-50-900-M</td>
</tr>
<tr>
<td>REGO 900</td>
<td>A AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-250-50-900-M</td>
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<tr>
<td></td>
<td>C AGS-250-50-900-M</td>
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<tr>
<td></td>
<td>D AGS-250-50-900-M</td>
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<tr>
<td>REGO 1200V</td>
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<td>B AGS-250-50-900-M</td>
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<td>C AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-250-50-900-M</td>
</tr>
<tr>
<td>REGO 1200H</td>
<td>A AGS-315-100-900-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-315-100-900-M</td>
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<td></td>
<td>C AGS-315-100-900-M</td>
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<tr>
<td>REGO 1200P</td>
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<td>D AGS-315-100-900-M</td>
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<tr>
<td>REGO 1600V</td>
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<td>D AGS-315-100-900-M</td>
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<tr>
<td>REGO 1600H</td>
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<td>B AGS-315-100-900-M</td>
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<td>C AGS-315-100-900-M</td>
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<td>C AGS-315-100-900-M</td>
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<tr>
<td></td>
<td>D AGS-315-100-900-M</td>
</tr>
</tbody>
</table>

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.

STC-C-B-H-L
C = baffle'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 RECU air handling units

<table>
<thead>
<tr>
<th>Unit size</th>
<th>Silencer type</th>
</tr>
</thead>
<tbody>
<tr>
<td>RECU 400V</td>
<td>A AGS-160-50-600-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-160-50-900-M</td>
</tr>
<tr>
<td></td>
<td>C AGS-160-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-160-50-900-M</td>
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<tr>
<td>RECU 400H</td>
<td>A AGS-200-50-600-M</td>
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<tr>
<td></td>
<td>B AGS-200-50-900-M</td>
</tr>
<tr>
<td></td>
<td>C AGS-200-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-200-50-900-M</td>
</tr>
<tr>
<td>RECU 400</td>
<td>A AGS-200-50-600-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-200-50-900-M</td>
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<td>C AGS-200-50-900-M</td>
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<tr>
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<td>D AGS-200-50-900-M</td>
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<tr>
<td>RECU 400</td>
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<td>C AGS-200-50-900-M</td>
</tr>
<tr>
<td></td>
<td>D AGS-200-50-900-M</td>
</tr>
<tr>
<td>RECU 400</td>
<td>A AGS-200-50-600-M</td>
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<tr>
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<td>B AGS-200-50-900-M</td>
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<tr>
<td></td>
<td>C AGS-200-50-900-M</td>
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Silencers for OTK air handling units

<table>
<thead>
<tr>
<th>Unit size</th>
<th>Silencer type</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTK 700P</td>
<td>A AGS-200-50-600-M</td>
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<td>B AGS-200-50-900-M</td>
</tr>
<tr>
<td>OTK 1200P</td>
<td>A AGS-250-50-900-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-250-50-900-M</td>
</tr>
<tr>
<td>OTK 2000P</td>
<td>A AGS-315-100-900-M</td>
</tr>
<tr>
<td></td>
<td>B AGS-315-100-900-M</td>
</tr>
<tr>
<td>OTK 3000P</td>
<td>A AGS-315-100-900-M</td>
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<tr>
<td></td>
<td>B AGS-315-100-900-M</td>
</tr>
<tr>
<td>OTK 4000P</td>
<td>A AGS-315-100-900-M</td>
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<tr>
<td></td>
<td>B AGS-315-100-900-M</td>
</tr>
</tbody>
</table>

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 damper control possibility in automatic control system.

