

CHILLED WATER SYSTEMS

Environment-friendly due to water as the energy source

NEW

BioClean-System

Disinfects the room air.

Chillers

Wall-mounted units

Ceiling cassettes

Wall and ceiling chests

Ceiling ventilation units



Issue 2021



REMKO – THE SYSTEM PROVIDER

About REMKO

REMKO is a globally active company for heating and air-conditioning technology. Our highly efficient product range comprises hot air heating systems, dehumidifiers, air-conditioning systems and air-conditioners, as well as future-looking heat pumps. Since 1976, we have grown consistently with the requirements of our customers as a medium-sized company. Extensive experience, innovative product development and reliable service are our strengths when it comes to needs-based solutions in the areas of heating, air-conditioning and dehumidifying.

Services

With our CheckServ offering and a well-developed network of qualified expert partners, we guarantee competent consultation and reliable support. From planning to installation and subsequent maintenance, we are available to our customers as a reliable contact partner at all times. If a malfunction occurs, our emergency service team is happy to help.

Our quality claim

With our products, we do not orient ourselves on existing solutions, but rather we develop and implement our own innovative technical concepts. In the process, our high quality standards for our products has been the foundation of REMKO's success for over 40 years. In cooperation with recognised testing institutes, all REMKO products are tested on our in-house test stands according to the latest European standards. Certificates confirm our sustainable quality assurance system.

Spare part service

In addition to accessory articles, REMKO offers spare parts for all its products that the customer can order conveniently online. The spare part search can also be used to find spare parts for older models. The quickest possible delivery is naturally part of the service provided by REMKO.

<https://www.remko.de/ersatzteil-suche/>



AIR-CONDITIONING

Air-Conditioners
Cold Water Air-Conditioning Systems



HEAT

Mobile Hot Air Heating Systems
Stationary Hot Air Heating Systems



NEW ENERGIES

Heat pumps
Modular power houses



DEHUMIDIFICATION

Dehumidifiers
High-Performance Fans



AIR CLEANING

Air purifier



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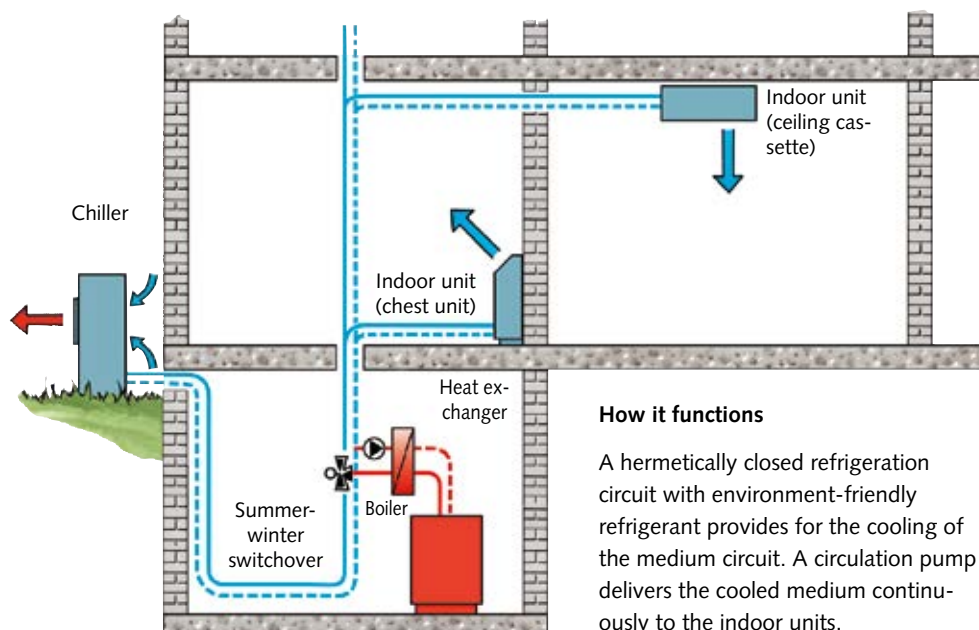
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CHILLED WATER AIR-CONDITIONING SYSTEMS

Use the pipe network all year long:
heat in the winter, cool in the summer

Environment-friendly due to water as the energy source

In the piping between the chiller and the indoor units, water flows as a cooling or a heating medium. In comparison with conventional systems, there are no refrigerants in the rooms being air-conditioned. Refrigerant is only present in the sealed circuit of the chiller. And that is up to 80% less than in the case of conventional refrigerant systems thanks to state-of-the-art technology.



How it functions

A hermetically closed refrigeration circuit with environment-friendly refrigerant provides for the cooling of the medium circuit. A circulation pump delivers the cooled medium continuously to the indoor units.

Compliance with the Eco-Design Directive (2009/125/EC)

To comply with the objectives required by the European Union, energetic requirements are placed on products in a variety of areas. Here, Regulation (EU) 2016/2281 (LOT 21) regulates minimum requirements on chillers. The chillers of REMKO correspond with the pertinent energetic requirements of the Eco-Design Directive, therefore contributing not inconsiderably to the reduction of harmful emissions connected to the consumption of energy. At the same time, the efficiency optimised operation of the unit leads to a reduction in the operating costs for the customer.

Cold-water air-conditioning systems in use

The comfort air-conditioning of larger buildings is an important area of application for chilled-water air-conditioning systems. In addition, they are used commercially wherever waste heat arises and must be dissipated. This includes production processes in the automobile and food industry, for example.

Chillers are used to cool machines, computers or MRI machines in hospitals and generate suitable temperature for the storage of food and other goods.



Cooling of the following:

- Production halls
- Baking/painting lines
- Printing machines
- Food and other cooled goods
- Computer centres
- MRI machines

Air conditioning of the following:

- Office buildings
- Shopping centres
- Clinics
- Hotels



Simple installation

The chiller is set up outside. Due to the robust construction, a long service life of the units is guaranteed.

The installation can be implemented quickly and easily by corresponding specialist companies. Numerous adaptation options in the selection of the device permit tailored solutions for various areas of application. The connection of the indoor units saves time and can be performed without effort. The units are flexible and can be mounted on the floor, on the wall, or also beneath the ceiling.

Sustainability

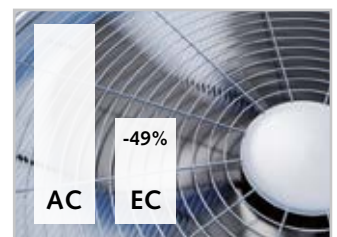
Resources are saved using state-of-the-art components as electricity costs are reduced considerably in comparison with conventional units.

Optimised unit parameters

Through the adaptation of all operating parameters and components used, the processes in the refrigeration and hydraulic circuits are optimally adapted to each other, thereby guaranteeing stable control behaviour under all operating conditions.

EC fans

The state-of-the-art, infinitely variable fan motors adapt the fan speed exactly to the respective cooling requirement. In addition to a reduction of the operating costs, a higher control comfort is achieved. EC fans have 49% higher savings than AC axial fans



Enlarging the heat exchanger surfaces

The use of heat exchangers that have been especially adapted to each other contributes to the maximisation of the energy yield.

Comfortable regulation

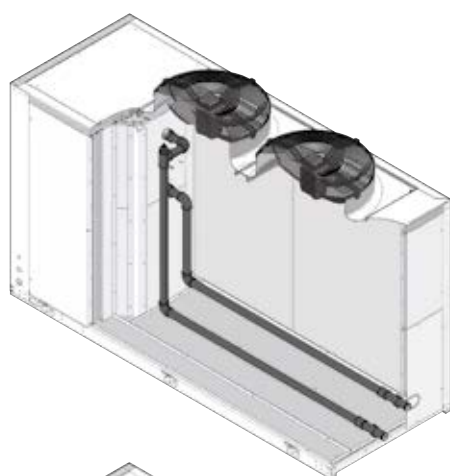
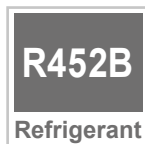
Just like the automatic air-conditioning system in a car, the controller ensures a constant room temperature. Depending on the indoor unit used, various control options are available, such as a unit control panel, a room temperature controller, or an infrared remote control.

CHILLED WATER AIR-CONDITIONING SYSTEMS

Technology in detail

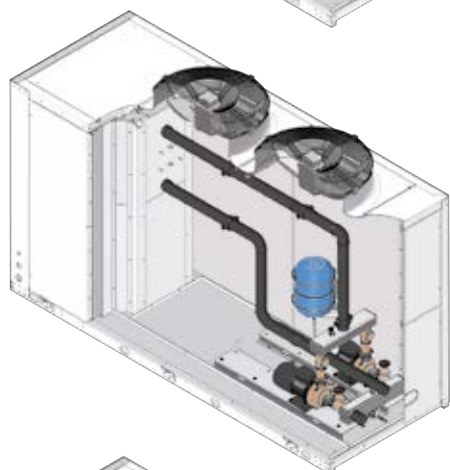
Units for every need

Thanks to their modular design, REMKO chillers can be configured individually for every application. Here, in addition to units without hydraulic components, additional components such as a medium tank or pumps of different pressure stages can be selected. Furthermore, a variety of optional accessory articles are available to adapt the units to the respective operating conditions. The state-of-the-art EC fans installed at the factory guarantee an efficient operation of the units.



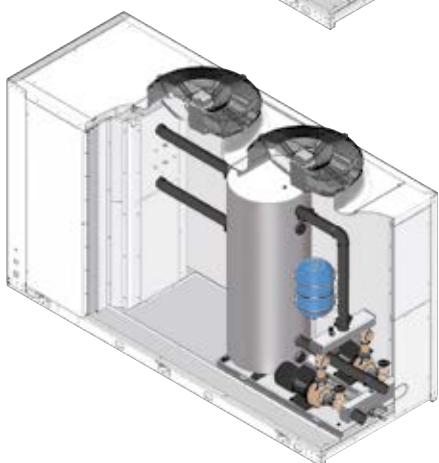
Chillers without media components

In the basic version, the devices only have a basic set of hydraulic equipment. This version makes sense if the pump and tank are already available on site. The unit can therefore be integrated into an existing system while previously existing components can continue to be used.



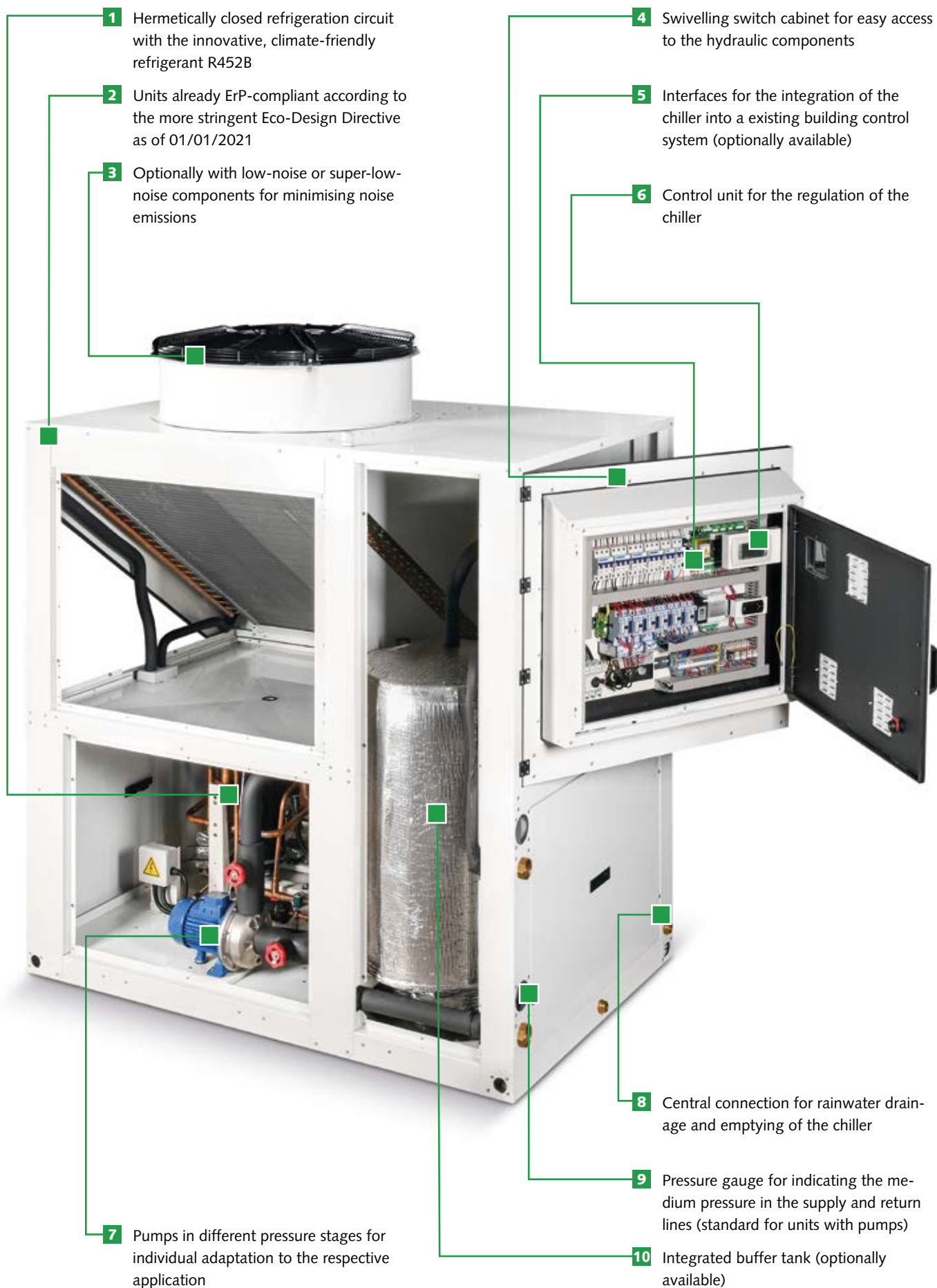
Chillers with pump and membrane expansion vessel

The unit version with pump lets you integrate the unit into an existing system in which a tank system already exists. If a hydraulic system with tank exists, this system can be supplied with cooled medium by the chiller. Depending on the unit series, pumps are also available in different pressure stages so that the pump can be selected for the requirements of the respective application.



Chillers with tank, pump and membrane expansion vessel

In addition to a special requirement on the pipe network or savings on glycol indoors, there are many reasons to hydraulically separate a chiller from the overall system. If this is desired or required, the chiller can also be equipped with a pump and tank.



REMKO RVS DC SERIES

Chillers for cooling and heating



In addition, the units have state-of-the-art, energy-efficient EC fans in the standard version. These fans provide considerable cost savings in comparison with conventional AC technology, especially in the partial load range. The interaction from the optimisation of the heat exchanger surfaces, use of highly efficient components and the optimisation of all operation-related system parameters ensures that the units have a very high degree of efficiency and therefore already correspond with the high energetic requirements of the Eco-Design Directive 2021.

In addition, the devices are available in a special low-temperature version in which particularly low medium inlet temperatures of -2°C can be implemented.

REMKO RVS DC SERIES

With inverter technology

The units of the RVS 50-260 DC series, with an output range between 4.7 and 26.0 kW, are particularly quiet, air-cooled chillers for outdoor installation. Due to the standard heat pump function, the units can be used for both cooling and heating.

During cooling, the application limits of the units lie at -15°C , whereby the units are also suitable for process applications that have to be cooled throughout the year. Both the inverter condenser used and the infinitely variable expansion valve guarantee a needs-based adaptation of the cooling capacity to the pertinent application conditions.

- Variable power control thanks to the inverter condenser and electronic expansion valve
- Various switch contacts for integration into a building control system
- State-of-the-art touchpad in an IP54 housing for easy operation
- Application of cooling mode up to -15°C in the standard version
- Heating operation thanks to EVI injection down to -30°C outside temperature (RVS 220-260 DC)
- Low temperature version for low inlet temperatures optionally available
- Modbus interface RS485 included
- Units are ErP-compliant according to the Eco-Design Directive



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values

Ref. no.

1657231



External mains switch

As a main or repair switch for a chiller.

Ref. no.

1611485



Vibration damper set

For chillers, required quantity included in the set.

Ref. no.

1655161



Glycol concentrate

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water

Ref. no.

20 l canister

1611414

210 l drum

1611415



Technical data

| Unit type | | RVS 50 DC | RVS 80 DC | RVS 130 DC | RVS 180 DC | RVS 220 DC | RVS 260 DC |
|---|---------|-------------------|--|---------------------|-------------------|-------------------------------------|-------------------|
| Cooling capacity ¹⁾ | kW | 4.7 (1.6-5.6) | 7.6 (2.0-10.0) | 13.5 (5.0-14.5) | 16.9 (7.0-20.0) | 19.3 (8.5-22.0) | 22.5 (10.3-26.0) |
| Heating capacity ²⁾ | kW | 4.3 (2.0-6.8) | 8.5 (2.5-10.8) | 12.3 (5.0-17.3) | 18.0 (7.0-25.1) | 26.0 (9.5-27.3) | 28.2 (11.0-31.5) |
| Energy efficiency size SEER | | 3.88 | 4.33 | 5.01 | 4.15 | 4.15 | 4.15 |
| Annual degree of effective use of room cooling n _{s,c} | % | 152 | 170 | 195 | 163 | 163 | 163 |
| Cooling return temperature adjusting range | °C | | +10 to +20 / +3 to +20 ⁴⁾ | | | +7 to +25 / +3 to +20 ⁴⁾ | |
| Heating return temperature adjusting range | °C | | +30°C to +50 | | | +25 to +60 | |
| Operating range, cooling | °C | | -15°C to +45 | | | -15 to +45 | |
| Operating range, heating | °C | | -20°C to +52 | | | -30 to +43 | |
| Number of cooling circuits | | 1 | 1 | 1 | 1 | 1 | 1 |
| Refrigerant | | R410A | R410A | R410A | R410A | R410A | R410A |
| GWP value | | 2088 | 2088 | 2088 | 2088 | 2088 | 2088 |
| Refrigerant filling amount | kg | 1.7 | 2.4 | 3.2 | 4.4 | 4.5 | 5.0 |
| CO ₂ equivalent | d | 3.55 | 5.01 | 6.68 | 9.19 | 9.40 | 10.44 |
| Compressor, number/type | | 1 / rotary piston | 1 / rotary piston | 1 / rotary piston | 1 / rotary piston | 1 / rotary piston | 1 / rotary piston |
| Nominal air flow rate | m³/h | 3650 | 3650 | 7300 | 8100 | 13000 | 15000 |
| Number of fans | | 1 | 1 | 2 | 2 | 2 | 2 |
| Sound pressure level ³⁾ | dB(A) | 37.3 | 37.3 | 41.7 | 46.2 | 47.0 | 48.0 |
| Sound power level | dB(A) | 68.5 | 68.5 | 73.1 | 77.6 | 78.0 | 79.0 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 400 / 3~/50 | 400/3~/50 | 400/3~/50 |
| Type of protection | | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 |
| Electrical nominal power consumption, cooling | kW | 1.3 | 2.3 | 4.5 | 5.5 | 7.8 | 9.0 |
| Electrical nominal current consumption, cooling | A | 5.6 | 10.4 | 20.7 | 9.5 | 13.3 | 14.9 |
| Operating medium | | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | |
| Max. medium operating pressure | kPa | 600 | 600 | 600 | 600 | 600 | 600 |
| Nominal volume flow rate of medium, cooling | m³/h | 1.0 | 1.6 | 2.8 | 4.2 | 3.2 | 3.6 |
| Minimum volume flow rate, medium | m³/h | 0.62 | 1.00 | 1.75 | 2.63 | 2.4 | 2.8 |
| Maximum volume flow rate, medium | m³/h | 1.68 | 2.70 | 4.70 | 7.00 | 6.3 | 7.4 |
| Internal pressure loss | kPa | 10 | 24 | 105 | 71 | 126 | 195 |
| Medium port, inlet | " | 1 | 1 | 1 1/4 | 1 1/4 | 1 1/4 | 1 1/4 |
| Medium port, outlet | " | 1 | 1 | 1 1/4 | 1 1/4 | 1 1/2 | 1 1/2 |
| Dimensions - height | mm | 790 | 910 | 1320 | 1592 | 1600 | 1600 |
| Dimensions - width | mm | 1008 | 953 | 996 | 1175 | 1175 | 1175 |
| Dimensions - depth | mm | 463 | 445 | 395 | 400 | 400 | 400 |
| Weight | kg | 95 | 110 | 148 | 219 | 206 | 240 |
| Serial colour | | | | similar to RAL 9010 | | | |
| Chiller with pump | | | | | | | |
| System pressure available, cooling | kPa | 51 | 99 | 101 | 150 | 84 | 125 |
| Power consumption, pump | kW | 0.05 | 0.18 | 0.5 | 0.65 | 0.35 | 0.50 |
| Current consumption, pump | A | 0.4 | 0.7 | 2.8 | 1.7 | 0.56 | 0.80 |
| Chiller with pump | | | | | | | |
| Ref. no. | | 1611692 | 1611693 | 1611694 | 1611695 | 1611677 | 1611679 |
| Chiller with pump in stainless steel design | | | | | | | |
| Ref. no. | | 1611696 | 1611697 | 1611698 | 1611699 | 1611678 | 1611680 |

¹⁾ Air inlet temperature TK 35°C, medium inlet 12°C, medium outlet 7°C, 0% glycol concentration

³⁾ Distance of 10 m in the open air

²⁾ Air inlet temperature TK 7°C, medium inlet 45°C, medium outlet 40°C, 0% glycol concentration

⁴⁾ Low-temperature accessories

REMKO KWE 290-800 ECO SERIES

Chiller for cooling



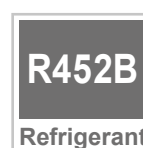
REMKO KWE 290-800 ECO SERIES

The air-cooled chillers of the KWE Eco series in the power range from 28.7 to 79.3 kW can be individually configured for any application thanks to their modular design. In the hermetically sealed system of the chiller for outdoor installation, the innovative and climate-friendly refrigerant R452B is used. The selection of pumps in various pressure ratings allows the hydraulic components to be individually adapted to the respective application.

The pressure gauges already installed ex works in the hydraulic circuit and the accessibility of the essential hydraulic components via the opening of the swivelling control cabinet facilitate installation and commissioning, thus ensuring maximum service friendliness.

In addition, thanks to the selection of state-of-the-art components and the optimisation of all device parameters, the devices comply with the energy requirements of the more stringent Eco-Design Directive.

- Hydraulic components individually configurable
- Easy access to the essential device components
- Future-proof thanks to climate-friendly refrigerant R452B
- Optional components to reduce noise emissions available
- Integration into an existing building control system possible
- Units are ErP-compliant according to the Eco-Design Directive



Technical data

| Unit type | |
|---|-------------------|
| Nominal cooling capacity ¹⁾ | kW |
| Energy efficiency rating EER ¹⁾ | |
| Energy efficiency size SEER | |
| Annual utilisation factor of room cooling, $\eta_{s,c}$ | % |
| Cooling return temperature adjusting range | °C |
| Operating range, cooling | °C |
| Number of cooling circuits | |
| Refrigerant | |
| GWP value | |
| Refrigerant filling quantity (per circuit) | kg |
| CO ₂ equivalent | d |
| Compressor, number/type | |
| Max. air volume flow rate | m ³ /h |
| Number of fans | |
| Sound pressure level ³⁾ | dB(A) |
| Sound power level | dB(A) |
| Voltage supply | V/Ph/Hz |
| Type of protection | |
| Electrical nominal power consumption, cooling | kW |
| Electrical nominal current consumption, cooling | A |
| Operating medium | |
| Max. medium operating pressure | kPa |
| Nominal volume flow rate of medium, cooling | m ³ /h |
| Internal pressure loss | kPa |
| Medium port, inlet | Inch |
| Medium port, outlet | Inch |
| Dimensions | |
| Weight | kg |
| Serial colour | |
| Chillers with standard pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-pressure pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-performance pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with tank | |
| Medium content, tank | l |
| Chiller with low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |
| Chiller with super-low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |

¹⁾ Air inlet temperature TK 35 °C, medium inlet 12 °C, medium outlet 7 °C, 0% glycol concentration



| KWE 290 Eco | KWE 330 Eco | KWE 380 Eco | KWE 430 Eco | KWE 500 Eco | KWE 550 Eco | KWE 640 Eco | KWE 730 Eco | KWE 800 Eco |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 28.7 | 32.7 | 37.7 | 42.5 | 50.0 | 55.3 | 64.1 | 73.2 | 79.3 |
| 2.9 | 3.1 | 3.0 | 3.3 | 3.6 | 3.3 | 3.0 | 3.2 | 2.8 |
| 4.1 | 4.1 | 4.1 | 4.7 | 5.1 | 4.7 | 4.7 | 5.2 | 4.8 |
| 163 | 162 | 164 | 181 | 194 | 181 | 181 | 201 | 182 |
| +5 to +18 | | | | | | | | |
| +5 to +48 / -15 to +48 ⁴⁾ | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| R452B | R452B | R452B | R452B | R452B | R452B | R452B | R452B | R452B |
| 676 | 676 | 676 | 676 | 676 | 676 | 676 | 676 | 676 |
| 13.0 | 13.5 | 14.0 | 16.0 | 8.5 | 9.0 | 9.0 | 10.0 | 10.0 |
| 8.79 | 9.13 | 9.46 | 10.82 | 5.75 | 6.08 | 6.08 | 6.76 | 6.76 |
| 1 / scroll | 1 / scroll | 1 / scroll | 2 / scroll | 2 / scroll | 2 / scroll | 2 / scroll | 2 / scroll | 2 / scroll |
| 19500 | 19500 | 19500 | 19500 | 19500 | 19500 | 19500 | 19500 | 19500 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 47.2 | 48.5 | 49.7 | 51.2 | 50.6 | 55.4 | 55.4 | 55.2 | 55.2 |
| 78.9 | 80.2 | 81.4 | 82.9 | 82.3 | 87.1 | 87.1 | 86.8 | 86.8 |
| 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 |
| IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 |
| 7.7 | 9.1 | 10.0 | 12.7 | 14.0 | 16.8 | 20.2 | 22.6 | 26.3 |
| 14.0 | 16.4 | 18.1 | 23.0 | 25.2 | 30.4 | 36.4 | 40.8 | 47.5 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | | |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 5.1 | 5.9 | 6.6 | 7.3 | 8.6 | 9.5 | 11.0 | 12.6 | 13.8 |
| 46.3 | 57.8 | 46.2 | 57.5 | 56.7 | 50.2 | 68.6 | 58.5 | 54.1 |
| 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 2" | 2" | 2" | 2" | 2" |
| 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 2" | 2" | 2" | 2" | 2" |
| Varies depending on the unit configuration. For details, see the technical documentation | | | | | | | | |
| 343 | 345 | 360 | 415 | 435 | 455 | 455 | 615 | 620 |
| similar to RAL 9018 | | | | | | | | |
| 110.4 | 120.7 | 123.0 | 102.7 | 89.8 | 121.5 | 90.4 | 86.9 | 82.2 |
| 221.9 | 200.9 | 199.8 | 175.6 | 154.7 | 225.6 | 195.2 | 192.3 | 187.8 |
| 306.4 | 286.1 | 286.1 | 263.3 | 245.0 | 286.8 | 253.2 | 247.2 | 241.0 |
| 150 | 150 | 150 | 150 | 150 | 150 | 150 | 225 | 225 |
| 43.4 | 44.7 | 45.9 | 47.4 | 46.8 | 51.6 | 51.6 | 51.4 | 51.4 |
| 37.8 | 39.1 | 39.5 | 41.0 | 40.4 | 45.3 | 45.3 | 45.1 | 45.1 |

³⁾ Distance 10 m in open air

⁴⁾ With winter fan speed control accessories

REMKO KWE 290-800 ECO SERIES

Chiller for cooling

Chiller

| Unit type | KWE 290 Eco | KWE 330 Eco | KWE 380 Eco |
|---|-------------|-------------|-------------|
| In the standard version | 1704290 | 1704330 | 1704380 |
| Optional components for noise reduction | | | |
| Low-noise kit | 1657430 | 1657430 | 1657430 |
| Super-low-noise kit | 1657440 | 1657440 | 1657440 |
| Optional hydraulic components | | | |
| Standard pump and pressure gauge | 1657301 | 1657302 | 1657302 |
| High-pressure pump and pressure gauge | 1657311 | 1657311 | 1657311 |
| High-performance pump and pressure gauge | 1657321 | 1657321 | 1657321 |
| Tank, standard pump, MAG, pressure gauge and anti-frost protection heater | 1657331 | 1657332 | 1657332 |
| Tank, high-pressure pump, MAG, pressure gauge and anti-frost protection heater | 1657341 | 1657341 | 1657341 |
| Tank, high-performance pump, MAG, pressure gauge and anti-frost protection heater | 1657351 | 1657351 | 1657351 |
| Accessories | | | |
| Glycol 20 l canister | 1611414 | 1611414 | 1611414 |
| Glycol 210 l drum | 1611415 | 1611415 | 1611415 |
| Cabled remote control | 1657228 | 1657228 | 1657228 |
| Condenser protection grid | 1657360 | 1657360 | 1657360 |
| Vibration damper (for units without a tank) | 1657450 | 1657450 | 1657450 |
| Vibration damper (for units with a tank) | 1657451 | 1657451 | 1657451 |
| Medium circuit pressure gauge (for units without hydraulic components) | 1657415 | 1657415 | 1657415 |
| Crankcase heater | Series | Series | Series |
| Electronic expansion valve | Series | Series | Series |
| Winter fan speed control | 1657420 | 1657420 | 1657420 |
| Soft start | 1657381 | 1657381 | 1657382 |
| Switch cabinet ventilation | 1657401 | 1657401 | 1657401 |
| Switch cabinet heater | 1657405 | 1657405 | 1657405 |
| Modbus interface RS485 | 1657410 | 1657410 | 1657410 |

Other accessories upon request



Glycol concentrate 20 l canister

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Glycol concentrate 210 l plastic drum

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values.



Condenser protection grid, installed

For chillers with protection against damage to the device fins or personal injury in case of installation in danger zones



Vibration damper set

For chillers, required quantity included in the set.



Medium circuit pressure gauge, installed

For displaying the system pressure in the medium circuit. Standard on machines with hydraulic components.



Compressor crankcase heater, installed

For heating the oil sump when the unit is not in operation and the outside temperature is low. Standard for all units.



Soft start, installed

For the limitation of the starting current in starting torque by up to 45%, depending on the unit size.

| KWE 430 Eco | KWE 500 Eco | KWE 550 Eco | KWE 640 Eco | KWE 730 Eco | KWE 800 Eco |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 1704430 | 1704500 | 1704550 | 1704640 | 1704730 | |
| 1657430 | 1657430 | 1657430 | 1657431 | 1657431 | 1657431 |
| 1657440 | 1657440 | 1657440 | 1657441 | 1657441 | 1657441 |
| 1657302 | 1657302 | 1657303 | 1657303 | 1657303 | 1657303 |
| 1657311 | 1657311 | 1657312 | 1657312 | 1657312 | 1657312 |
| 1657321 | 1657321 | 1657322 | 1657322 | 1657322 | 1657322 |
| 1657332 | 1657332 | 1657333 | 1657333 | 1657333 | 1657333 |
| 1657341 | 1657341 | 1657342 | 1657342 | 1657342 | 1657342 |
| 1657351 | 1657351 | 1657352 | 1657352 | 1657352 | 1657352 |
| 1611414 | 1611414 | 1611414 | 1611414 | 1611414 | 1611414 |
| 1611415 | 1611415 | 1611415 | 1611415 | 1611415 | 1611415 |
| 1657228 | 1657228 | 1657228 | 1657228 | 1657228 | 1657228 |
| 1657360 | 1657361 | 1657361 | 1657361 | 1657362 | 1657362 |
| 1657450 | 1657450 | 1657450 | 1657450 | 1657451 | 1657451 |
| 1657451 | 1657452 | 1657452 | 1657452 | 1657452 | 1657452 |
| 1657415 | 1657415 | 1657415 | 1657415 | 1657415 | 1657415 |
| Series | Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series | Series |
| 1657420 | 1657420 | 1657420 | 1657420 | 1657420 | 1657420 |
| 1657382 | 1657383 | 1657383 | 1657384 | 1657385 | 1657385 |
| 1657401 | 1657401 | 1657401 | 1657401 | 1657401 | 1657401 |
| 1657405 | 1657405 | 1657405 | 1657405 | 1657405 | 1657405 |
| 1657410 | 1657410 | 1657410 | 1657410 | 1657410 | 1657410 |



Switch cabinet ventilation, installed

For dissipating trapped heat in the control cabinet at high ambient temperatures.



Winter pressure control set, installed

For the expansion of the operating limits of the chiller in cooling operation to -15°C. Consists of EC fans and additional measurement and control components.



Modbus interface RS485, installed

For the integration of the chiller to an existing building control system with Modbus data protocol, polling of error messages, sensor values, relay statuses, operating runtimes of pump and compressors, and the polling and setting of set values.



Switch cabinet heater, installed

For avoiding condensation in the switch cabinet due to temperature fluctuations at low ambient temperatures.

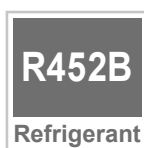
Other special accessories are available on request.

For example:

- Double pump for redundant operation
- Coated head exchanger for operation in aggressive ambient air
- And much more

REMKO KWE 970-1550 ECO SERIES

Chiller for cooling



REMKO KWE 970-1550 ECO SERIES

The air-cooled chillers of the KWE Eco series in the power range from 97.2 to 155.3 kW can be individually configured for any application thanks to their modular design. In the hermetically sealed system of the chiller for outdoor installation, the innovative and climate-friendly refrigerant R452B is used. The selection of pumps in various pressure ratings allows the hydraulic components to be individually adapted to the respective application.

The pressure gauges already installed ex works in the hydraulic circuit and the accessibility of the essential hydraulic components via the opening of the swivelling control cabinet facilitate installation and commissioning, thus ensuring maximum service friendliness.

In addition, thanks to the selection of state-of-the-art components and the optimisation of all device parameters, the devices comply with the energy requirements of the more stringent Eco-Design Directive.

- Hydraulic components individually configurable
- Easy access to the essential device components
- Future-proof thanks to climate-friendly refrigerant R452B
- Optional components to reduce noise emissions available
- Integration into an existing building control system possible
- Units are ErP-compliant according to the Eco-Design Directive

Technical data

| | |
|---|-------------------|
| Unit type | |
| Nominal cooling capacity ¹⁾ | kW |
| Energy efficiency rating EER ¹⁾ | |
| Energy efficiency size SEER | |
| Annual utilisation factor of room cooling, $\eta_{s,c}$ | % |
| Cooling return temperature adjusting range | °C |
| Operating range, cooling | °C |
| Number of cooling circuits | |
| Refrigerant | |
| GWP value | |
| Refrigerant filling quantity (per circuit) | kg |
| CO ₂ equivalent | d |
| Compressor, number/type | |
| Max. air volume flow rate | m ³ /h |
| Number of fans | |
| Sound pressure level ³⁾ | dB(A) |
| Sound power level | dB(A) |
| Voltage supply | V/Ph/Hz |
| Type of protection | |
| Electrical nominal power consumption, cooling | kW |
| Electrical nominal current consumption, cooling | A |
| Operating medium | |
| Max. medium operating pressure | kPa |
| Nominal volume flow rate of medium, cooling | m ³ /h |
| Internal pressure loss | kPa |
| Medium port, inlet | Inch |
| Medium port, outlet | Inch |
| Dimensions | |
| Weight | kg |
| Serial colour | |
| Chillers with standard pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-pressure pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-performance pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with tank | |
| Medium content, tank | l |
| Chiller with low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |
| Chiller with super-low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |

Available as of June 2020

¹⁾ Air inlet temperature TK 35 °C, medium inlet 12 °C, medium outlet 7 °C, 0% glycol concentration



| KWE 970 Eco | KWE 1060 Eco | KWE 1150 Eco | KWE 1240 Eco | KWE 1320 Eco | KWE 1400 Eco | KWE 1480 Eco | KWE 1550 Eco |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 97.2 | 106.4 | 115.9 | 123.9 | 132.6 | 140.5 | 148.3 | 155.3 |
| 3.3 | 3.2 | 3.0 | 3.0 | 3.1 | 3.2 | 3.1 | 3.1 |
| 5.4 | 5.5 | 4.8 | 4.8 | 4.9 | 5.0 | 4.9 | 4.9 |
| 208 | 212 | 184 | 182 | 188 | 192 | 187 | 183 |
| +5 to +18 | | | | | | | |
| +5 to +48 / -15 to +48 ⁵⁾ | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| R452B | R452B | R452B | R452B | R452B | R452B | R452B | R452B |
| 676 | 676 | 676 | 676 | 676 | 676 | 676 | 676 |
| 12.5 | 12.5 | 13.0 | 13.5 | 13.5 | 14.0 | 14.5 | 15.0 |
| 8.45 | 8.45 | 8.79 | 9.13 | 9.13 | 9.46 | 9.80 | 10.14 |
| 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll |
| 28000 | 39000 | 39000 | 39000 | 39000 | 39000 | 39000 | 39000 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 52.6 | 57.3 | 57.2 | 58.1 | 58.1 | 58.8 | 58.8 | 58.8 |
| 84.4 | 89.1 | 89.1 | 90.0 | 90.0 | 90.7 | 90.7 | 90.7 |
| 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 |
| IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 |
| 28.6 | 33.4 | 37.0 | 42.0 | 43.0 | 44.0 | 48.1 | 52.1 |
| 51.6 | 60.3 | 66.8 | 75.8 | 77.6 | 79.5 | 86.8 | 94.1 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 16.2 | 17.7 | 20.0 | 21.3 | 22.8 | 24.2 | 25.5 | 26.7 |
| 56.2 | 67.3 | 49.4 | 55.5 | 52.4 | 45.1 | 49.6 | 37.5 |
| 2 1/2" | 2 1/2" | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 |
| 2 1/2" | 2 1/2" | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 |
| Varies depending on the unit configuration. For details, see the technical documentation | | | | | | | |
| 962 | 968 | 1048 | 1069 | 1096 | 1343 | 1354 | 1365 |
| similar to RAL 9018 | | | | | | | |
| 103.4 | 88.3 | 101.9 | 91.9 | 90.7 | 93.8 | 85.3 | 93.6 |
| 183.6 | 168.6 | 182.2 | 172.2 | 171.0 | 174.0 | 165.4 | 173.6 |
| 207.8 | 195.8 | 212.8 | 205.7 | 207.7 | 213.8 | 208.1 | 219.0 |
| 200 | 200 | 375 | 375 | 375 | 375 | 375 | 375 |
| 48.8 | 53.5 | 53.4 | 54.3 | 54.3 | 55.0 | 55.0 | 55.0 |
| 43.1 | 47.2 | 47.1 | 47.9 | 47.9 | 48.6 | 48.6 | 48.6 |

³⁾ Distance 10 m in open air

⁵⁾ With winter fan speed control accessories

REMKO KWE 970-1550 ECO SERIES

Chiller for cooling

Chiller

| Unit type | KWE 970 Eco | KWE 1060 Eco | KWE 1150 Eco |
|---|-------------|--------------|--------------|
| In the standard version | 1704970 | 1705060 | 1705150 |
| Optional components for noise reduction | | | |
| Low-noise kit | 1657432 | 1657432 | 1657432 |
| Super-low-noise kit | 1657442 | 1657442 | 1657442 |
| Optional hydraulic components | | | |
| Standard pump and pressure gauge | 1657304 | 1657304 | 1657304 |
| High-pressure pump and pressure gauge | 1657313 | 1657313 | 1657313 |
| High-performance pump and pressure gauge | 1657323 | 1657323 | 1657323 |
| Tank, standard pump, MAG, pressure gauge and anti-frost protection heater | 1657334 | 1657334 | 1657334 |
| Tank, high-pressure pump, MAG, pressure gauge and anti-frost protection heater | 1657343 | 1657343 | 1657343 |
| Tank, high-performance pump, MAG, pressure gauge and anti-frost protection heater | 1657353 | 1657353 | 1657353 |
| Accessories | | | |
| Glycol 20 l canister | 1611414 | 1611414 | 1611414 |
| Glycol 210 l drum | 1611415 | 1611415 | 1611415 |
| Cabled remote control | 1657228 | 1657228 | 1657228 |
| Condenser protection grid | 1657363 | 1657363 | 1657363 |
| Vibration damper (for units without a tank) | 1657452 | 1657452 | 1657452 |
| Vibration damper (for units with a tank) | 1657454 | 1657454 | 1657453 |
| Medium circuit pressure gauge (for units without hydraulic components) | 1657415 | 1657415 | 1657415 |
| Crankcase heater | Series | Series | Series |
| Electronic expansion valve | Series | Series | Series |
| Winter fan speed control | 1657421 | 1657421 | 1657421 |
| Soft start | 1657386 | 1657387 | 1657387 |
| Switch cabinet ventilation | 1657401 | 1657401 | 1657401 |
| Switch cabinet heater | 1657405 | 1657405 | 1657405 |
| Modbus interface RS485 | 1657410 | 1657410 | 1657410 |

Other accessories upon request



Glycol concentrate 20 l canister

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Glycol concentrate 210 l plastic drum

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values.