<table>
<thead>
<tr>
<th>Unit size</th>
<th>Damper</th>
<th>Control system</th>
<th>Actuator</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO-400</td>
<td>AGUJ-M-160</td>
<td>LF24</td>
<td>LM24A</td>
</tr>
<tr>
<td>REGO-500 V</td>
<td>AGUJ-M-200</td>
<td>KOMFOVENT C3</td>
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<tr>
<td>REGO-700</td>
<td>AGUJ-M-250</td>
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<td>REGO-900</td>
<td>AGUJ-M-315</td>
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<tr>
<td>REGO-1200</td>
<td>AGUJ-M-315</td>
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</tr>
<tr>
<td>REGO-1600</td>
<td>SSK-001A</td>
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</tr>
<tr>
<td>REGO-2000</td>
<td>SSK-001A</td>
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</tr>
<tr>
<td>REGO-2500</td>
<td>SSK-001A</td>
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</tr>
<tr>
<td>REGO-3000 V</td>
<td>SSK-001A</td>
<td></td>
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<tr>
<td>REGO-3000 H</td>
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<tr>
<td>REGO-4000 H</td>
<td>SSK-001A</td>
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</tr>
<tr>
<td>REGO-4500 V</td>
<td>SSK-001A</td>
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<tr>
<td>REGO-4500 H</td>
<td>SSK-001A</td>
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</tr>
<tr>
<td>REGO-7000</td>
<td>SSK-001A</td>
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</tr>
</tbody>
</table>

Motorized closing dampers

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.

<table>
<thead>
<tr>
<th>Air handling unit size</th>
<th>Type of hood for supply air</th>
<th>Type of hood for exhaust air</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 500 H</td>
<td>G-350x350</td>
<td>HAIA-200</td>
</tr>
<tr>
<td>REGO 700 H</td>
<td>G-350x350</td>
<td>HAIA-250</td>
</tr>
<tr>
<td>REGO 900 H</td>
<td>G-600x430</td>
<td>HAIA-350</td>
</tr>
<tr>
<td>REGO 1200 H</td>
<td>G-600x430</td>
<td>HAIA-315</td>
</tr>
<tr>
<td>REGO (1600-2000-2500) H</td>
<td>G-600x430</td>
<td>G-600x430</td>
</tr>
<tr>
<td>REGO (3000-4000-4500) H</td>
<td>G-700x650</td>
<td>G-700x650</td>
</tr>
<tr>
<td>REGO 7000 H</td>
<td>V-49-34-00-000.2</td>
<td>V-49-34-00-000.2</td>
</tr>
<tr>
<td>RECU 400 H</td>
<td>G-270x270</td>
<td>HAIA-200</td>
</tr>
<tr>
<td>RECU (700-900) H</td>
<td>G-350x350</td>
<td>HAIA-250</td>
</tr>
<tr>
<td>RECU 700 H</td>
<td>G-600x430</td>
<td>HAIA-350</td>
</tr>
<tr>
<td>RECU (1600-2000) H</td>
<td>G-600x430</td>
<td>HAIA-315</td>
</tr>
<tr>
<td>RECU (3000-4000-4500) H</td>
<td>G-700x650</td>
<td>G-700x650</td>
</tr>
<tr>
<td>RECU 7000 H</td>
<td>V-49-34-00-000.2</td>
<td>V-49-34-00-000.2</td>
</tr>
</tbody>
</table>

| 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.

| Standard base frame for air handling units |

<table>
<thead>
<tr>
<th>Air handling unit size</th>
<th>Frame type</th>
<th>Dimensions BxL</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 400 H</td>
<td>SSK-07.001A</td>
<td>460x100x640</td>
</tr>
<tr>
<td>REGO 500-700 V</td>
<td>SSK-08.001A</td>
<td>585x100x1060</td>
</tr>
<tr>
<td>REGO 500-700 H</td>
<td>SSK-09.001A</td>
<td>585x100x930</td>
</tr>
<tr>
<td>REGO 700-900 V</td>
<td>SSK-10.001A</td>
<td>745x100x1250</td>
</tr>
<tr>
<td>REGO 900-1200 H</td>
<td>SSK-11.001A</td>
<td>745x100x1490</td>
</tr>
<tr>
<td>REGO (1600-2000-2500) H</td>
<td>SSK-12.001A</td>
<td>800x100x1300</td>
</tr>
<tr>
<td>REGO (3000-4000-4500) H</td>
<td>SSK-13.001A</td>
<td>1100x100x1800</td>
</tr>
<tr>
<td>REGO 400 H</td>
<td>SSK-00.001A</td>
<td>340x100x1300</td>
</tr>
<tr>
<td>REGO (500-700) H</td>
<td>SSK-01.001A</td>
<td>440x100x1170</td>
</tr>
<tr>
<td>REGO 700 H</td>
<td>SSK-14.001A</td>
<td>390x100x1300</td>
</tr>
<tr>
<td>REGO 1200 H</td>
<td>SSK-02.001A</td>
<td>650x100x1870</td>
</tr>
<tr>
<td>REGO (1600-2000) H</td>
<td>SSK-03.001A</td>
<td>650x100x1980</td>
</tr>
<tr>
<td>REGO (3000-4000-4500) H</td>
<td>SSK-04.001A</td>
<td>740x100x2655</td>
</tr>
</tbody>
</table>