Condenser protection grid, installed

For chillers with protection against damage to the device fins or personal injury in case of installation in danger zones



Vibration damper set

For chillers, required quantity included in the set.



Medium circuit pressure gauge, installed

For displaying the system pressure in the medium circuit. Standard on machines with hydraulic components.



Compressor crankcase heater, installed

For heating the oil sump when the unit is not in operation and the outside temperature is low. Standard for all units.



Soft start, installed

For the limitation of the starting current in starting torque by up to 45%, depending on the unit size.

| KWE 1240 Eco | KWE 1320 Eco | KWE 1400 Eco | KWE 1480 Eco | KWE 1550 Eco |
|--------------|--------------|--------------|--------------|--------------|
| 1705240 | 1705320 | 1705400 | 1705480 | 1705550 |
| 1657432 | 1657432 | 1657432 | 1657432 | 1657432 |
| 1657442 | 1657442 | 1657442 | 1657442 | 1657442 |
| 1657304 | 1657304 | 1657304 | 1657304 | 1657304 |
| 1657313 | 1657313 | 1657313 | 1657313 | 1657313 |
| 1657323 | 1657323 | 1657323 | 1657323 | 1657323 |
| 1657334 | 1657334 | 1657334 | 1657334 | 1657334 |
| 1657343 | 1657343 | 1657343 | 1657343 | 1657343 |
| 1657353 | 1657353 | 1657353 | 1657353 | 1657353 |
| 1611414 | 1611414 | 1611414 | 1611414 | 1611414 |
| 1611415 | 1611415 | 1611415 | 1611415 | 1611415 |
| 1657228 | 1657228 | 1657228 | 1657228 | 1657228 |
| 1657363 | 1657363 | 1657363 | 1657363 | 1657363 |
| 1657452 | 1657452 | 1657454 | 1657454 | 1657454 |
| 1657453 | 1657453 | 1657456 | 1657456 | 1657456 |
| 1657415 | 1657415 | 1657415 | 1657415 | 1657415 |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| 1657421 | 1657421 | 1657421 | 1657421 | 1657421 |
| 1657387 | 1657388 | 1657389 | 1657389 | 1657389 |
| 1657401 | 1657401 | 1657401 | 1657401 | 1657401 |
| 1657405 | 1657405 | 1657405 | 1657405 | 1657405 |
| 1657410 | 1657410 | 1657410 | 1657410 | 1657410 |



Switch cabinet ventilation, installed

For dissipating trapped heat in the control cabinet at high ambient temperatures.



Winter pressure control set, installed

For the expansion of the operating limits of the chiller in cooling operation to -15°C. Consists of EC fans and additional measurement and control components.



Modbus interface RS485, installed

For the integration of the chiller to an existing building control system with Modbus data protocol, polling of error messages, sensor values, relay statuses, operating runtimes of pump and compressors, and the polling and setting of set values.



Switch cabinet heater, installed

For avoiding condensation in the switch cabinet due to temperature fluctuations at low ambient temperatures.

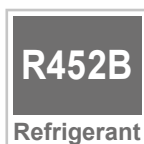
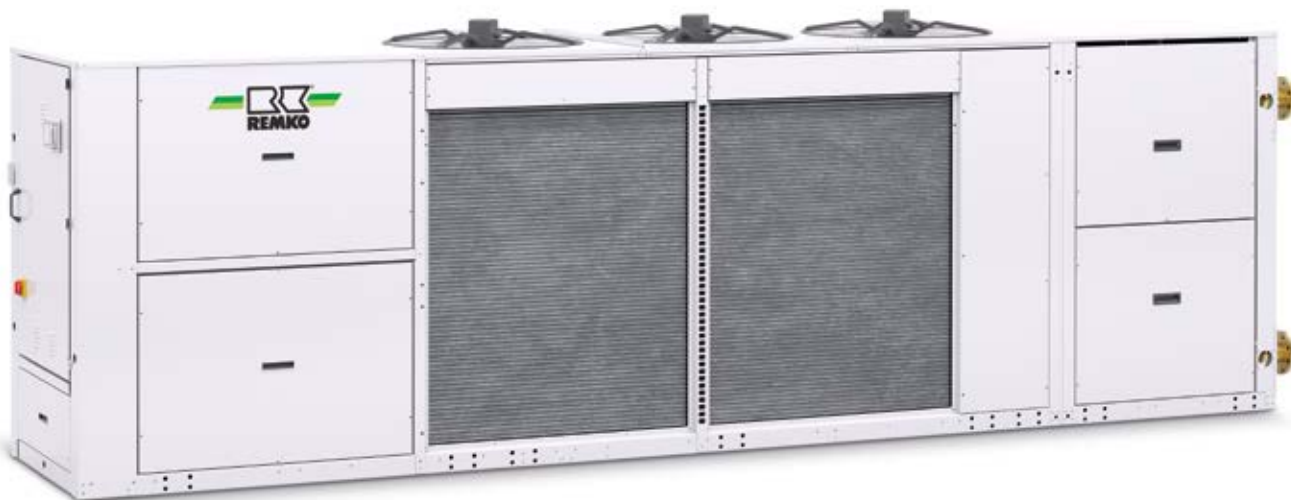
Other special accessories are available on request.

For example:

- Double pump for redundant operation
- Coated heat exchanger for operation in aggressive ambient air
- And much more

REMKO KWE 1600-3150 ECO SERIES

Chiller for cooling



REMKO KWE 1600-3150 ECO SERIES

The air-cooled chillers of the KWE Eco series in the power range from 161.3 to 315.2 kW can be individually configured for any application thanks to their modular design. In the hermetically sealed system of the chiller for outdoor installation, the innovative and climate-friendly refrigerant R452B is used. The selection of pumps in various pressure ratings allows the hydraulic components to be individually adapted to the respective application.

The pressure gauges already installed ex works in the hydraulic circuit and the accessibility of the essential hydraulic components via the opening of the swivelling control cabinet facilitate installation and commissioning, thus ensuring maximum service friendliness.

In addition, thanks to the selection of state-of-the-art components and the optimisation of all device parameters, the devices already comply with the energy requirements of the more stringent Eco-Design Directive from 01/01/2021.

- Hydraulic components individually configurable
- Easy access to the essential device components
- Future-proof thanks to climate-friendly refrigerant R452B
- Optional components to reduce noise emissions available
- Integration into an existing building control system possible
- Units are ErP-compliant according to the Eco-Design Directive

Technical data

| | |
|---|-------------------|
| Unit type | |
| Nominal cooling capacity ¹⁾ | kW |
| Energy efficiency rating EER ¹⁾ | |
| Energy efficiency size SEER | |
| Annual utilisation factor of room cooling, $\eta_{s,c}$ | % |
| Cooling return temperature adjusting range | °C |
| Operating range, cooling | °C |
| Number of cooling circuits | |
| Refrigerant | |
| GWP value | |
| Refrigerant filling quantity (per circuit) | kg |
| CO ₂ equivalent | d |
| Compressor, number/type | |
| Max. air volume flow rate | m ³ /h |
| Number of fans | |
| Sound pressure level ³⁾ | dB(A) |
| Sound power level | dB(A) |
| Voltage supply | V/Ph/Hz |
| Type of protection | |
| Electrical nominal power consumption, cooling | kW |
| Electrical nominal current consumption, cooling | A |
| Operating medium | |
| Max. medium operating pressure | kPa |
| Nominal volume flow rate of medium, cooling | m ³ /h |
| Internal pressure loss | kPa |
| Medium port, inlet | Inch |
| Medium port, outlet | Inch |
| Dimensions | |
| Weight | kg |
| Serial colour | |
| Chillers with standard pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-pressure pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with high-performance pump and pressure gauge | |
| System pressure available, cooling | kPa |
| Chillers with tank | |
| Medium content, tank | l |
| Chiller with low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |
| Chiller with super-low-noise kit | |
| Sound pressure level ³⁾ | dB(A) |

Available as of June 2020

¹⁾ Air inlet temperature TK 35 °C, medium inlet 12°C, medium outlet 7 °C, 0% glycol concentration



| KWE 1600 Eco | KWE 1850 Eco | KWE 2100 Eco | KWE 2350 Eco | KWE 2600 Eco | KWE 2850 Eco | KWE 3150 Eco |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| 161.3 | 186.2 | 211.4 | 233.7 | 260.2 | 286.8 | 315.2 |
| 3.1 | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 | 2.9 |
| 4.9 | 5.3 | 5.3 | 5.3 | 5.4 | 5.3 | 5.2 |
| 187 | 203 | 205 | 205 | 209 | 204 | 202 |
| +5 to +18 | | | | | | |
| +5 to +48 / -15 to +48 ⁵⁾ | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| R452B | R452B | R452B | R452B | R452B | R452B | R452B |
| 676 | 676 | 676 | 676 | 676 | 676 | 676 |
| 18.0 | 18.0 | 18.5 | 19.0 | 21.0 | 22.0 | 22.5 |
| 12.17 | 12.17 | 12.51 | 12.84 | 14.20 | 14.87 | 15.21 |
| 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll | 4 / scroll |
| 58500 | 58500 | 58500 | 58500 | 78000 | 83600 | 83600 |
| 3 | 3 | 3 | 3 | 4 | 4 | 4 |
| 60.0 | 60.2 | 60.5 | 60.8 | 61.5 | 61.5 | 61.5 |
| 92.0 | 92.2 | 92.5 | 92.8 | 93.7 | 93.7 | 93.7 |
| 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 | 400/3~N/50 |
| IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 | IP X4 |
| 51.9 | 56.2 | 62.7 | 70.3 | 79.7 | 91.7 | 103.8 |
| 93.8 | 101.4 | 113.2 | 127.0 | 143.9 | 165.7 | 187.4 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | |
| 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| 27.7 | 32.0 | 36.6 | 40.1 | 44.6 | 49.2 | 54.1 |
| 39.9 | 50.8 | 47.3 | 56.1 | 43.6 | 51.0 | 59.7 |
| DN 80 | DN 80 | DN 80 | DN 80 | DN 100 | DN 100 | DN 100 |
| DN 80 | DN 80 | DN 80 | DN 80 | DN 100 | DN 100 | DN 100 |
| Varies depending on the unit configuration. For details, see the technical documentation | | | | | | |
| 1650 | 1750 | 1805 | 1865 | 2154 | 2205 | 2265 |
| similar to RAL 9018 | | | | | | |
| 132.7 | 114.8 | 110.1 | 133.0 | 136.0 | 117.7 | 96.2 |
| 169.2 | 199.4 | 196.7 | 181.4 | 185.2 | 167.8 | 147.3 |
| 215.5 | 260.8 | 257.2 | 241.4 | 243.7 | 225.2 | 203.3 |
| 375 | 375 | 375 | 375 | 375 | 375 | 375 |
| 56.2 | 56.4 | 56.7 | 57.0 | 57.7 | 57.7 | 57.7 |
| 49.8 | 50.1 | 50.3 | 50.7 | 51.3 | 51.3 | 51.3 |

³⁾ Distance 10 m in open air

⁵⁾ With winter fan speed control accessories

REMKO KWE 1600-3150 ECO SERIES

Chiller for cooling

Chiller

| Unit type | KWE 1600 Eco | KWE 1850 Eco |
|---|--------------|--------------|
| In the standard version | 1705600 | 1705850 |
| Optional components for noise reduction | | |
| Low-noise kit | 1657432 | 1657433 |
| Super-low-noise kit | 1657443 | 1657444 |
| Optional hydraulic components | | |
| Standard pump and pressure gauge | 1657305 | 1657305 |
| High-pressure pump and pressure gauge | 1657314 | 1657315 |
| High-performance pump and pressure gauge | 1657324 | 1657325 |
| Tank, standard pump, MAG, pressure gauge and anti-frost protection heater | 1657335 | 1657335 |
| Tank, high-pressure pump, MAG, pressure gauge and anti-frost protection heater | 1657344 | 1657345 |
| Tank, high-performance pump, MAG, pressure gauge and anti-frost protection heater | 1657354 | 1657355 |
| Accessories | | |
| Glycol 20 l canister | 1611414 | 1611414 |
| Glycol 210 l drum | 1611415 | 1611415 |
| Cabled remote control | 1657228 | 1657228 |
| Condenser protection grid | 1657364 | 1657364 |
| Vibration damper (for units without a tank) | 1657455 | 1657455 |
| Vibration damper (for units with a tank) | 1657457 | 1657457 |
| Medium circuit pressure gauge (for units without hydraulic components) | 1657415 | 1657415 |
| Crankcase heater | Series | Series |
| Electronic expansion valve | Series | Series |
| Winter fan speed control | 1657422 | 1657422 |
| Soft start | 1657390 | 1657390 |
| Switch cabinet ventilation | 1657401 | 1657401 |
| Switch cabinet heater | 1657405 | 1657405 |
| Modbus interface RS485 | 1657410 | 1657410 |

Other accessories upon request



Glycol concentrate 20 l canister

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Glycol concentrate 210 l plastic drum

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values.



Condenser protection grid, installed

For chillers with protection against damage to the device fins or personal injury in case of installation in danger zones



Vibration damper set

For chillers, required quantity included in the set.



Medium circuit pressure gauge, installed

For displaying the system pressure in the medium circuit. Standard on machines with hydraulic components.



Compressor crankcase heater, installed

For heating the oil sump when the unit is not in operation and the outside temperature is low. Standard for all units.



Soft start, installed

For the limitation of the starting current in starting torque by up to 45%, depending on the unit size.

| KWE 2100 Eco | KWE 2350 Eco | KWE 2600 Eco | KWE 2850 Eco | KWE 3150 Eco |
|--------------|--------------|--------------|--------------|--------------|
| 1706100 | 1706350 | 1706600 | 1706850 | 1707150 |
| 1657433 | 1657433 | 1657433 | 1657433 | 1657433 |
| 1657444 | 1657444 | 1657445 | 1657445 | 1657445 |
| 1657305 | 1657306 | 1657306 | 1657306 | 1657306 |
| 1657315 | 1657316 | 1657316 | 1657316 | 1657316 |
| 1657325 | 1657326 | 1657326 | 1657326 | 1657326 |
| 1657335 | 1657335 | 1657336 | 1657336 | 1657336 |
| 1657345 | 1657345 | 1657346 | 1657346 | 1657346 |
| 1657355 | 1657355 | 1657356 | 1657356 | 1657356 |
| 1611414 | 1611414 | 1611414 | 1611414 | 1611414 |
| 1611415 | 1611415 | 1611415 | 1611415 | 1611415 |
| 1657228 | 1657228 | 1657228 | 1657228 | 1657228 |
| 1657364 | 1657364 | 1657365 | 1657365 | 1657365 |
| 1657455 | 1657455 | 1657455 | 1657455 | 1657455 |
| 1657457 | 1657457 | 1657457 | 1657457 | 1657457 |
| 1657415 | 1657415 | 1657415 | 1657415 | 1657415 |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| 1657423 | 1657423 | 1657424 | 1657424 | 1657424 |
| 1657390 | 1657390 | 1657390 | 1657391 | 1657391 |
| 1657401 | 1657401 | 1657401 | 1657401 | 1657401 |
| 1657405 | 1657405 | 1657405 | 1657405 | 1657405 |
| 1657410 | 1657410 | 1657410 | 1657410 | 1657410 |



Switch cabinet ventilation, installed

For dissipating trapped heat in the control cabinet at high ambient temperatures.



Winter pressure control set, installed

For the expansion of the operating limits of the chiller in cooling operation to -15°C. Consists of EC fans and additional measurement and control components.



Modbus interface RS485, installed

For the integration of the chiller to an existing building control system with Modbus data protocol, polling of error messages, sensor values, relay statuses, operating runtimes of pump and compressors, and the polling and setting of set values.



Switch cabinet heater, installed

For avoiding condensation in the switch cabinet due to temperature fluctuations at low ambient temperatures.

Other special accessories are available on request.

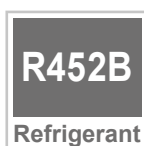
For example:

- Double pump for redundant operation
- Coated heat exchanger for operation in aggressive ambient air
- And much more

REMKO KWP 460-1120 ECO SERIES

Chillers for cooling and heating

NEW



REMKO KWP 460-1120 Eco series

In a modular design with heat pump function

The units of the KWE 460-1120 Eco series, with an output range of 46.4 to 112.1 kW cooling capacity and 53.9 to 135.7 kW heating capacity, are particularly compact and quiet air-cooled chillers for outdoor installation.

Thanks to an integrated process reversal, the units can be used for both heating and cooling and are therefore versatile.

The interaction from the optimisation of the heat exchanger surfaces, use of highly efficient components and the optimisation of all operation-related system parameters ensure that the units have a very high degree of efficiency and therefore correspond with the pertinent requirements of the Eco-Design Directive.