Note: Standard base 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.

Internal fluid – R410A, water 7/12.

Air cooler is mounted on the outside of the unit.

Water and direct evaporation air coolers accessories the automatic control system of the unit.

Separator and a drain tray. Cooler control function is provided in

45 mm thickness. Cooler section is assembled with a drop separator and a drain tray. Cooler control function is provided in the automatic control system of the unit.

Internal fluid – R410A, water 7/12.

Air cooler is mounted on the outside of the unit.

Water and direct evaporation air coolers accessories the automatic control system of the unit.

Separator and a drain tray. Cooler control function is provided in

45 mm thickness. Cooler section is assembled with a drop separator and a drain tray. Cooler control function is provided in the automatic control system of the unit.

Internal fluid – R410A, water 7/12.
Control System Accessories

**AQ function**

- **Air quality sensor**
  Supply voltage 24V AC/DC. Output signal 0-10V DC. Detected gas: CO, H₂, solvent steam, alcohol steam, cigarette smoke, exhaust steam, exhalatory air.

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

- **CO₂ sensor**
  Supply voltage 24V AC/DC. Output signal 0-10V DC. CO₂ 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.

- **CO₂ switch**
  Relay output. Measured range 450-1800 ppm. Supply voltage 18-32V DC/12-18V AC.

**PC control function**

- **Network module “Ping2”**
  Network module “Ping2” is intended for connection of KOMFOVENT air handling units 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: -100...100, 0...100/200/500/1000/1500/2000/2500 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 – 230V/50 Hz.
- Power – 12W.
- Inputs: analog – 8, digital – 8, pressure – 2.
- 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 panel
- Panel can be used to control unit operation, 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 (21-30°C)

Set point sliding
- Option to shift set value of the supply or room air temperature for the specified period of time

Temperature maintaining mode setting
- The user can select from the panel temperature to be maintained: supply air or room air temperature

Automatic temperature maintaining mode selection
- Depending on the outdoor temperature, maintaining mode can be selected automatically

Ventilation intensity control
- The user may set most economical and effective ventilation intensity level

Remote unit intensity control (OvR)
- 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)
- The ventilation intensity will be controlled by contacts. The fourth level of intensity can be activated with these contacts

Variable air volume control (VAV)
- The unit supplies and exhausts air-volume corresponding to the ventilation requirements in different premises. In case of frequently changing ventilation demand this air volumes maintenance mode significantly reduces the unit exploitation costs

Air quality function (AQF)
- The provided ventilation intensity correction according to the increased CO2, 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 weekly time program
- Weekly program 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
- 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
- The user for the set time period can adjust exhaust air fan speed

Protection functions

Water heater frost protection
- Maximum protection from water freezing

Electric heater overheating protection
- If there is danger of overheating, heater shuts down automatically. The unit is equipped with heater cooling. When unit is shut down during the heating operation, fans will continue to operate for set time period

Plate heat exchanger frost protection
- When there is low outdoor temperature, heat exchanger is protected from freezing

Fan overheating protection
- Fan motor is protected from failure

Rotary heat exchanger rotation guard
- If heat exchanger has a failure, the unit operation is stopped

Emergency shut down in case of fire
- If the unit is connected to the building fire alarm system, in case of fire unit operation is stopped automatically

Emergency shut down according to the temperature value limits
- If supply air temperature reaches emergency level, unit operation is stopped

Distance unit failure indication
- Possibility to indicate unit failure in a distance from the unit

Return water temperature maintenance
- When unit is switched off in winter time, return water temperature of 25°C is maintained in hot water air heater

Other functions

Filter clogging indication
- In case of at least one filter clogging, warning appears on the panel display

Mode operation, temperature and time indication
- Supplied air filter clogging is indicated on the control panel by the red light signal

Failure indication
- In case of failure of a separate unit assembly or elements, the air handling unit is stopped. This is indicated by text message

Language selection
- Control panel provides menu for the language selection

Air flow indication
- Option to monitor unit supply and exhaust air flow (m³/h, m³/s, l/s)

Unit PC control
- Option to manage and control units by computer, when connected to the PC network, or Internet

Application functions

UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

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:

<table>
<thead>
<tr>
<th>Type of the air handling unit</th>
<th>Electric power supply connecting cable, mm²</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO 4000H-EC</td>
<td>3 x 1,5</td>
</tr>
<tr>
<td>REGO 5000HVIE</td>
<td>3 x 1,5</td>
</tr>
<tr>
<td>REGO 7000HVIE</td>
<td>3 x 1,5</td>
</tr>
<tr>
<td>REGO 900HVIE</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 900HVW</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 900HV-E-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 1200HV-E-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 1200HVW-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 1200HV-E-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 1600HVW-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 1600HV-E-EC</td>
<td>5 x 1,5</td>
</tr>
<tr>
<td>REGO 2000HVW-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 2000HV-E-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 2500HVW-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 2500HV-E-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 3000HVW-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 3000HV-E-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 3000HVW-EC</td>
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<tr>
<td>REGO 4000HVW-EC</td>
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<td>REGO 4000HV-E-EC</td>
<td>5 x 2,5</td>
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<tr>
<td>REGO 4500HVW-EC</td>
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<tr>
<td>REGO 4500HV-E-EC</td>
<td>5 x 2,5</td>
</tr>
<tr>
<td>REGO 7000HVW-EC</td>
<td>5 x 1,5</td>
</tr>
</tbody>
</table>

Note in units with KOMFOVENT E3 controller, control panel connecting cable type – 4x0,22 mm²
UAB AMALVA reserves the right to introduce the changes of parameters and sizes in the process of improvement of the air handling units.

### Functional Diagrams

**REGO 400-700**

**REGO 900-7000**

**RECU 400, 700**

**RECU 900, 1200**

**RECU 1600-7000**

**OTK 700–2000**

**OTK 3000–4000**

### Ordering Key

**Ordering key**

<table>
<thead>
<tr>
<th>AHU type</th>
<th>XXXX</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO – units with rotary heat exchanger</td>
<td>RECU – units with plate heat exchanger</td>
<td>OTK – flat supply air units</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit size</td>
<td>Version: H – horizontal, V – vertical, P – flat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air heater: W – water, E – electric, CF – counter cross-flow plate heat exchanger</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inspection side: R – right, L – left</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Motor type: EC, AC</td>
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<tr>
<td>Controller type: C3</td>
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</tr>
<tr>
<td>Filter class</td>
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</tbody>
</table>

**Ordering example Nr.1**

<table>
<thead>
<tr>
<th>AHU type</th>
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<th>X</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGO – units with rotary heat exchanger</td>
<td>REGU 3000 H W – L – EC – C3 – M5</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unit size 3000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal version</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water air heater</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left inspection side</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor type EC</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Controller C3</td>
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<tr>
<td>Filter class M5</td>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**Ordering example Nr.2**

| Supply air unit OTK |
| Flat model |
| Electric air heater 9 kW |
| Controller C3 |

### 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
- **D0** 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.

---

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.