- Hydraulic components individually configurable
- Multi-stage power control
- Floating switch contacts for integration into a building control system
- Modbus data protocol in standard version
- Extensive accessories for individual unit configuration
- Units are ErP-compliant according to the Eco-Design Directive

Technical data

| | |
|---|-------------------|
| Unit type | |
| Cooling capacity ¹⁾ | kW |
| Heating capacity ²⁾ | kW |
| SEER | |
| Annual utilisation factor of room cooling, η _{s,c} | % |
| Return temperature operating range Cooling | °C |
| Return temperature operating range Heating | °C |
| Operating range, cooling | °C |
| Operating range, heating | °C |
| Number of cooling circuits | |
| Refrigerant | |
| GWP value | |
| Refrigerant filling quantity (per circuit) | kg |
| CO ₂ equivalent | d |
| Compressor, number/type | |
| Nominal air flow rate | m ³ /h |
| Number of fans | |
| Sound pressure level ³⁾ | dB(A) |
| Sound power level | dB(A) |
| Voltage supply | V / Ph / Hz |
| Type of protection | IP |
| Electrical power consumption, max. | A |
| Nominal power consumption, cooling | kW |
| Nominal current consumption, cooling | A |
| Operating medium | |
| Max. operating pressure of medium | kPa |
| Rated flow rate, cooling | m ³ /h |
| Minimum flow rate, medium | m ³ /h |
| Maximum volume flow rate, medium | m ³ /h |
| Internal pressure loss | kPa |
| Medium port, inlet | Inch |
| Medium port, outlet | Inch |
| Dimensions | mm |
| Serial colour | |
| Chillers with standard pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with high-pressure pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with high-performance pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with tank | |
| Medium content, tank | l |
| Chiller with low-noise kit | |
| Available system pressure | dB(A) |
| Chiller with super-low-noise kit | |
| Available system pressure | dB(A) |

¹⁾ Air inlet temperature TK 35°C, medium inlet 12°C, medium outlet 7°C, 0% glycol concentration



| KWP 460 Eco | KWP 520 Eco | KWP 570 Eco | KWP 660 Eco | KWP 790 Eco | KWP 900 Eco | KWP 1030 Eco | KWP 1120 Eco |
|--|-------------|-------------|-------------|--|-------------|--------------|--------------|
| 46.4 | 51.7 | 57.2 | 66.3 | 78.5 | 90.1 | 102.7 | 112.1 |
| 53.9 | 60.8 | 71.3 | 79.6 | 95.2 | 107.6 | 120.2 | 135.7 |
| 5.8 | 5.7 | 5.3 | 4.9 | 5.9 | 6.0 | 5.8 | 5.9 |
| 225 | 221 | 203 | 187 | 227 | 230 | 225 | 227 |
| | | | | +5 to +18 | | | |
| | | | | +25 to +50 | | | |
| | | | | -10 to +30 | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| | | | | R452B | | | |
| | | | | 676 | | | |
| 16.0 | 17.0 | 18.0 | 18.0 | 18.0 | 20.0 | 12.5 | 12.5 |
| 10.8 | 11.5 | 12.2 | 12.2 | 12.2 | 13.5 | 8.5 | 8.5 |
| 2 | 2 | 2 | 2 | 3 | 3 | 4 | 4 |
| 22000 | 22000 | 22000 | 22000 | 44000 | 44000 | 44000 | 44000 |
| 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| 53.3 | 53.6 | 53.9 | 54.7 | 57.4 | 57.7 | 58.0 | 58.4 |
| 85.3 | 85.6 | 85.9 | 86.7 | 89.4 | 89.7 | 90.0 | 90.4 |
| | | | | 400/3 ² N/50 | | | |
| | | | | X4 | | | |
| 53.2 | 53.3 | 51.3 | 61.3 | 84.3 | 81.1 | 110.3 | 106.3 |
| 11.7 | 13.6 | 16.4 | 20.1 | 21.3 | 24.4 | 28.3 | 32.8 |
| 21.1 | 24.5 | 29.7 | 36.3 | 38.5 | 44.0 | 51.0 | 59.3 |
| | | | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | |
| | | | | 800 | | | |
| 8.0 | 8.9 | 9.9 | 11.4 | 14.3 | 15.7 | 19.0 | 21.9 |
| 4.8 | 5.3 | 5.9 | 6.8 | 11.6 | 12.8 | 15.4 | 17.8 |
| 12.8 | 14.2 | 15.8 | 18.2 | 17.4 | 19.2 | 23.2 | 26.7 |
| 58.7 | 57.1 | 50.6 | 51.5 | 18.7 | 22.8 | 22.9 | 31.3 |
| 1 1/2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 1/2 |
| 1 1/2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 1/2 |
| Varies depending on the unit configuration. For details, see the technical documentation similar to RAL 9018 | | | | | | | |
| 94.4 | 86.3 | 118.3 | 104.2 | 76.1 | 106.1 | 115.4 | 102.8 |
| 163.4 | 149.0 | 222.6 | 209.3 | 181.7 | 186.2 | 195.7 | 183.1 |
| 252.3 | 239.9 | 283.1 | 266.5 | 235.1 | 208.0 | 221.7 | 212.4 |
| 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| 49.5 | 49.8 | 50.1 | 50.9 | 53.6 | 53.9 | 54.2 | 54.6 |
| 46.9 | 47.2 | 47.5 | 48.3 | 51.0 | 51.4 | 51.7 | 52.0 |

²⁾ Air inlet temperature TK 7°C, medium inlet 40 °C, medium outlet 45 °C, 0% glycol concentration

³⁾ Distance of 10m in open air

REMKO KWP 460-1120 ECO SERIES

Chillers for cooling and heating

Chiller

| Unit type | KWP 460 Eco | KWP 520 Eco | KWP 570 Eco |
|---|-------------|-------------|-------------|
| In the standard version | 1707460 | 1707520 | 1707570 |
| Optional components for noise reduction | | | |
| Low-noise kit | 1657430 | 1657430 | 1657430 |
| Super-low-noise kit | 1657560 | 1657560 | 1657560 |
| Optional hydraulic components | | | |
| Standard pump and pressure gauge | 1657500 | 1657500 | 1657501 |
| High-pressure pump and pressure gauge | 1657510 | 1657510 | 1657511 |
| High-performance pump and pressure gauge | 1657520 | 1657520 | 1657521 |
| Tank, standard pump, MAG, pressure gauge and anti-frost protection heater | 1657530 | 1657530 | 1657531 |
| Tank, high-pressure pump, MAG, pressure gauge and anti-frost protection heater | 1657540 | 1657540 | 1657541 |
| Tank, high-performance pump, MAG, pressure gauge and anti-frost protection heater | 1657550 | 1657550 | 1657551 |
| Other accessories | | | |
| Glycol, 20 litre canister | 1611414 | 1611414 | 1611414 |
| Glycol, 210 litre drum | 1611415 | 1611415 | 1611415 |
| Cabled remote control | 1657228 | 1657228 | 1657228 |
| Condenser protection grid | 1657361 | 1657361 | 1657361 |
| Vibration damper (for units without a tank) | 1657450 | 1657450 | 1657450 |
| Vibration damper (for units with a tank) | 1657451 | 1657452 | 1657452 |
| Medium circuit pressure gauge (for units without hydraulic components) | 1657415 | 1657415 | 1657415 |
| Crankcase heater | Series | Series | Series |
| Electronic expansion valve | Series | Series | Series |
| Winter fan speed control | Series | Series | Series |
| Soft start | 1657570 | 1657571 | 1657571 |
| Switch cabinet ventilation | 1657401 | 1657401 | 1657401 |
| Switch cabinet heater | Series | Series | Series |
| Modbus interface RS485 | 1657410 | 1657410 | 1657410 |



Glycol concentrate 20 l canister

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Glycol concentrate 210 l plastic drum

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values.



Condenser protection grid, installed

For chillers with protection against damage to the device fins or personal injury in case of installation in danger zones



Vibration damper set

For chillers, required quantity included in the set.



Medium circuit pressure gauge, installed

For displaying the system pressure in the medium circuit. Standard on machines with hydraulic components.



Compressor crankcase heater, installed

For heating the oil sump when the unit is not in operation and the outside temperature is low. Standard for all units.



Soft start, installed

For the limitation of the starting current in starting torque by up to 45%, depending on the unit size.

| KWP 660 Eco | KWP 790 Eco | KWP 900 Eco | KWP 1030 Eco | KWP 1120 Eco |
|-------------|-------------|-------------|--------------|--------------|
| 1707660 | 1707790 | 1707900 | 1708030 | 1708120 |
| 1657431 | 1657431 | 1657431 | 1657432 | 1657432 |
| 1657561 | 1657562 | 1657562 | 1657563 | 1657563 |
| 1657501 | 1657501 | 1657501 | 1657502 | 1657502 |
| 1657511 | 1657511 | 1657511 | 1657512 | 1657512 |
| 1657521 | 1657521 | 1657521 | 1657522 | 1657522 |
| 1657531 | 1657531 | 1657531 | 1657532 | 1657532 |
| 1657541 | 1657541 | 1657541 | 1657542 | 1657542 |
| 1657551 | 1657551 | 1657551 | 1657552 | 1657552 |
| 1611414 | 1611414 | 1611414 | 1611414 | 1611414 |
| 1611415 | 1611415 | 1611415 | 1611415 | 1611415 |
| 1657228 | 1657228 | 1657228 | 1657228 | 1657228 |
| 1657361 | 1657363 | 1657363 | 1657363 | 1657363 |
| 1657450 | 1657452 | 1657452 | 1657452 | 1657452 |
| 1657452 | 1657454 | 1657454 | 1657454 | 1657454 |
| 1657415 | 1657415 | 1657415 | 1657415 | 1657415 |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| 1657571 | 1657572 | 1657572 | 1657573 | 1657574 |
| 1657401 | 1657401 | 1657401 | 1657401 | 1657401 |
| Series | Series | Series | Series | Series |
| 1657410 | 1657410 | 1657410 | 1657410 | 1657410 |



Switch cabinet ventilation, installed

For dissipating trapped heat in the control cabinet at high ambient temperatures.



Winter pressure control set, installed

For the expansion of the operating limits of the chiller in cooling operation to -15°C. Consists of EC fans and additional measurement and control components.



Modbus interface RS485, installed

For the integration of the chiller to an existing building control system with Modbus data protocol, polling of error messages, sensor values, relay statuses, operating runtimes of pump and compressors, and the polling and setting of set values.



Switch cabinet heater, installed

For avoiding condensation in the switch cabinet due to temperature fluctuations at low ambient temperatures.



Electronic expansion valve, installed

For increasing the control quality, optimisation of the overheating control and increase in energy efficiency.

Other special accessories are available on request.

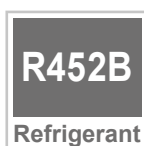
For example:

- Double pump for redundant operation
- Coated head exchanger for operation in aggressive ambient air
- And much more

REMKO KWP 1220-2460 ECO SERIES

Chillers for cooling and heating

NEW



REMKO KWP 1220-2460 ECO SERIES

In a modular design with heat pump function

The units of the KWE 1220-2460 Eco series, with an output range of 122.1 to 246.1 kW cooling capacity and 144.1 to 290.4 kW heating capacity, are particularly compact and quiet air-cooled chillers for outdoor installation.

Thanks to an integrated process reversal, the units can be used for both heating and cooling and are therefore versatile.

The interaction from the optimisation of the heat exchanger surfaces, use of highly efficient components and the optimisation of all operation-related system parameters ensure that the units have a very high degree of efficiency and therefore correspond with the pertinent requirements of the Eco-Design Directive.

- Hydraulic components individually configurable
- Multi-stage power control
- Floating switch contacts for integration into a building control system
- Modbus data protocol in standard version
- Extensive accessories for individual unit configuration
- Units are ErP-compliant according to the Eco-Design Directive

Technical data

| | |
|---|-------------|
| Unit type | |
| Cooling capacity ¹⁾ | kW |
| Heating capacity ²⁾ | kW |
| SEER | |
| Annual utilisation factor of room cooling, $\eta_{s,c}$ | % |
| Return temperature operating range Cooling | °C |
| Return temperature operating range Heating | °C |
| Operating range, cooling | °C |
| Operating range, heating | °C |
| Number of cooling circuits | |
| Refrigerant | |
| GWP value | |
| Refrigerant filling quantity (per circuit) | kg |
| CO2 equivalent | d |
| Compressor, number/type | |
| Nominal air flow rate | m³/h |
| Number of fans | |
| Sound pressure level 3) | dB(A) |
| Sound power level | dB(A) |
| Voltage supply | V / Ph / Hz |
| Type of protection | IP |
| Electrical power consumption, max. | A |
| Nominal power consumption, cooling | kW |
| Nominal current consumption, cooling | A |
| Operating medium | |
| Max. operating pressure of medium | kPa |
| Rated flow rate, cooling | m³/h |
| Minimum flow rate, medium | m³/h |
| Maximum volume flow rate, medium | m³/h |
| Internal pressure loss | kPa |
| Medium port, inlet | |
| Medium port, outlet | |
| Dimensions | mm |
| Serial colour | |
| Chillers with standard pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with high-pressure pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with high-performance pump and pressure gauge | |
| Available system pressure | kPa |
| Chillers with tank | |
| Medium content, tank | l |
| Chiller with low-noise kit | |
| Available system pressure | dB(A) |
| Chiller with super-low-noise kit | |
| Available system pressure | dB(A) |

¹⁾ Air inlet temperature TK 35°C, medium inlet 12°C, medium outlet 7°C, 0% glycol concentration



| KWP 1220 Eco | KWP 1310 Eco | KWP 1400 Eco | KWP 1480 Eco | KWP 1700 Eco | KWP 1960 Eco | KWP 2220 Eco | KWP 2460 Eco |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 122.1 | 130.5 | 139.7 | 148.3 | 169.9 | 196.2 | 222.7 | 246.1 |
| 144.1 | 155.9 | 165.6 | 175.5 | 193.3 | 226.9 | 257.1 | 290.4 |
| 5.7 | 5.5 | 5.7 | 5.8 | 5.5 | 6.0 | 6.0 | 6.0 |
| 218 | 214 | 220 | 225 | 214 | 231 | 232 | 230 |
| +5 to +18 | | | | | | | |
| +25 to +50 | | | | | | | |
| -10 to +30 | | | | | | | |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| R452B | | | | | | | |
| 676 | | | | | | | |
| 13.0 | 13.5 | 13.5 | 14.0 | 18.0 | 18.0 | 18.5 | 19.0 |
| 8.8 | 9.1 | 9.1 | 9.5 | 12.2 | 12.2 | 12.5 | 12.8 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 44000 | 44000 | 44000 | 44000 | 66000 | 66000 | 66000 | 66000 |
| 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 59.4 | 59.6 | 59.7 | 59.8 | 62.2 | 62.6 | 62.9 | 63.3 |
| 91.4 | 91.6 | 91.7 | 91.8 | 94.2 | 94.6 | 94.9 | 95.3 |
| 400/3° N/50 | | | | | | | |
| X4 | | | | | | | |
| 116.3 | 126.3 | 136.3 | 146.3 | 163.9 | 188.7 | 213.5 | 235.5 |
| 37.2 | 41.5 | 42.5 | 43.4 | 51.0 | 55.3 | 63.0 | 70.8 |
| 67.1 | 75.0 | 76.7 | 78.5 | 92.1 | 99.8 | 113.7 | 127.9 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | |
| 800 | | | | | | | |
| 21.0 | 22.5 | 24.1 | 25.5 | 29.3 | 33.8 | 38.4 | 42.4 |
| 12.6 | 13.5 | 14.5 | 15.3 | 17.6 | 20.3 | 23.0 | 25.4 |
| 33.6 | 36.0 | 38.6 | 40.8 | 46.9 | 54.1 | 61.4 | 67.8 |
| 51.6 | 58.0 | 54.8 | 47.1 | 41.7 | 53.1 | 49.4 | 58.7 |
| DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 |
| DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 | DN 80 |
| Varies depending on the unit configuration. For details, see the technical documentation similar to RAL 9018 | | | | | | | |
| 96.6 | 86.1 | 84.6 | 87.7 | 128.6 | 109.4 | 103.8 | 126.1 |
| 177.0 | 166.4 | 164.9 | 167.8 | 165.5 | 194.7 | 191.4 | 174.9 |
| 209.8 | 202.3 | 204.3 | 210.5 | 212.0 | 255.8 | 251.5 | 234.0 |
| 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 |
| 55.6 | 55.8 | 55.9 | 56.0 | 58.4 | 58.8 | 59.1 | 59.5 |
| 53.0 | 53.2 | 53.4 | 53.5 | 55.9 | 56.2 | 56.5 | 57.0 |

²⁾ Air inlet temperature TK 7°C, medium inlet 40 °C, medium outlet 45 °C, 0% glycol concentration

³⁾ Distance of 10m in open air

REMKO KWP 1220-2460 ECO SERIES

Chillers for cooling and heating

Chiller

| Unit type | KWP 1220 Eco | KWP 1310 Eco | KWP 1400 Eco |
|---|--------------|--------------|--------------|
| In the standard version | 1708220 | 1708310 | 1708400 |
| Optional components for noise reduction | | | |
| Low-noise kit | 1657432 | 1657434 | 1657434 |
| Super-low-noise kit | 1657563 | 1657564 | 1657564 |
| Optional hydraulic components | | | |
| Standard pump and pressure gauge | 1657503 | 1657503 | 1657503 |
| High-pressure pump and pressure gauge | 1657513 | 1657513 | 1657513 |
| High-performance pump and pressure gauge | 1657523 | 1657523 | 1657523 |
| Tank, standard pump, MAG, pressure gauge and anti-frost protection heater | 1657533 | 1657533 | 1657533 |
| Tank, high-pressure pump, MAG, pressure gauge and anti-frost protection heater | 1657543 | 1657543 | 1657543 |
| Tank, high-performance pump, MAG, pressure gauge and anti-frost protection heater | 1657553 | 1657553 | 1657553 |
| Other accessories | | | |
| Glycol, 20 litre canister | 1611414 | 1611414 | 1611414 |
| Glycol, 210 litre drum | 1611415 | 1611415 | 1611415 |
| Cabled remote control | 1657228 | 1657228 | 1657228 |
| Condenser protection grid | 1657366 | 1657366 | 1657366 |
| Vibration damper (for units without a tank) | 1657452 | 1657452 | 1657452 |
| Vibration damper (for units with a tank) | 1657453 | 1657453 | 1657453 |
| Medium circuit pressure gauge (for units without hydraulic components) | 1657415 | 1657415 | 1657415 |
| Crankcase heater | Series | Series | Series |
| Electronic expansion valve | Series | Series | Series |
| Winter fan speed control | Series | Series | Series |
| Soft start | 1657574 | 1657574 | 1657575 |
| Switch cabinet ventilation | 1657401 | 1657401 | 1657401 |
| Switch cabinet heater | Series | Series | Series |
| Modbus interface RS485 | 1657410 | 1657410 | 1657410 |



Glycol concentrate 20 l canister

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Glycol concentrate 210 l plastic drum

Ethylene glycol concentrate in disposable barrel to ensure frost protection in the medium circuit. Recommendation: 34% glycol, 66% water



Cabled remote control

For the operation of the chiller, polling of operating states and sensor values, diagnosis of error messages and the polling and setting of set values.



Condenser protection grid, installed

For chillers with protection against damage to the device fins or personal injury in case of installation in danger zones



Vibration damper set

For chillers, required quantity included in the set.



Medium circuit pressure gauge, installed

For displaying the system pressure in the medium circuit. Standard on machines with hydraulic components.



Compressor crankcase heater, installed

For heating the oil sump when the unit is not in operation and the outside temperature is low. Standard for all units.



Soft start, installed

For the limitation of the starting current in starting torque by up to 45%, depending on the unit size.

| KWP 1480 Eco | KWP 1700 Eco | KWP 1960 Eco | KWP 2220 Eco | KWP 2460 Eco |
|--------------|--------------|--------------|--------------|--------------|
| 1708480 | 1708700 | 1708960 | 1709220 | 1709460 |
| 1657434 | 1657434 | 1657433 | 1657433 | 1657433 |
| 1657564 | 1657565 | 1657566 | 1657566 | 1657566 |
| 1657503 | 1657504 | 1657504 | 1657504 | 1657505 |
| 1657513 | 1657514 | 1657514 | 1657514 | 1657515 |
| 1657523 | 1657524 | 1657524 | 1657524 | 1657525 |
| 1657533 | 1657534 | 1657534 | 1657534 | 1657535 |
| 1657543 | 1657544 | 1657544 | 1657544 | 1657545 |
| 1657553 | 1657554 | 1657554 | 1657554 | 1657555 |
| 1611414 | 1611414 | 1611414 | 1611414 | 1611414 |
| 1611415 | 1611415 | 1611415 | 1611415 | 1611415 |
| 1657228 | 1657228 | 1657228 | 1657228 | 1657228 |
| 1657366 | 1657364 | 1657364 | 1657364 | 1657364 |
| 1657454 | 1657455 | 1657455 | 1657455 | 1657455 |
| 1657456 | 1657457 | 1657457 | 1657457 | 1657457 |
| 1657415 | 1657415 | 1657415 | 1657415 | 1657415 |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| Series | Series | Series | Series | Series |
| 1657575 | 1657575 | 1657576 | 1657576 | 1657577 |
| 1657401 | 1657401 | 1657401 | 1657401 | 1657401 |
| Series | Series | Series | Series | Series |
| 1657410 | 1657410 | 1657410 | 1657410 | 1657410 |



Switch cabinet ventilation, installed

For dissipating trapped heat in the control cabinet at high ambient temperatures.



Winter pressure control set, installed

For the expansion of the operating limits of the chiller in cooling operation to -15°C. Consists of EC fans and additional measurement and control components.



Modbus interface RS485, installed

For the integration of the chiller to an existing building control system with Modbus data protocol, polling of error messages, sensor values, relay statuses, operating runtimes of pump and compressors, and the polling and setting of set values.



Switch cabinet heater, installed

For avoiding condensation in the switch cabinet due to temperature fluctuations at low ambient temperatures.



Electronic expansion valve, installed

For increasing the control quality, optimisation of the overheating control and increase in energy efficiency.

Other special accessories are available on request.

For example:

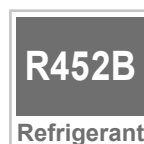
- Double pump for redundant operation
- Coated head exchanger for operation in aggressive ambient air
- And much more

REMKO KWE ECO FC SERIES

Chiller for cooling

NEW

Technical data and
prices on request



REMKO KWE ECO FC SERIES

In a modular design with integrated freecooling function

In addition to the conventional refrigeration circuit, the units of the KWE Eco FC series have another heat exchanger already integrated into the device for freecooling. This makes it possible to cool down the operating medium water (or water-glycol mixture) already by means of cool ambient air, whereby the operating costs can be considerably reduced.

The air-cooled devices for outdoor installation are therefore particularly suitable for applications with a year-round cooling requirement and long operating times. In the power range from 50 kW cooling capacity, various models are available here and can be individually adapted to the needs and requirements of the building project.

The planning and design of these units is carried out in cooperation with REMKO so that, in the end, a tailor-made unit can be created for every application.

- The freecooling function is already integrated as standard
- No setup of additional freecoolers required
- Control logic of the freecooling function already integrated
- Individual planning and design with support from REMKO for customised project planning
- Various connection options to the central BMS



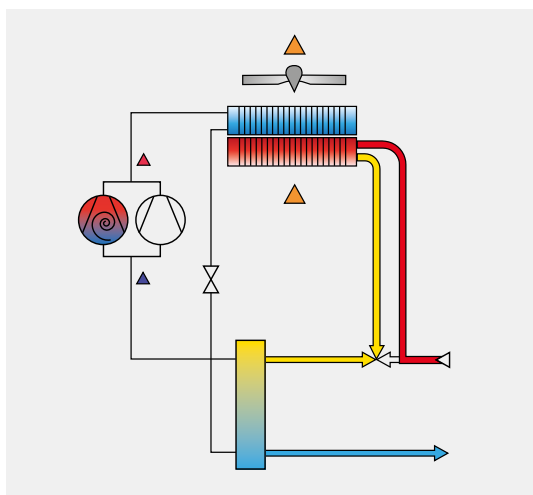
Freecooling

If cooling is required the whole year through, the units of the Freecooling version (FC) allow the use of the free cooling energy of the ambient air at low ambient temperatures. This saves operating costs and makes an environmentally sound contribution to the protection of the climate.



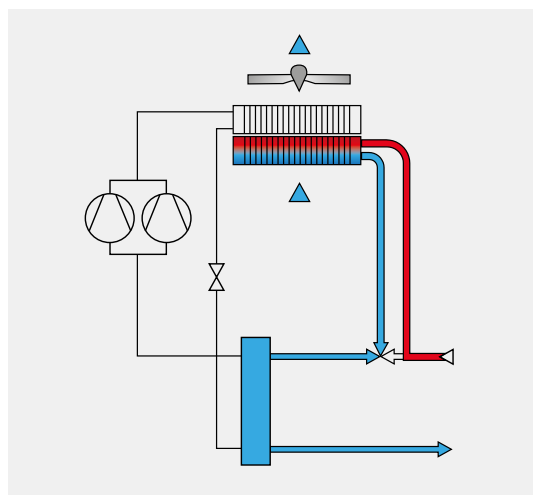
Function at average temperatures

In the freecooling heat exchanger, the medium is already pre-cooled by the cool outside air which means that the cooling circuit already operates with reduced cooling power requirements. This already ensures significant energy savings on cooler days.



Function at low temperatures

The cooling of the medium by the outside air is now sufficient to cover the entire cooling capacity required. The refrigeration circuit of the device is no longer activated – only pumps and fans are now still in operation. In this way, energy savings of 90% and higher can be achieved.



BIOCLEAN SYSTEM

Natural disinfection of your indoor air

NEW

Clean indoor air is not a matter of course

The topic of "air quality" is more relevant than ever, especially due to the still ongoing COVID pandemic. Air conditioners and simple recirculation devices should be cleaned and serviced at certain time intervals. In addition to cleaning the air filter, disinfection in particular is imperative in order to be able to guarantee healthy air quality.

REMKO BioClean disinfects room air in:

- Residential spaces
- Office buildings
- Shopping centres
- Clinics
- Hotels
- Schools
- Retirement homes
- Surgeries



BioClean system

Disinfects the room air by means of bipolar ionisation.

Disinfecting air with the REMKO BioClean system

Through the patented functional principle of "bipolar ionisation", ionisation waves are emitted in a quartz capacitor. Ionisation energetically charges the oxygen in the air. This "active oxygen" reacts with the air and binds the finest particles such as dust, smoke, impurities, allergens and even bacteria and germs. In this way, they are neutralised and removed from the room air.

The REMKO BioClean system can be ordered as an option for various indoor chilled-water units.

Play it safe – with the BioClean system from REMKO.

Overview of indoor chilled-water units with the BioClean system



KWD SERIES

Ceiling cassette in 2-pipe design with 5-speed fan

| | | |
|------------------|----|------------|
| Cooling capacity | kW | 2.7 - 9.4 |
| Heating capacity | kW | 3.5 - 11.0 |



KWD EC SERIES

Ceiling-mounted cassettes in the compact European grid format with EC fans and multi-functional control technology

| | | |
|------------------|----|------------|
| Cooling capacity | kW | 2.6 - 9.7 |
| Heating capacity | kW | 3.7 - 12.3 |



KWD EC COANDA SERIES

Ceiling cassette in 2-pipe design with 360-degree air outlet

| | | |
|------------------|----|------------|
| Cooling capacity | kW | 2.6 - 9.7 |
| Heating capacity | kW | 3.7 - 12.3 |



KWK (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design

| | | |
|------------------|----|-----------|
| Cooling capacity | kW | 1.2 - 7.2 |
| Heating capacity | kW | 1.5 - 7.7 |

KWK ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design for installation into false ceilings

| | | |
|------------------|----|-----------|
| Cooling capacity | kW | 1.2 - 7.2 |
| Heating capacity | kW | 1.5 - 7.7 |

KWK EC (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan

| | | |
|------------------|----|-----------|
| Cooling capacity | kW | 1.3 - 8.8 |
| Heating capacity | kW | 1.6 - 9.2 |

KWK EC ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan for installation into false ceilings

| | | |
|------------------|----|-----------|
| Cooling capacity | kW | 1.3 - 8.8 |
| Heating capacity | kW | 1.6 - 9.2 |

REMKO WLT (S) SERIES

Wall-mounted units in 2-pipe system



REMKO WLT (S) SERIES

High performance units for rooms with limited space

The unit suctions room air in through its front section, filters, cools, and dehumidifies the air and then returns it to the room through its lower front section. The air outlet fins can be set to swing operation for better automatic air distribution (WLT) or can be individually set in a fixed position (WLT, WLT S).

A low-noise transverse current fan draws in the room air through an easily accessible filter. The copper-aluminium heat exchanger for medium temperatures up to 70°C located behind the fan provides for optimum cooling or heating performance.

Any condensate occurring is collected in the condensate pan and conducted out of the device via a condensate tube. If the condensate cannot drain freely, a condensate pump can be integrated into the device according to the size and routing of the lines.

- Simple installation above doors or at the top of walls
- Removable and easy to clean air filter
- Air outlet in swing mode or with individual fine adjustment
- Integrated 3-way or 2-way valve subassembly
- Infrared remote control in the standard version (not for WLT S)
- Automatic restart after a power failure (not for WLT-S)
- Programmable 24-hour timer function (not for WLT S)



Design with 3-way valve
WLT 25-3 to 85-3



Design with 2-way valve
WLT 25-2 to 85-2



Cabled remote control KF 10.1
For surface mounting, alternative to an IR remote control



Precision room temperature controller RR-21

Parametrisable regulation for surface mounting with various additional functions.

Technical data

| Unit type | | WLT 25 (S) | WLT 27 (S) | WLT 45 (S) | WLT 55 (S) | WLT 75 (S) | WLT 85 (S) |
|--|---------|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Cooling capacity ^{1) 2)} | kW | 2.0 | 2.7 | 4.4 | 5.8 | 7.0 | 8.5 |
| Heating capacity ^{1) 3) / 6)} | kW | 4.1/0.8 | 5.4/1.6 | 8.6/2.7 | 12.0/3.5 | 13.9/4.8 | 17.1/5.9 |
| Air flow rate per speed setting | m³/h | 295/330/360 | 320/365/415 | 605/680/735 | 705/795/865 | 880/1100/1270 | 1090/1220/1400 |
| Sound pressure level per speed setting ⁵⁾ | dB(A) | 26/30/33 | 28/31/36 | 33/36/38 | 35/37/40 | 38/40/42 | 39/42/43 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Electr. rated power consumption | kW | 0.03 | 0.03 | 0.06 | 0.06 | 0.08 | 0.09 |
| Electr. rated current consumption | A | 0.12 | 0.14 | 0.24 | 0.27 | 0.32 | 0.41 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | |
| Max. operating pressure | kPa | 600 | 600 | 600 | 600 | 600 | 600 |
| Medium connectors | mm | 12 | 12 | 15 | 15 | 18 | 18 |
| Rated flow rate, medium | m³/h | 0.35 | 0.46 | 0.80 | 1.00 | 1.22 | 1.49 |
| Rated internal pressure drop K ²⁾ | kPa | 9.5 | 20.5 | 21.0 | 22.5 | 21.7 | 33.5 |
| Rate internal pressure loss H ³⁾ | kPa | 7.0 | 18.5 | 19.0 | 21.0 | 17.8 | 27.1 |
| Medium volume | L | 0.81 | 0.96 | 1.07 | 1.96 | 2.41 | 2.93 |
| Condensate drainage connection | mm | 16.5 | 16.5 | 24.0 | 24.0 | 24.0 | 24.0 |
| Dimensions - height | mm | 298 | 305 | 360 | 360 | 365 | 365 |
| Dimensions - width | mm | 880 | 990 | 1172 | 1172 | 1450 | 1450 |
| Dimensions - depth | mm | 180 | 180 | 206 | 206 | 215 | 215 |
| Weight | kg | 8.6 | 10.4 | 16.0 | 17.6 | 24.1 | 25.1 |
| Serial colour | | white | white | white | white | white | white |
| IR remote control and 3-way valve | | WLT 25-3 | WLT 27-3 | WLT 45-3 | WLT 55-3 | WLT 75-3 | WLT 85-3 |
| Ref. no. | | 1611725 | 1611727 | 1611745 | 1611755 | 1611775 | 1611785 |
| IR remote control and 2-way valve | | WLT 25-2 | WLT 27-2 | WLT 45-2 | WLT 55-2 | WLT 75-2 | WLT 85-2 |
| Ref. no. | | 1612725 | 1612727 | 1612745 | 1612755 | 1612775 | 1612785 |
| External control and 3-way valve | | WLT 25-3 S | WLT 27-3 S | WLT 45-3 S | WLT 55-3 S | WLT 75-3 S | WLT 85-3 S |
| Ref. no. | | 1611726 | 1611728 | 1611746 | 1611756 | 1611776 | 1611786 |
| External control and 2-way valve | | WLT 25-2 S | WLT 27-2 S | WLT 45-2 S | WLT 55-2 S | WLT 75-2 S | WLT 85-2 S |
| Ref. no. | | 1612726 | 1612728 | 1612746 | 1612756 | 1612776 | 1612786 |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27 C, FK 19 C; medium inlet 7 C, medium outlet 12 C

³⁾ Room temperature TK 20 C, FK 14 C; medium inlet 70 C, medium outlet 60 C

⁶⁾ Only in WLT S series: room temperature TK 20°C, FK 14°C; medium inlet 35°C, medium outlet 30°C

⁴⁾ Accessories

⁵⁾ Distance 1 m in open air

Accessories

| Unit type | WLT 25 (S) | WLT 27 (S) | WLT 45 (S) | WLT 55 (S) | WLT 75 (S) | WLT 85 (S) |
|--|------------|------------|------------|------------|------------|------------|
| Cabled remote control KF 10.1 | | | | | | |
| Only for WLT 25-85 | 1611703 | 1611703 | 1611703 | 1611703 | 1611703 | 1611703 |
| Precision room temperature controller RR-21 | | | | | | |
| Only for WLT 25-85 S | 1611396 | 1611396 | 1611396 | 1611396 | 1611396 | 1611396 |
| Room temperature controller RR-22 | | | | | | |
| Only for WLT 25-85 S | 1611397 | 1611397 | 1611397 | 1611397 | 1611397 | 1611397 |
| Room temperature sensor | | | | | | |
| For controllers RR-21 and RR-22 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor | | | | | | |
| For controllers RR-21 and RR-22 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| Switching relay SR-1 | | | | | | |
| | 1661105 | 1661105 | 1661105 | 1661105 | 1661105 | 1661105 |
| Fault message module SB-1 | | | | | | |
| | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |

Accessories

| Unit type | WLT 25 (S) | WLT 27 (S) | WLT 45 (S) | WLT 55 (S) | WLT 75 (S) | WLT 85 (S) |
|-----------------------------|------------|------------|------------|------------|------------|------------|
| KP-8 condensate pump | | | | | | |
| | 1613125 | 1613125 | 1613125 | 1613125 | 1613125 | 1613125 |



Room temperature controller R-22

For the surface mounting and control of the essential unit functions.



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Fault message module SB-1

With potential-free contact for the display of fault messages in cooling operation.

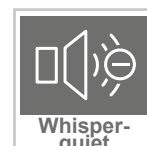


KP-8 condensate pump

For draining the condensate that occurs.

REMKO WLT EC SERIES

Wall units in 2-pipe design with multifunctional control technology



REMKO WLT EC SERIES

Large power range, precise control and extra quiet operation

The WLT EC series is equipped with modern, energy-efficient EC fans that guarantee a high degree of efficiency – especially in the partial load range. At the same time, the infinitely variable adaptation of the speed-controlled fans prevents strong temperature fluctuations, thereby guaranteeing optimum climatic comfort.

With the integrated Silent function, the development of noise can be considerably reduced if required. The units are therefore particularly suitable for rooms in which air conditioning should be practically unnoticeable, for example, in living spaces or offices.

No additional installation effort arises from the valve subassembly already installed in the unit. Depending on the installed pump type of the cold-water pipe mains, it is possible to choose between the 3-way and 2-way valves in the standard version.

In total, 6 sizes cover the entire power range up to 9.3 kW so that the right unit is available for every application.

- Particularly low-noise unit operation
- Simple installation above doors or at the top of walls
- Removable and easy to clean air filter
- Air outlet with adjustable swing function
- Integrated 3-way or 2-way valve
- Large power range

Control system

The standard version has an infrared remote control for switching between cooling, heating, ventilation or dehumidifying modes. With this component, the desired room temperature, switch-on or switch-off time, operation of swing fins and 5 fan speeds can be set. With an optional cabled remote control, each individual unit can also be operated individually within a group control system.

Thanks to the Modbus interface integrated into the standard version, the units can be incorporated into an existing building control system. An external enabling contact and potential-free collective fault message notification function offer the possibility of actuating the units externally and/or polling a pending fault.

- Infrared remote control in the standard version
- Programmable 24-hour timer function
- Potential-free fault and enabling contacts
- Modbus interface RS485 in the standard version
- 5 adjustable fan speeds
- Infinitely adjustable power adaptation in automatic operation

Technical data

| Unit type | | WLT 30 EC | WLT 40 EC | WLT 50 EC | WLT 60 EC | WLT 80 EC | WLT 90 EC |
|--|---------|--|-------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| Cooling capacity ^{1) 2)} | kW | 2.8 (0.8 - 2.8) | 3.7 (0.8 - 3.7) | 4.9 (0.8 - 4.9) | 6.1 (0.9 - 6.1) | 7.4 (1.9 - 7.4) | 9.3 (2.0 - 9.3) |
| Heating capacity ^{1) 3)} | kW | 4.2 (1.2 - 4.2) | 4.9 (1.2 - 4.9) | 6.4 (1.2 - 6.4) | 7.8 (1.3 - 7.8) | 9.4 (2.3 - 9.4) | 11.3 (2.4 - 11.3) |
| Air flow rate per speed setting | m³/h | 150/360/450/ 510/560 | 150/405/480/ 590/625 | 150/570/740/ 910/950 | 150/705/895/ 1050/1120 | 320/1090/1300/ 1490/1650 | 320/1300/1460/ 1640/1790 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 18/33/39/43/45 | 19/34/38/42/45 | 18/32/40/46/47 | 18/35/41/46/47 | 19/40/44/47/50 | 20/44/46/49/51 |
| Voltage supply | V/Ph/Hz | 230/1~ /50 | 230/1~ /50 | 230/1~ /50 | 230/1~ /50 | 230/1~ /50 | 230/1~ /50 |
| Electr. rated power consumption | W | 27 | 31 | 46 | 60 | 105 | 115 |
| Electr. rated current consumption | A | 0.27 | 0.29 | 0.36 | 0.49 | 0.81 | 0.94 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | |
| Max. operating pressure | kPa | 1600 | | | | | |
| Medium connectors | mm | 12 | 12 | 12 | 12 | 15 | 15 |
| Rated flow rate, medium ¹⁾ | m³/h | 0.48 | 0.64 | 0.83 | 1.05 | 1.28 | 1.60 |
| Rated pressure drop, internal | kPa | 23.1 | 31.3 | 31.0 | 38.4 | 27.4 | 30.0 |
| Medium volume | L | 2 | 2 | 2 | 2 | 3 | 3 |
| Condensate drainage connection | mm | 16 | 16 | 16 | 16 | 16 | 16 |
| Dimensions - height | mm | 315 | 315 | 315 | 315 | 378 | 378 |
| Dimensions - width | mm | 824 | 824 | 1147 | 1147 | 1557 | 1557 |
| Dimensions - depth | mm | 245 | 245 | 245 | 245 | 300 | 300 |
| Weight | kg | 11 | 12 | 16 | 17 | 26 | 27 |
| Serial colour | | white | white | white | white | white | white |
| WLT EC with 3-way valve | | WLT 30-3 EC | WLT 40-3 EC | WLT 50-3 EC | WLT 60-3 EC | WLT 80-3 EC | WLT 90-3 EC |
| Ref. no. | | 1614830 | 1614840 | 1614850 | 1614860 | 1614880 | 1614890 |
| WLT EC with 2-way valve | | WLT 30-2 EC | WLT 40-2 EC | WLT 50-2 EC | WLT 60-2 EC | WLT 80-2 EC | WLT 90-2 EC |
| Ref. no. | | 1614831 | 1614841 | 1614851 | 1614861 | 1614881 | 1614891 |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

⁴⁾ Distance of 1 m in open air

²⁾ Room temperature TK 27°C, FK 19°C; medium inlet 7°C, medium outlet 12°C

³⁾ Room temperature TK 20°C, FK 14°C; medium inlet 50°C, rated volume flow rate as in cooling operation

Accessories

| Unit type | WLT 30 EC | WLT 40 EC | WLT 50 EC | WLT 60 EC | WLT 80 EC | WLT 90 EC |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Cabled remote control KF-21 | | | | | | |
| | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 |
| Precision room temperature controller RR-21.2 | | | | | | |
| | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 |
| Room temperature controller RR-22.2 | | | | | | |
| | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 |
| Room temperature sensor | | | | | | |
| For controllers RR-21.2 and RR-22.2 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor | | | | | | |
| For controllers RR-21.2 and RR-22.2 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |

Accessories

| Unit type | WLT 30 EC | WLT 40 EC | WLT 50 EC | WLT 60 EC | WLT 80 EC | WLT 90 EC |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| KP-8 condensate pump | | | | | | |
| | 1613125 | 1613125 | 1613125 | 1613125 | 1613125 | 1613125 |



Cabled remote control KF-21

For surface mounting, operation of individual units and group switching of up to max. 32 units



Precision room temperature controller RR-21.2

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22.2

For the surface mounting and control of the essential unit functions.



KP-8 condensate pump

For draining the condensate that occurs.

REMKO KWD SERIES

Ceiling cassette in 2-pipe design with 5-speed fan



REMKO KWD SERIES

Ceiling cassettes in compact European standard grid format

The small design height of the ceiling-mounted cassettes of 258 and 298 mm allows installation in almost every false ceiling. The discharge of air to all four sides ensures even air distribution. The copper-aluminium round heat exchangers are designed for medium temperatures of up to 70 °C.

The five-speed, adjustable radial fan allows the optimal adaptation of the air flow rate to prevailing conditions so that an individual feeling of comfort is considerably improved. Ceiling-mounted cassettes are fitted as standard with an internal condensate pump. Optionally, fresh air can be blown in, or adjoining rooms can also be cooled.

- Elegant solution for ceiling installation
- Dimensions in European standard grid format
- Quiet operation
- Service-friendly device structure
- Low height
- "Silent" and "Turbo" modes
- With infrared remote control
- Programmable 24-hour timer function
- Air outlet with possible swing function
- 5 fan speeds
- Installed condensate pump (up to 1000 mmWS)

Regulation

In the KWD unit series, the cooling, heating, ventilation, or dehumidification modes of the ceiling cassettes can be controlled automatically or manually by the operator using an infrared remote control. The desired room temperature, activation or deactivation time, and the current time can be set easily at the press of a button. When several ceiling cassettes are used with a room or building, an infrared remote control can be used in an internal network for all devices. With a cabled remote control within an internal network, each individual ceiling cassette can be individually addressed and programmed. The line can be regulated on the medium side using the optional three-way valve subassembly or using a valve subassembly that must be adapted to the plant.



Cabled remote control KF-21

For surface mounting, operation of individual units.
Group switching of up to a maximum of 32 units possible.

Technical data

| Unit type | | KWD 25 | KWD 35 | KWD 45 | KWD 55 | KWD 70 | KWD 85 | KWD 100 |
|--|---------|--|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|
| Cooling capacity ^{1) 2)} | kW | 2.7 | 3.3 | 4.3 | 5.4 | 7.1 | 8.1 | 9.4 |
| Heating capacity ^{1) 3)} | kW | 3.5 | 4.3 | 5.6 | 6.9 | 9.2 | 10.5 | 11.0 |
| Air flow rate per speed setting | m³/h | 375/400/420/ 445/490 | 395/420/440/ 490/520 | 455/500/520/ 565/650 | 550/620/665/ 740/855 | 620/700/830/ 970/1030 | 900/960/1040/ 1240/1350 | 970/1020/1140/ 1260/1500 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 27/29/32/ 34/35 | 29/31/32/ 33/35 | 31/33/35/ 37/39 | 34/36/38/ 40/42 | 31/34/37/ 40/42 | 35/39/41/ 43/45 | 37/40/42/ 44/47 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Electr. rated power consumption | kW | 0.04 | 0.04 | 0.07 | 0.09 | 0.07 | 0.15 | 0.17 |
| Electr. rated current consumption | A | 0.20 | 0.24 | 0.35 | 0.44 | 0.38 | 0.68 | 0.78 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | |
| Max. operating pressure | kPa | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| Medium connectors | Inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Rated flow rate, medium | m³/h | 0.53 | 0.57 | 0.75 | 0.84 | 1.22 | 1.39 | 1.45 |
| Rated pressure drop, internal | kPa | 15.0 | 18.0 | 25.0 | 20.0 | 30.0 | 38.0 | 42.0 |
| Medium volume - register | L | 1.3 | 1.3 | 1.3 | 1.79 | 2.84 | 3.22 | 3.22 |
| Ceiling cassette dimensions H | mm | 258 | 258 | 258 | 298 | 298 | 298 | 298 |
| Ceiling cassette dimensions B | mm | 570 | 570 | 570 | 570 | 570 | 570 | 570 |
| Ceiling cassette dimensions D | mm | 570 | 570 | 570 | 570 | 1110 | 1110 | 1110 |
| Dimensions of cover H | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Dimensions of cover B | mm | 650 | 650 | 650 | 650 | 690 | 690 | 690 |
| Dimensions of cover T | mm | 650 | 650 | 650 | 650 | 1220 | 1220 | 1220 |
| Weight | kg | 28 | 28 | 28 | 31 | 57 | 59 | 59 |
| Serial colour | | White, similar to RAL 9003 | | | | | | |
| Ref. no. | | 1611860 | 1611862 | 1611864 | 1611866 | 1611868 | 1611870 | 1611872 |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27°C, FK 19°C; medium inlet 7°C, medium outlet 12°C

³⁾ Room temperature TK 20°C, FK 14°C; medium inlet 50°C, rated volume flow rate as in cooling operation

⁴⁾ Distance of 1 m in the open air

Accessories

| Unit type | KWD 25 | KWD 35 | KWD 45 | KWD 55 | KWD 70 | KWD 85 | KWD 100 |
|---|---------|---------|---------|---------|---------|---------|---------|
| Cabled remote control KF-21 | | | | | | | |
| | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 |
| Bus connecting line | | | | | | | |
| | 1611393 | 1611393 | 1611393 | 1611393 | 1611393 | 1611393 | 1611393 |
| Two-way valve assembly | | | | | | | |
| | 1611507 | 1611507 | 1611507 | 1611507 | 1611508 | 1611508 | 1611508 |
| Three-way valve assembly | | | | | | | |
| | 1611511 | 1611511 | 1611511 | 1611511 | 1611512 | 1611512 | 1611512 |
| Fault message module SB-1 | | | | | | | |
| | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |
| BioClean system, installed | | | | | | | |
| | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 |
| Radio control for BioClean system | | | | | | | |
| | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | | | | | | | |
| | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |

Accessories

| Unit type | KWD 25 | KWD 35 | KWD 45 | KWD 55 | KWD 70 | KWD 85 | KWD 100 |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|
| KP-5 condensate pump | | | | | | | |
| | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 |
| Condensate tube, separate | | | | | | | |
| For condensate pump KP-5 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 |



Fault message module SB-1

With potential-free contact for the display of fault messages in cooling operation.



Two-way/three-way valve assembly

For interrupting/controlling the medium volume flow rate in cooling or heating operation.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean system

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO KWD EC SERIES

Ceiling cassette in 2-pipe design with multifunctional control technology



REMKO KWD EC SERIES

Ceiling-mounted cassettes in the compact European standard grid format with EC fans and multifunctional control technology

The new generation of ceiling cassettes are equipped with modern, highly economical EC fans. These enable an infinitely variable speed control with extremely high efficiency - especially in the partial-load range. The result: draught-free cooling and low-noise unit operation.

The low design height of the ceiling-mounted cassettes of just 258 and 298 mm respectively allows installation in almost any false ceiling. Air distribution via a round heat exchanger with a medium temperature of up to 70 °C takes place using all four unit sides below the false ceiling.

Ceiling-mounted cassettes are fitted as standard with an internal condensate pump. Fresh air can be blown in or adjoining rooms can be cooled as an option.

Actual functional conditions can be processed further with potential-free error and operation contacts.

- Elegant solution for ceiling installation
- Dimensions in European standard grid format
- Quiet operation
- With infrared remote control
- Programmable 24-hour timer function
- Air outlet with possible swing function
- Master and slave function
- Potential-free fault and operating contacts
- Installed condensate pump (up to 1000 mmWS)
- Connection for fresh air supply and cooling second room



Regulation

The cooling, heating, ventilation or dehumidifying operating modes, the desired room temperature, switch-on or switch-off time, operation of swing fins and 5 fan speeds can be set with the standard-equipment infrared remote control. When several ceiling cassettes are used with a room or building, an infrared remote control can be used in an internal network for all devices. With a cabled remote control within an internal network, each individual ceiling cassette can be individually addressed and programmed. Output control of the medium can be achieved through the optional two or three-way valve assembly.

- Standard infrared remote control with 5 fan speeds
- Individual or group control possible
- Building control technology with variable control



Cabled remote control KF-21

For surface mounting, operation of individual units. Group switching of up to a maximum of 32 units possible.



Precision room temperature controller RR-21.2

Parametrisable regulation for surface mounting with various additional functions.

Technical data

| Unit type | | KWD 25 EC | KWD 35 EC | KWD 45 EC | KWD 55 EC | KWD 70 EC | KWD 85 EC | KWD 100 EC |
|--|-------------------|--|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|
| Cooling capacity ^{1) 2)} | kW | 2.6 | 3.2 | 4.4 | 5.2 | 6.9 | 8.4 | 9.7 |
| Heating capacity ^{1) 3)} | kW | 3.7 | 4.1 | 5.4 | 6.8 | 8.7 | 11.2 | 12.3 |
| Air flow rate per speed setting | m ³ /h | 180/220/320/ 390/440 | 220/320/390/ 440/520 | 215/343/397/ 566/684 | 229/606/665/ 793/974 | 385/610/700/ 780/1030 | 395/835/1057/ 1285/1587 | 393/1057/1157/ 1380/1678 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 21/21/23/ 25/27 | 21/23/25/ 27/33 | 22/26/29/ 37/42 | 21/35/38/ 42/47 | 28/29/30/ 34/37 | 27/34/43/ 45/50 | 28/45/46/ 48/53 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Electr. rated power consumption | kW | 0.01 | 0.02 | 0.04 | 0.06 | 0.04 | 0.11 | 0.12 |
| Electr. rated current consumption | A | 0.09 | 0.13 | 0.22 | 0.33 | 0.22 | 0.54 | 0.62 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | |
| Max. operating pressure | kPa | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| Medium connectors | Inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Rated flow rate, medium | m ³ /h | 0.45 | 0.55 | 0.78 | 0.91 | 0.98 | 1.45 | 1.66 |
| Rated pressure drop, internal | kPa | 10.2 | 15.0 | 25.1 | 23.1 | 29.7 | 39.9 | 49.4 |
| Medium volume, cooling register | L | 1.3 | 1.3 | 1.3 | 1.8 | 2.1 | 3.2 | 3.2 |
| Ceiling cassette dimensions H | mm | 258 | 258 | 258 | 298 | 298 | 298 | 298 |
| Ceiling cassette dimensions B | mm | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Ceiling cassette dimensions D | mm | 580 | 580 | 580 | 580 | 1110 | 1110 | 1110 |
| Dimensions of cover H | mm | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Dimensions of cover B | mm | 650 | 650 | 650 | 650 | 690 | 690 | 690 |
| Dimensions of cover T | mm | 650 | 650 | 650 | 650 | 1220 | 1220 | 1220 |
| Weight | kg | 28 | 28 | 28 | 31 | 57 | 58 | 58 |
| Serial colour | | White, similar to RAL 9003 | | | | | | |
| Ref. no. | | 1611880 | 1611882 | 1611884 | 1611886 | 1611888 | 1611890 | 1611892 |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27°C, FK 19°C; medium inlet 7°C, medium outlet 12°C

³⁾ Room temperature TK 20°C, FK 14°C; medium inlet 50°C, medium outlet 45°C

⁴⁾ Distance of 1 m in the open air

Accessories

| Unit type | KWD 25 EC | KWD 35 EC | KWD 45 EC | KWD 55 EC | KWD 70 EC | KWD 85 EC | KWD 100 EC |
|---|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Cabled remote control KF-21 | | | | | | | |
| | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 |
| Precision room temperature controller RR-21.2 | | | | | | | |
| | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 |
| Room temperature controller RR-22.2 | | | | | | | |
| | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 |
| Two-way valve assembly | | | | | | | |
| | 1611507 | 1611507 | 1611507 | 1611507 | 1611508 | 1611508 | 1611508 |
| Three-way valve assembly | | | | | | | |
| | 1611511 | 1611511 | 1611511 | 1611511 | 1611512 | 1611512 | 1611512 |
| BioClean system, installed | | | | | | | |
| | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 |
| Radio control for BioClean system | | | | | | | |
| | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | | | | | | | |
| | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |

Accessories

| Unit type | KWD 25 EC | KWD 35 EC | KWD 45 EC | KWD 55 EC | KWD 70 EC | KWD 85 EC | KWD 100 EC |
|---|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| KP-5 condensate pump | | | | | | | |
| | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 |
| Condensate tube, separate For condensate pump KP-5 | | | | | | | |
| | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 |



Room temperature controller RR-22.2

For the surface mounting and control of the essential unit functions.



Two-way/three-way valve assembly

For interrupting/controlling the medium volume flow rate in cooling or heating operation.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean system

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO KWD EC COANDA SERIES

Ceiling cassette in 2-pipe design with 360-degree air outlet

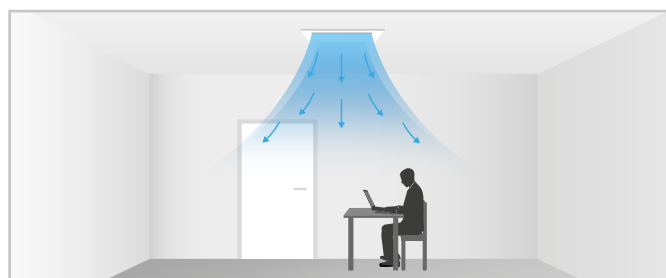


REMKO KWD EC COANDA SERIES

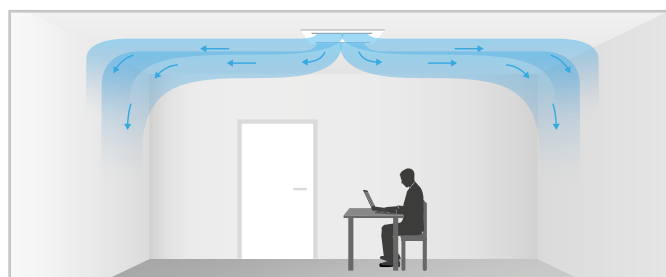
Ceiling cassettes with EC fans and Coanda screen for low-flow unit operation and optimum air distribution

KWD EC Coanda ceiling cassettes use the physical properties of flowing air to evenly air-condition a room. Due to the specially designed unit cover, the air outlet is located at a small distance parallel to the ceiling, which creates a vacuum and increases the range. The flowing air thus falls into the room only slowly and draught-free.

Compared to conventional systems, a more even air distribution is possible with the Coanda screen. A significantly more pleasant feel-good climate is created without drafts.



Air distribution with standard screen



Air distribution with Coanda screen

EPA filter for air cleaning

As an option, the units can be equipped with an EPA filter (high-performance particle filter), which can meet particularly high demands on room air quality. This filters out about 99.5% of all suspended particles from the air, including pollen, mites, smoke particles and bacteria. This enables a particularly high level of air purity.

Areas of application of the EPA filter

- Medical practices
- Clean rooms for measuring technology
- Laboratories
- Rooms with increased air quality requirements



Cabled remote control KF-21

For surface mounting, operation of individual units. Group switching of up to a maximum of 32 units possible.



Precision room temperature controller RR-21.2

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22.2

For the surface mounting and control of the essential unit functions.

Technical data

| Unit type | | KWD 25 EC Coanda | KWD 35 EC Coanda | KWD 45 EC Coanda | KWD 55 EC Coanda | KWD 70 EC Coanda | KWD 85 EC Coanda | KWD 100 EC Coanda |
|--|---------|--|-------------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|
| Data with standard filter (nylon) | | | | | | | | |
| Cooling capacity ^{1) 2)} | kW | 2.6 | 3.2 | 4.4 | 5.2 | 6.9 | 8.4 | 9.7 |
| Heating capacity ^{1) 3)} | kW | 3.7 | 4.1 | 5.4 | 6.8 | 8.7 | 11.2 | 12.3 |
| Air flow rate per speed setting | m³/h | 180/220/320/ 390/440 | 220/320/390/ 440/520 | 215/343/397/ 566/684 | 229/606/665/ 793/974 | 385/610/700/ 780/1030 | 395/835/1057/ 1285/1587 | 393/1057/1157/ 1380/1678 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 21/21/23/ 25/27 | 21/23/25/ 27/33 | 22/26/29/ 37/42 | 21/35/38/ 42/47 | 28/29/30/ 34/37 | 27/34/43/ 45/50 | 28/45/46/ 48/53 |
| Data with EPA filter (class E12) | | | | | | | | |
| Cooling capacity ^{1) 2)} | kW | 1.5 | 1.9 | 2.5 | 3.0 | – | 4.3 | 4.5 |
| Heating capacity ^{1) 3)} | kW | 2.0 | 2.4 | 3.1 | 3.9 | – | 5.7 | 5.9 |
| Air flow rate per speed setting | m³/h | 122/133/194/ 236/267 | 133/194/236/ 267/316 | 141/225/261/ 372/449 | 147/390/428/ 510/626 | – | 222/469/594/ 722/890 | 222/570/623/ 744/904 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 21/21/23/ 25/27 | 21/23/25/ 27/33 | 22/26/29/ 37/42 | 21/35/38/ 42/47 | – | 24/34/43/ 45/50 | 24/45/46/ 48/53 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Electr. rated power consumption | kW | 0.01 | 0.02 | 0.04 | 0.06 | 0.04 | 0.11 | 0.12 |
| Electr. rated current consumption | A | 0.09 | 0.13 | 0.22 | 0.33 | 0.22 | 0.54 | 0.62 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | |
| Max. operating pressure | kPa | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
| Medium connectors | Inch | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Rated flow rate, medium | m³/h | 0.45 | 0.55 | 0.78 | 0.91 | 0.98 | 1.45 | 1.66 |
| Rated pressure drop, internal | kPa | 10.2 | 15.0 | 25.1 | 23.1 | 29.7 | 39.9 | 49.4 |
| Medium volume, cooling register | L | 1.3 | 1.3 | 1.3 | 1.8 | 2.1 | 3.2 | 3.2 |
| Ceiling cassette dimensions H | mm | 258 | 258 | 258 | 298 | 298 | 298 | 298 |
| Ceiling cassette dimensions B | mm | 580 | 580 | 580 | 580 | 580 | 580 | 580 |
| Ceiling cassette dimensions D | mm | 580 | 580 | 580 | 580 | 1110 | 1110 | 1110 |
| Dimensions of cover H | mm | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Dimensions of cover B | mm | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Dimensions of cover T | mm | 600 | 600 | 600 | 600 | 1200 | 1200 | 1200 |
| Weight | kg | 31 | 31 | 31 | 34 | 63 | 64 | 64 |
| Serial colour | | White, similar to RAL 9010 | | | | | | |
| With standard filter | | | | | | | | |
| Ref. no. | | 1611950 | 1611952 | 1611954 | 1611956 | 1611958 | 1611960 | 1611962 |
| With EPA filter | | | | | | | | |
| Ref. no. | | 1611964 | 1611966 | 1611968 | 1611970 | – | 1611974 | 1611976 |

¹⁾ Rated flow rate of medium; 0% glycol concentration; max. air flow rate

²⁾ Room temperature TK 27°C, FK 19°C, medium inlet 7°C, medium outlet 12°C

³⁾ Room temperature TK 20°C, FK 14°C; medium inlet 50°C, medium outlet 45°C

⁴⁾ Distance 1 m in open air

Accessories

| Unit type | KWD 25 EC Coanda | KWD 35 EC Coanda | KWD 45 EC Coanda | KWD 55 EC Coanda | KWD 70 EC Coanda | KWD 85 EC Coanda | KWD 100 EC Coanda |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Cabled remote control KF-21 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 | 1611398 |
| Precision room temperature controller RR-21.2 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 |
| Room temperature controller RR-22.2 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 |
| Two-way valve assembly | 1611507 | 1611507 | 1611507 | 1611507 | 1611508 | 1611508 | 1611508 |
| Three-way valve assembly | 1611511 | 1611511 | 1611511 | 1611511 | 1611512 | 1611512 | 1611512 |
| EPA filter (class E12) | 1108886 | 1108886 | 1108886 | 1108886 | – | 2x 1108886 | 2x 1108886 |
| BioClean system, installed | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 | 1665062 |
| Radio control for BioClean system | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |

Accessories

| Unit type | KWD 25 EC Coanda | KWD 35 EC Coanda | KWD 45 EC Coanda | KWD 55 EC Coanda | KWD 70 EC Coanda | KWD 85 EC Coanda | KWD 100 EC Coanda |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| KP-5 condensate pump | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 | 1613168 |
| Condensate tube, separate For condensate pump KP-5 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 | 1613097 |



EPA filter

Class E12 high-performance particle filter. Filter change recommended after 500 operating hours.



Two-way/three-way valve assembly

For interrupting/controlling the medium volume flow rate in cooling or heating operation.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean system

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO DKT-4 SERIES

Ceiling cassettes in 4-pipe design



REMKO DKT-4 SERIES

Ceiling cassettes for heating and cooling

The hot room air is suctioned in a centred manner via an internal regenerative air filter. The four-sided special diffuser cover allows two, three or four sided air distribution below the ceiling. The three-stage radial low-noise radial fan allows the optimal adaptation of the airflow volume to prevailing conditions. The copper-aluminium heat exchangers are designed for medium temperatures of up to 80°C. The units are fitted as standard with a condensate pump. Optionally, fresh air can be blown in, or adjoining rooms can also be cooled. A "cooling" valve assembly is supplied as standard for medium control. The control of the heating circuit can be adapted to the unit.

- The ideal solution for optically discreet air conditioning
- Dimensions in European standard grid format
- Quiet operation
- Service-friendly device structure
- Air outlet with adjustable slats
- Installed condensate pump
- With "Cooling" valve assembly, including connection piping

Regulation

Ceiling mounted cassettes for insertion into false ceilings are operated using a room temperature control or a precision room temperature control, either individually or in groups. The elegant and functional controls can be integrated into any wall decoration. The operating panel has a selector switch for the operating mode and the fan speed, a main switch, and a temperature controller for setting the desired room temperature.



Precision room temperature controller RR-21

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22

For the surface mounting and control of the essential unit functions.

Technical data

| Unit type | | DKT 21-4 | DKT 51-4 | DKT 71-4 |
|--|---------|--|-------------|--------------|
| Cooling capacity ^{1) 2)} | kW | 2.2 | 4.1 | 6.7 |
| Heating capacity ^{1) 3)} | kW | 1.9 | 6.8 | 11.5 |
| Air flow rate per speed setting | m³/h | 360/450/660 | 485/625/900 | 500/825/1160 |
| Sound pressure level per speed setting ⁴⁾ | dB(A) | 23/28/38 | 33/39/48 | 28/37/44 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Electr. rated power consumption | kW | 0.06 | 0.09 | 0.09 |
| Electr. rated current consumption | A | 0.27 | 0.41 | 0.46 |
| Operating medium | | Water; max. 35% ethylene glycol; max. 35% propylene glycol | | |
| Max. operating pressure | kPa | 1400 | 1400 | 1400 |
| Medium connectors - cooling register | Inch | 3/4 | 3/4 | 1 |
| Medium connectors - heating register | Inch | 1/2 | 1/2 | 3/4 |
| Rated flow rate, medium - cooling | m³/h | 0.40 | 1.10 | 1.52 |
| Rated flow rate, medium - heating | m³/h | 0.10 | 0.60 | 0.99 |
| Rated pressure drop, internal - cooling | kPa | 13.7 | 13.10 | 23.20 |
| Rated pressure drop, internal - heating | kPa | 31.4 | 29.2 | 13.60 |
| Medium volume, cooling register/heating register | L | 0.4/0.1 | 1.1/0.6 | 2.4/1.2 |
| Dimensions, ceiling cassette - height | mm | 298 | 298 | 298 |
| Dimensions, ceiling cassette - width | mm | 570 | 570 | 825 |
| Dimensions, ceiling cassette - depth | mm | 570 | 570 | 825 |
| Dimensions of cover - height | mm | 30 | 30 | 30 |
| Dimensions of cover - width | mm | 720 | 720 | 960 |
| Dimensions of cover - depth | mm | 720 | 720 | 960 |
| Weight of ceiling cassette/cover | kg | 19.0/2.5 | 20.0/2.5 | 39.6/5.0 |
| Serial colour | | white | white | white |
| Ref. no. | | 1611302 | 1611322 | 1611342 |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27°C, FK 19°C; medium inlet 7°C, medium outlet 12°C

³⁾ Room temperature TK 20°C, FK 14°C; medium inlet 70 °C, medium outlet 60 °C

⁴⁾ Distance of 1 m in the open air with hypotetic sound absorption of -9 dB(A) indoors

Accessories

| Unit type | DKT 21-4 | DKT 51-4 | DKT 71-4 |
|--|-----------|-----------|-----------|
| Precision room temperature controller RR-21 | | | |
| | 1611396 | 1611396 | 1611396 |
| Room temperature controller RR-22 | | | |
| | 1611397 | 1611397 | 1611397 |
| Room temperature sensor | | | |
| For controllers RR-21 and RR-22 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor | | | |
| For controllers RR-21 and RR-22 | 1611381-1 | 1611381-1 | 1611381-1 |
| Switching relay SR-1 | | | |
| | 1661105 | 1661105 | 1661105 |
| Three-way valve assembly | | | |
| 4-pipe system | 1611322-1 | 1611322-1 | 1611342-1 |
| Fault message module SB-1 | | | |
| | 1611506 | 1611506 | 1611506 |

Accessories

| Unit type | DKT 21-4 | DKT 51-4 | DKT 71-4 |
|----------------------------------|----------|----------|----------|
| KP-5 condensate pump | | | |
| | 1613168 | 1613168 | 1613168 |
| Condensate tube, separate | | | |
| For condensate pump KP-5 | 1613097 | 1613097 | 1613097 |



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Three-way valve assembly, 4-pipe system

For controlling the medium volume flow rate in cooling and heating mode.



Fault message module SB-1

With potential-free contact for the display of fault messages in cooling operation.



KP-5 condensate pump

For draining the condensate that occurs.

REMKO KWK (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design



KWK DM series



REMKO KWK (DM) SERIES

The wall and ceiling chests are characterised by a discreet design

The wall and ceiling cabinets can be used for both vertical installation on the wall or for horizontal installation under the ceiling. They are extremely well-suited for installation in offices and meeting rooms, banks, business and in private residences.

REMKO wall or ceiling chests are equipped with the latest technology and offer exceptional flexibility in terms of installation. The medium connections are fitted as standard in the housing on the left-hand side. The controller can optionally be mounted right on the device or on a wall. It is possible for the connections and controls to exchange sides. The standard colour of the elegant housing is white, and the outlet grille is finished in white plastic. The air passes through a reclaimable filter in the unit. An extremely low-noise three-stage tangential fan provides impeccable air distribution and maximises vent output. The copper-aluminium register is designed for medium temperatures of up to 80°C. The unit can easily be upgraded to a 4-pipe system through the installation of a heating register.

- The ideal solution for optically discreet air conditioning
- Quiet operation
- Simple equipping of the unit in a 4-pipe design
- For horizontal and vertical installation



KWK series

Technical data

| Unit type | |
|---|---------|
| Cooling capacity ^{1) 2)} | kW |
| Heating capacity ^{1) 3)} | kW |
| Air flow rate per speed setting | m³/h |
| Sound pressure level per speed setting ⁴⁾ | dB(A) |
| Voltage supply | V/Ph/Hz |
| Rated power consumption ¹⁾ | W |
| Rated current consumption ¹⁾ | A |
| Operating medium | |
| Max. operating pressure | kPa |
| Medium connectors - cooling register | Inch |
| Rated flow volume, medium K ²⁾ /H ³⁾ | m³/h |
| Rated pressure drops, medium K ²⁾ /H ³⁾ | kPa |
| Medium volume | L |
| Dimensions - height | mm |
| Dimensions - width | mm |
| Dimensions - depth | mm |
| Serial colour | |
| Weight of KWK | kg |
| Weight of KWK DM | kg |
| KWK chest unit for wall/upright installation | |
| Ref. no. | |
| KWK DM chest unit for ceiling installation | |
| Ref. no. | |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27 °C, FK 19 °C; medium inlet 7 °C, medium outlet 12 °C

³⁾ Room temperature TK 20 °C, FK 14 °C; medium inlet 45 °C, medium outlet 40 °C

⁴⁾ Measured in 100 m³ room with a reverberation period of 0.3 seconds, distance 1.0 m



| KWK 125 (DM) | KWK 165 (DM) | KWK 205 (DM) | KWK 255 (DM) | KWK 305 (DM) | KWK 355 (DM) | KWK 455 (DM) | KWK 535 (DM) | KWK 595 (DM) | KWK 725 (DM) |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1.20 | 1.63 | 2.09 | 2.51 | 3.08 | 3.51 | 4.54 | 5.35 | 5.92 | 7.24 |
| 1.49 | 2.02 | 2.42 | 2.87 | 3.47 | 4.03 | 4.95 | 5.77 | 6.27 | 7.65 |
| 120/200/260 | 140/220/290 | 190/290/370 | 210/320/410 | 280/390/490 | 310/420/530 | 400/570/730 | 430/610/780 | 420/630/870 | 450/670/920 |
| 17/25/32 | 17/25/32 | 23/31/39 | 23/31/39 | 21/27/33 | 21/27/33 | 26/34/42 | 26/34/42 | 24/33/43 | 24/33/43 |
| 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| 35 | 39 | 47 | 51 | 59 | 71 | 97 | 107 | 120 | 139 |
| 0.15 | 0.17 | 0.20 | 0.22 | 0.26 | 0.31 | 0.42 | 0.47 | 0.52 | 0.60 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | | | |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 0.21/0.26 | 0.28/0.35 | 0.36/0.42 | 0.43/0.49 | 0.53/0.60 | 0.60/0.69 | 0.78/0.87 | 0.92/0.99 | 1.02/1.08 | 1.24/1.31 |
| 10.5/13.0 | 13.3/16.5 | 15.3/17.7 | 17.3/19.7 | 18.6/20.9 | 19.9/22.9 | 20.2/22.5 | 22.6/24.3 | 22.6/24.0 | 23.4/24.8 |
| 0.7 | 0.7 | 1.0 | 1.0 | 1.4 | 1.4 | 1.7 | 1.7 | 2.0 | 2.0 |
| 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 |
| 670 | 670 | 870 | 870 | 1070 | 1070 | 1270 | 1270 | 1470 | 1470 |
| 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| similar to RAL 9010 | | | | | | | | | |
| 13.5 | 14.0 | 16.4 | 17.2 | 22.5 | 23.5 | 26.0 | 27.5 | 30.0 | 31.5 |
| 14.7 | 15.2 | 18.0 | 18.8 | 24.5 | 25.5 | 28.4 | 29.9 | 32.8 | 34.3 |
| 1664100 | 1664110 | 1664120 | 1664130 | 1664140 | 1664150 | 1664160 | 1664170 | 1664180 | 1664190 |
| 1664200 | 1664210 | 1664220 | 1664230 | 1664240 | 1664250 | 1664260 | 1664270 | 1664280 | 1664290 |

REMKO KWK (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design

Wall/ceiling chests

| Unit type | KWK 125 (DM) | KWK 165 (DM) | KWK 205 (DM) | KWK 255 (DM) |
|--|--------------|--------------|--------------|--------------|
| KWK chest unit for wall/upright installation | 1664100 | 1664110 | 1664120 | 1664130 |
| KWK DM chest unit for ceiling installation | 1664200 | 1664210 | 1664220 | 1664230 |

Accessories

Regulation

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Built-in controller RR-15 | 1665001 | 1665001 | 1665001 | 1665001 |
| Built-in controller RR-16 | 1665002 | 1665002 | 1665002 | 1665002 |
| Built-in controller RR-17 | 1665003 | 1665003 | 1665003 | 1665003 |
| Precision room temperature controller RR-21 | 1611396 | 1611396 | 1611396 | 1611396 |
| Room temperature controller RR-22 | 1611397 | 1611397 | 1611397 | 1611397 |
| Room temperature sensor for RR-21 and RR-22 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor for RR-21 and RR-22 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| Switching relay SR-1 | 1661105 | 1661105 | 1661105 | 1661105 |

Valve assemblies, 2-pipe system

| | | | | |
|---|---------|---------|---------|---------|
| Two-way, vert. Wall installation | 1665020 | 1665020 | 1665020 | 1665020 |
| Two-way, horiz. Ceiling installation (KWK DM) | 1665025 | 1665025 | 1665025 | 1665025 |
| Three-way, vert. Wall installation | 1665010 | 1665010 | 1665010 | 1665010 |
| Three-way, horiz. Ceiling installation (KWK DM) | 1665015 | 1665015 | 1665015 | 1665015 |

Valve assemblies, 4-pipe system

| | | | | |
|---|---------|---------|---------|---------|
| Two-way, vert. Wall installation | 1665040 | 1665040 | 1665040 | 1665040 |
| Two-way, horiz. Ceiling installation (KWK DM) | 1665045 | 1665045 | 1665045 | 1665045 |
| Three-way, vert. Wall installation | 1665030 | 1665030 | 1665030 | 1665030 |
| Three-way, horiz. Ceiling installation (KWK DM) | 1665035 | 1665035 | 1665035 | 1665035 |

Other accessories

| | | | | |
|---|---------|---------|---------|---------|
| Condensate pump, vertical | 1665050 | 1665050 | 1665050 | 1665050 |
| Condensate pump, horizontal (KWK DM) | 1665051 | 1665051 | 1665051 | 1665051 |
| Air inlet socket | 1665130 | 1665130 | 1665131 | 1665131 |
| Stand support | 1665120 | 1665120 | 1665120 | 1665120 |
| Connecting line, flexible, 100 mm, 2-pipe | 1665125 | 1665125 | 1665125 | 1665125 |
| Connecting line, flexible, 200 mm, 2-pipe | 1665126 | 1665126 | 1665126 | 1665126 |
| Connecting line, flexible, 100 mm, 4-pipe | 1665127 | 1665127 | 1665127 | 1665127 |
| Connecting line, flexible, 200 mm, 4-pipe | 1665128 | 1665128 | 1665128 | 1665128 |
| Heating register, 4-pipe system | 1665175 | 1665175 | 1665176 | 1665176 |
| Fault message module SB-1 | 1611506 | 1611506 | 1611506 | 1611506 |
| BioClean system, installed | 1665061 | 1665061 | 1665061 | 1665061 |
| Radio control for BioClean system | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | 1665060 | 1665060 | 1665060 | 1665060 |



Built-in controller RR-15

For setting the operating mode and choosing between 3 fan speeds.



Built-in controller RR-16

For setting the operating mode and choosing between 3 fan speeds and automatic mode.



Built-in controller RR-17

With digital display of actual and set temperature, as well as various adjustment options.



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Precision room temperature controller RR-21

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22

For the surface mounting and control of the essential unit functions.



Air inlet socket

With air inlet grid for the optical disguising of the air inlet area.



Stand support

For mounting to the bottom of the unit when erecting the unit on the floor.

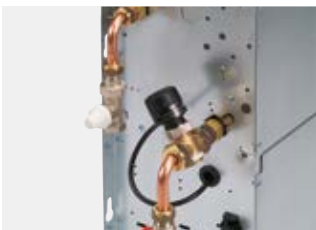
| KWK 305 (DM) | KWK 355 (DM) | KWK 455 (DM) | KWK 535 (DM) | KWK 595 (DM) | KWK 725 (DM) |
|--------------|--------------|--------------|--------------|--------------|--------------|
| 1664140 | 1664150 | 1664160 | 1664170 | 1664180 | 1664190 |
| 1664240 | 1664250 | 1664260 | 1664270 | 1664280 | 1664290 |

| | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|
| 1665001 | 1665001 | 1665001 | 1665001 | 1665001 | 1665001 |
| 1665002 | 1665002 | 1665002 | 1665002 | 1665002 | 1665002 |
| 1665003 | 1665003 | 1665003 | 1665003 | 1665003 | 1665003 |
| 1611396 | 1611396 | 1611396 | 1611396 | 1611396 | 1611396 |
| 1611397 | 1611397 | 1611397 | 1611397 | 1611397 | 1611397 |
| 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| 1661105 | 1661105 | 1661105 | 1661105 | 1661105 | 1661105 |

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 1665020 | 1665020 | 1665020 | 1665020 | 1665020 | 1665020 |
| 1665025 | 1665025 | 1665025 | 1665025 | 1665025 | 1665025 |
| 1665010 | 1665010 | 1665010 | 1665010 | 1665010 | 1665010 |
| 1665015 | 1665015 | 1665015 | 1665015 | 1665015 | 1665015 |

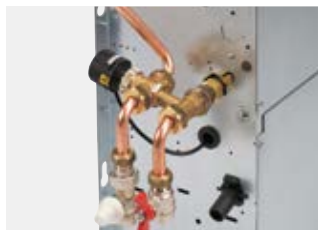
| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 1665040 | 1665040 | 1665040 | 1665040 | 1665040 | 1665040 |
| 1665045 | 1665045 | 1665045 | 1665045 | 1665045 | 1665045 |
| 1665030 | 1665030 | 1665030 | 1665030 | 1665030 | 1665030 |
| 1665035 | 1665035 | 1665035 | 1665035 | 1665035 | 1665035 |

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| 1665050 | 1665050 | 1665050 | 1665050 | 1665050 | 1665050 |
| 1665051 | 1665051 | 1665051 | 1665051 | 1665051 | 1665051 |
| 1665132 | 1665132 | 1665133 | 1665133 | 1665134 | 1665134 |
| 1665120 | 1665120 | 1665120 | 1665120 | 1665120 | 1665120 |
| 1665125 | 1665125 | 1665125 | 1665125 | 1665125 | 1665125 |
| 1665126 | 1665126 | 1665126 | 1665126 | 1665126 | 1665126 |
| 1665127 | 1665127 | 1665127 | 1665127 | 1665127 | 1665127 |
| 1665128 | 1665128 | 1665128 | 1665128 | 1665128 | 1665128 |
| 1665177 | 1665177 | 1665178 | 1665178 | 1665179 | 1665179 |
| 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |
| 1665061 | 1665061 | 1665061 | 1665061 | 1665061 | 1665061 |
| 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |



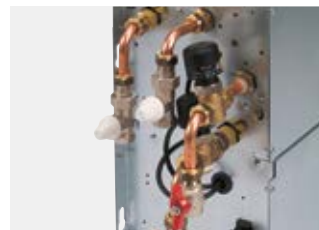
**Two-way valve assemblies,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



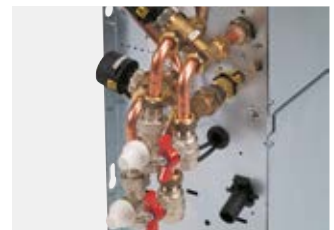
**Three-way valve assembly,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



**Two-way valve assemblies,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



**Three-way valve assembly,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



Connecting line, flexible

Extendable stainless steel corrugated tube in flat-sealing design for flexible connection of the indoor units.



Condensation pump

Built-in condensate pump for dispersing the condensate in case of units for wall/upright installation.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



**Radio control for
BioClean system**

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO KWK ZW SERIES



REMKO KWK ZW SERIES

Ceiling chests for niche installation

The optimum, invisible solution for offices, banks or hotels because of its small installation height. The rectangular device air outlet is designed to accommodate adjustable air outlet grilles for an individual distribution of air. The air is filtered in the unit's air intake with a reclaimable plug-in filter. The internal tangential fan allows multiple airflow settings. The diagonally fitted copper-aluminium heat exchanger is designed for cooling medium temperatures of up to 80°C. The unit can easily be upgraded to a 4-pipe system through the installation of a heating register. The register connections can be mounted on either side of the unit in a condensate-insulated housing. A valve assembly for 2- and 4-pipe systems are available as accessories for cooling control.

- Invisible mounting in intermediate spaces
- Low installation height
- Can be positioned flexibly
- Minimum weight
- User-friendly control
- Quiet operation
- Particularly narrow dimensions
- Simple equipping of the unit in a 4-pipe design
- For horizontal installation arrangement



Technical data

| Unit type | |
|---|---------|
| Cooling capacity ^{1) 2)} | kW |
| Heating capacity ^{1) 3)} | kW |
| Air flow rate per speed setting | m³/h |
| Sound pressure level per speed setting ⁴⁾ | dB(A) |
| Voltage supply | V/Ph/Hz |
| Rated power consumption ¹⁾ | W |
| Rated current consumption ¹⁾ | A |
| Operating medium | |
| Max. operating pressure | kPa |
| Medium connectors - cooling register | Inch |
| Rated flow volume, medium K ²⁾ /H ³⁾ | m³/h |
| Rated pressure drops, medium K ²⁾ /H ³⁾ | kPa |
| Medium volume | L |
| Dimensions - height | mm |
| Dimensions - width | mm |
| Dimensions - depth | mm |
| Weight | kg |
| Ref. no. | |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27 °C, FK 19 °C; medium inlet 7 °C, medium outlet 12 °C

³⁾ Room temperature TK 20 °C, FK 14 °C; medium inlet 45 °C, medium outlet 40 °C

⁴⁾ Measured in 100 m³ room with a reverberation period of 0.3 seconds, distance 1.0 m



| KWK 125 ZW | KWK 165 ZW | KWK 205 ZW | KWK 255 ZW | KWK 305 ZW | KWK 355 ZW | KWK 455 ZW | KWK 535 ZW | KWK 595 ZW | KWK 725 ZW |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1.20 | 1.63 | 2.09 | 2.51 | 3.08 | 3.51 | 4.54 | 5.35 | 5.92 | 7.24 |
| 1.49 | 2.02 | 2.42 | 2.87 | 3.47 | 4.03 | 4.95 | 5.77 | 6.27 | 7.65 |
| 120/200/260 | 140/220/290 | 190/290/370 | 210/320/410 | 280/390/490 | 310/420/530 | 400/570/730 | 430/610/780 | 420/630/870 | 450/670/920 |
| 17/25/32 | 17/25/32 | 23/31/39 | 23/31/39 | 21/27/33 | 21/27/33 | 26/34/42 | 26/34/42 | 24/33/43 | 24/33/43 |
| 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| 35 | 39 | 47 | 51 | 59 | 71 | 97 | 107 | 120 | 139 |
| 0.15 | 0.17 | 0.20 | 0.22 | 0.26 | 0.31 | 0.42 | 0.47 | 0.52 | 0.60 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | | | |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 0.21/0.26 | 0.28/0.35 | 0.36/0.42 | 0.43/0.49 | 0.53/0.60 | 0.60/0.69 | 0.78/0.87 | 0.92/0.99 | 1.02/1.08 | 1.24/1.31 |
| 10.5/13.0 | 13.3/16.5 | 15.3/17.7 | 17.3/19.7 | 18.6/20.9 | 19.9/22.9 | 20.2/22.5 | 22.6/24.3 | 22.6/24.0 | 23.4/24.8 |
| 0.7 | 0.7 | 1.0 | 1.0 | 1.4 | 1.4 | 1.7 | 1.7 | 2.0 | 2.0 |
| 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 |
| 545 | 545 | 745 | 745 | 945 | 945 | 1145 | 1145 | 1345 | 1345 |
| 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 |
| 11.1 | 11.6 | 13.9 | 14.7 | 19.9 | 20.9 | 23.3 | 24.8 | 27.2 | 28.7 |
| 1664300 | 1664310 | 1664320 | 1664330 | 1664340 | 1664350 | 1664360 | 1664370 | 1664380 | 1664390 |

REMKO KWK ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design
for installation into false ceilings

Ceiling chests

| Unit type | KWK 125 ZW | KWK 165 ZW | KWK 205 ZW | KWK 255 ZW |
|----------------------------|------------|------------|------------|------------|
| In 2-pipe or 4-pipe design | 1664300 | 1664310 | 1664320 | 1664330 |

Accessories

Regulation

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Precision room temperature controller RR-21 | 1611396 | 1611396 | 1611396 | 1611396 |
| Room temperature controller RR-22 | 1611397 | 1611397 | 1611397 | 1611397 |
| Room temperature sensor for RR-21 and RR-22 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor for RR-21 and RR-22 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| Switching relay SR-1 | 1661105 | 1661105 | 1661105 | 1661105 |

Valve assemblies, 2-pipe system

| | | | | |
|--|---------|---------|---------|---------|
| Two-way, horiz. Ceiling installation | 1665025 | 1665025 | 1665025 | 1665025 |
| Three-way, horiz. Ceiling installation | 1665015 | 1665015 | 1665015 | 1665015 |

Valve assemblies, 4-pipe system

| | | | | |
|--|---------|---------|---------|---------|
| Two-way, horiz. Ceiling installation | 1665045 | 1665045 | 1665045 | 1665045 |
| Three-way, horiz. Ceiling installation | 1665035 | 1665035 | 1665035 | 1665035 |

Duct connection

| | | | | |
|---|---------|---------|---------|---------|
| Canvas connecting adapter, air inlet | 1665100 | 1665100 | 1665101 | 1665101 |
| Canvas connecting adapter, air outlet | 1665105 | 1665105 | 1665106 | 1665106 |
| Duct elbow, air inlet | 1665110 | 1665110 | 1665111 | 1665111 |
| Duct elbow, air outlet | 1665115 | 1665115 | 1665116 | 1665116 |
| Flange connection, air inlet | 1665140 | 1665140 | 1665141 | 1665141 |
| Flange connection, air outlet | 1665145 | 1665145 | 1665146 | 1665146 |
| Duct piece, 100 mm, air inlet | 1665165 | 1665165 | 1665166 | 1665166 |
| Duct piece, 100 mm, air outlet | 1665150 | 1665150 | 1665151 | 1665151 |
| Duct piece, 200 mm, air outlet | 1665155 | 1665155 | 1665156 | 1665156 |
| Duct piece, 500 mm, air outlet | 1665160 | 1665160 | 1665161 | 1665161 |
| Telescopic piece | 1665170 | 1665170 | 1665171 | 1665171 |
| Air inlet grille, including filter, plastic | 1665180 | 1665180 | 1665181 | 1665181 |
| Air outlet grille, plastic | 1665185 | 1665185 | 1665186 | 1665186 |
| Air inlet grille, including filter, stainless steel | 1665190 | 1665190 | 1665191 | 1665191 |
| Air outlet grille, stainless steel | 1665195 | 1665195 | 1665196 | 1665196 |

Other accessories

| | | | | |
|--|---------|---------|---------|---------|
| Condensate pump, horizontal | 1665051 | 1665051 | 1665051 | 1665051 |
| Connecting line, flexible, 100 mm, 2-pipe system | 1665125 | 1665125 | 1665125 | 1665125 |
| Connecting line, flexible, 200 mm, 2-pipe system | 1665126 | 1665126 | 1665126 | 1665126 |
| Connecting line, flexible, 100 mm, 4-pipe system | 1665127 | 1665127 | 1665127 | 1665127 |
| Connecting line, flexible, 200 mm, 4-pipe system | 1665128 | 1665128 | 1665128 | 1665128 |
| Heating register, 4-pipe system | 1665175 | 1665175 | 1665176 | 1665176 |
| Fault message module SB-1 | 1611506 | 1611506 | 1611506 | 1611506 |
| BioClean system, installed | 1665061 | 1665061 | 1665061 | 1665061 |
| Radio control for BioClean system | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | 1665060 | 1665060 | 1665060 | 1665060 |



Precision room temperature controller RR-21

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22

For the surface mounting and control of the essential unit functions.



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Flange connection, air inlet/outlet

For connection with on-site duct components.



Canvas connecting adapter, air inlet

Elastic connecting piece for structure-borne sound installation.



Canvas connecting adapter, air outlet

Elastic connecting piece for structure-borne sound installation.



Duct elbow, air inlet

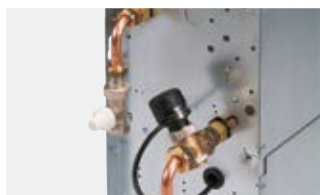
For air inlet, 90°.



Duct elbow, air outlet

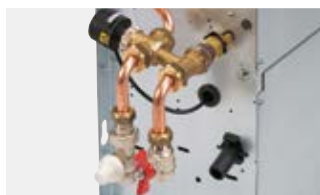
For air outlet, 90°.

| KWK 305 ZW | KWK 355 ZW | KWK 455 ZW | KWK 535 ZW | KWK 595 ZW | KWK 725 ZW |
|------------|------------|------------|------------|------------|------------|
| 1664340 | 1664350 | 1664360 | 1664370 | 1664380 | 1664390 |
| | | | | | |
| 1611396 | 1611396 | 1611396 | 1611396 | 1611396 | 1611396 |
| 1611397 | 1611397 | 1611397 | 1611397 | 1611397 | 1611397 |
| 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| 1661105 | 1661105 | 1661105 | 1661105 | 1661105 | 1661105 |
| | | | | | |
| 1665025 | 1665025 | 1665025 | 1665025 | 1665025 | 1665025 |
| 1665015 | 1665015 | 1665015 | 1665015 | 1665015 | 1665015 |
| | | | | | |
| 1665045 | 1665045 | 1665045 | 1665045 | 1665045 | 1665045 |
| 1665035 | 1665035 | 1665035 | 1665035 | 1665035 | 1665035 |
| | | | | | |
| 1665102 | 1665102 | 1665103 | 1665103 | 1665104 | 1665104 |
| 1665107 | 1665107 | 1665108 | 1665108 | 1665109 | 1665109 |
| 1665112 | 1665112 | 1665113 | 1665113 | 1665114 | 1665114 |
| 1665117 | 1665117 | 1665118 | 1665118 | 1665119 | 1665119 |
| 1665142 | 1665142 | 1665143 | 1665143 | 1665144 | 1665144 |
| 1665147 | 1665147 | 1665148 | 1665148 | 1665149 | 1665149 |
| 1665167 | 1665167 | 1665168 | 1665168 | 1665169 | 1665169 |
| 1665152 | 1665152 | 1665153 | 1665153 | 1665154 | 1665154 |
| 1665157 | 1665157 | 1665158 | 1665158 | 1665159 | 1665159 |
| 1665162 | 1665162 | 1665163 | 1665163 | 1665164 | 1665164 |
| 1665172 | 1665172 | 1665173 | 1665173 | 1665174 | 1665174 |
| 1665182 | 1665182 | 1665183 | 1665183 | 1665184 | 1665184 |
| 1665187 | 1665187 | 1665188 | 1665188 | 1665189 | 1665189 |
| 1665192 | 1665192 | 1665193 | 1665193 | 1665194 | 1665194 |
| 1665197 | 1665197 | 1665198 | 1665198 | 1665199 | 1665199 |
| | | | | | |
| 1665051 | 1665051 | 1665051 | 1665051 | 1665051 | 1665051 |
| 1665125 | 1665125 | 1665125 | 1665125 | 1665125 | 1665125 |
| 1665126 | 1665126 | 1665126 | 1665126 | 1665126 | 1665126 |
| 1665127 | 1665127 | 1665127 | 1665127 | 1665127 | 1665127 |
| 1665128 | 1665128 | 1665128 | 1665128 | 1665128 | 1665128 |
| 1665177 | 1665177 | 1665178 | 1665178 | 1665179 | 1665179 |
| 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |
| 1665061 | 1665061 | 1665061 | 1665061 | 1665061 | 1665061 |
| 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |



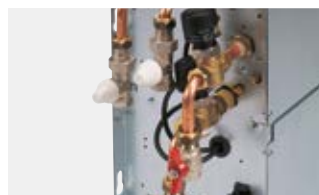
**Two-way valve assemblies,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



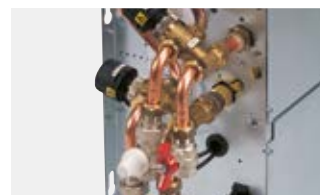
**Three-way valve assembly,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



**Two-way valve assemblies,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



**Three-way valve assembly,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



Air inlet/outlet grille

Made of plastic with stationary fins.



Condensate pump, horizontal

For draining the condensate that occurs.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean S

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO KWK EC (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan



KWK DM series



REMKO KWK EC (DM) SERIES

The wall and ceiling chests are characterised by a discreet design

The wall and ceiling chests can be used for both vertical installation on the wall or for horizontal installation under the ceiling. They are extremely well-suited for installation in offices and meeting rooms, banks, business and in private residences.

Thanks to the modern, energy-efficient EC motor, the installed fan is infinitely variable. This increases the user's comfort.

REMKO wall or ceiling chests are equipped with the latest technology and offer exceptional flexibility in terms of installation. The medium connections are fitted as standard in the housing on the left-hand side. The controller can optionally be mounted right on the device or on a wall. It is possible for the connections and controls to exchange sides. The standard colour of the elegant housing is white, and the outlet grille is finished in white plastic. The air passes through a reclaimable filter in the unit. An extremely low-noise three-stage tangential fan provides impeccable air distribution and maximises vent output. The copper-aluminium register is designed for medium temperatures of up to 80°C. The unit can easily be upgraded to a 4-pipe system through the installation of a heating register.

- The ideal solution for optically discreet air conditioning
- Quiet operation
- Simple equipping of the unit in a 4-pipe design
- For horizontal and vertical installation
- Infinitely variable EC fans



KWK series

Technical data

| Unit type | |
|---|---------|
| Cooling capacity ^{1) 2)} | kW |
| Heating capacity ^{1) 3)} | kW |
| Air flow rate per speed setting | m³/h |
| Sound pressure level per speed setting ⁴⁾ | dB(A) |
| Voltage supply | V/Ph/Hz |
| Rated power consumption ¹⁾ | W |
| Rated current consumption ¹⁾ | A |
| Operating medium | |
| Max. operating pressure | kPa |
| Medium connectors - cooling register | Inch |
| Rated flow volume, medium K ²⁾ /H ³⁾ | m³/h |
| Rated pressure drops, medium K ²⁾ /H ³⁾ | kPa |
| Medium volume | L |
| Dimensions - height | mm |
| Dimensions - width | mm |
| Dimensions - depth | mm |
| Serial colour | |
| Weight of KWK EC | kg |
| Weight of KWK EC DM | kg |
| KWK EC chest unit for wall/upright installation | |
| Ref. no. | |
| KWK EC DM chest unit for ceiling installation | |
| Ref. no. | |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27 °C, FK 19 °C; medium inlet 7 °C, medium outlet 12 °C

³⁾ Room temperature TK 20 °C, FK 14 °C; medium inlet 45 °C, medium outlet 40 °C

⁴⁾ Measured in 100 m³ room with a reverberation period of 0.3 seconds, distance 1.0 m



| KWK 135 EC (DM) | KWK 175 EC (DM) | KWK 225 EC (DM) | KWK 265 EC (DM) | KWK 345 EC (DM) | KWK 395 EC (DM) | KWK 525 EC (DM) | KWK 605 EC (DM) | KWK 735 EC (DM) | KWK 875 EC (DM) |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1.31 | 1.75 | 2.18 | 2.60 | 3.43 | 3.89 | 5.22 | 6.06 | 7.34 | 8.78 |
| 1.63 | 2.06 | 2.58 | 2.95 | 3.81 | 4.30 | 5.69 | 6.44 | 7.76 | 9.16 |
| 84-298 | 98-321 | 133-394 | 147-432 | 196-580 | 217-623 | 320-882 | 344-924 | 378-1205 | 405-1232 |
| 19-38 | 19-38 | 20-42 | 20-42 | 21-38 | 21-38 | 18-46 | 18-46 | 20-52 | 20-52 |
| 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| 31 | 33 | 35 | 36 | 35 | 36 | 58 | 61 | 77 | 82 |
| 0.13 | 0.14 | 0.15 | 0.16 | 0.15 | 0.16 | 0.25 | 0.27 | 0.33 | 0.36 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | | | |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 0.23/0.28 | 0.30/0.35 | 0.37/0.44 | 0.45/0.51 | 0.59/0.65 | 0.67/0.74 | 0.90/0.98 | 1.04/1.11 | 1.26/1.33 | 1.51/1.57 |
| 14.4/18.0 | 17.1/20.2 | 18.3/21.7 | 19.4/22.1 | 26.8/29.8 | 27.5/30.4 | 25.7/28.0 | 27.6/29.4 | 27.7/29.3 | 27.8/29.0 |
| 0.7 | 0.7 | 1.0 | 1.0 | 1.4 | 1.4 | 1.7 | 1.7 | 2.0 | 2.0 |
| 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 | 477 |
| 670 | 670 | 870 | 870 | 1070 | 1070 | 1270 | 1270 | 1470 | 1470 |
| 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| similar to RAL 9010 | | | | | | | | | |
| 13.8 | 14.3 | 16.7 | 17.5 | 22.8 | 23.8 | 26.3 | 27.8 | 30.3 | 31.8 |
| 15.0 | 15.5 | 18.3 | 19.1 | 24.8 | 25.8 | 28.7 | 30.2 | 33.1 | 34.6 |
| 1664400 | 1664410 | 1664420 | 1664430 | 1664440 | 1664450 | 1664460 | 1664470 | 1664480 | 1664490 |
| 1664500 | 1664510 | 1664520 | 1664530 | 1664540 | 1664550 | 1664560 | 1664570 | 1664580 | 1664590 |

REMKO KWK EC (DM) SERIES

Wall and ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan

Wall/ceiling chests

| Unit type | KWK 135 EC (DM) | KWK 175 EC (DM) | KWK 225 EC (DM) | KWK 265 EC (DM) |
|---|-----------------|-----------------|-----------------|-----------------|
| KWK EC chest unit for wall/upright installation | 1664400 | 1664410 | 1664420 | 1664430 |
| KWK EC DM chest unit for ceiling installation | 1664500 | 1664510 | 1664520 | 1664530 |

Accessories

| Regulation | | | | |
|--|-----------|-----------|-----------|-----------|
| Built-in controller RR-21.2E | 1665004 | 1665004 | 1665004 | 1665004 |
| Precision room temperature controller RR-21.2 | 1611401 | 1611401 | 1611401 | 1611401 |
| Room temperature controller RR-22.2 | 1611403 | 1611403 | 1611403 | 1611403 |
| Room temperature sensor for RR-21.2 and RR-22.2 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor for RR-21.2 and RR-22.2 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| Valve assemblies, 2-pipe system | | | | |
| Two-way, vert. Wall installation | 1665020 | 1665020 | 1665020 | 1665020 |
| Two-way, horiz. Ceiling installation (KWK EC DM) | 1665025 | 1665025 | 1665025 | 1665025 |
| Three-way, vert. Wall installation | 1665010 | 1665010 | 1665010 | 1665010 |
| Three-way, horiz. Ceiling installation (KWK EC DM) | 1665015 | 1665015 | 1665015 | 1665015 |
| Valve assemblies, 4-pipe system | | | | |
| Two-way, vert. Wall installation | 1665040 | 1665040 | 1665040 | 1665040 |
| Two-way, horiz. Ceiling installation (KWK EC DM) | 1665045 | 1665045 | 1665045 | 1665045 |
| Three-way, vert. Wall installation | 1665030 | 1665030 | 1665030 | 1665030 |
| Three-way, horiz. Ceiling installation (KWK EC DM) | 1665035 | 1665035 | 1665035 | 1665035 |
| Other accessories | | | | |
| Condensate pump, vertical | 1665050 | 1665050 | 1665050 | 1665050 |
| Condensate pump, horizontal (KWK EC DM) | 1665051 | 1665051 | 1665051 | 1665051 |
| Air inlet socket | 1665130 | 1665130 | 1665131 | 1665131 |
| Stand support | 1665120 | 1665120 | 1665120 | 1665120 |
| Connecting line, flexible, 100 mm, 2-pipe | 1665125 | 1665125 | 1665125 | 1665125 |
| Connecting line, flexible, 200 mm, 2-pipe | 1665126 | 1665126 | 1665126 | 1665126 |
| Connecting line, flexible, 100 mm, 4-pipe | 1665127 | 1665127 | 1665127 | 1665127 |
| Connecting line, flexible, 200 mm, 4-pipe | 1665128 | 1665128 | 1665128 | 1665128 |
| Heating register, 4-pipe system | 1665175 | 1665175 | 1665176 | 1665176 |
| Fault message module SB-1 | 1611506 | 1611506 | 1611506 | 1611506 |
| BioClean system, installed | 1665061 | 1665061 | 1665061 | 1665061 |
| Radio control for BioClean system | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | 1665060 | 1665060 | 1665060 | 1665060 |



Built-in controller RR-21.2E

Built-in, parametrisable controller with various additional functions.



Precision room temperature controller RR-21.2

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22.2

For the surface mounting and control of the essential unit functions.



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Air inlet socket

With air inlet grid for the optical disguising of the air inlet area.



Stand support

For mounting to the bottom of the unit when erecting the unit on the floor.



Connecting line, flexible

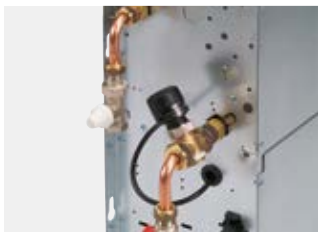
Extendable stainless steel corrugated tube in flat-sealing design for flexible connection of the indoor units.



Fault message module SB-1

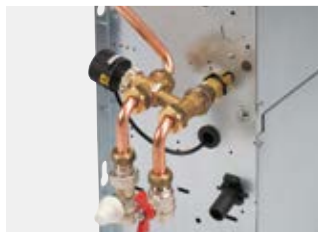
With potential-free contact for the display of fault messages in cooling operation.

| KWK 345 EC (DM) | KWK 395 EC (DM) | KWK 525 EC (DM) | KWK 605 EC (DM) | KWK 735 EC (DM) | KWK 875 EC (DM) |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1664440 | 1664450 | 1664460 | 1664470 | 1664480 | 1664490 |
| 1664540 | 1664550 | 1664560 | 1664570 | 1664580 | 1664590 |
| 1665004 | 1665004 | 1665004 | 1665004 | 1665004 | 1665004 |
| 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 |
| 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 |
| 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| 1665020 | 1665020 | 1665020 | 1665020 | 1665020 | 1665020 |
| 1665025 | 1665025 | 1665025 | 1665025 | 1665025 | 1665025 |
| 1665010 | 1665010 | 1665010 | 1665010 | 1665010 | 1665010 |
| 1665015 | 1665015 | 1665015 | 1665015 | 1665015 | 1665015 |
| 1665040 | 1665040 | 1665040 | 1665040 | 1665040 | 1665040 |
| 1665045 | 1665045 | 1665045 | 1665045 | 1665045 | 1665045 |
| 1665030 | 1665030 | 1665030 | 1665030 | 1665030 | 1665030 |
| 1665035 | 1665035 | 1665035 | 1665035 | 1665035 | 1665035 |
| 1665050 | 1665050 | 1665050 | 1665050 | 1665050 | 1665050 |
| 1665051 | 1665051 | 1665051 | 1665051 | 1665051 | 1665051 |
| 1665132 | 1665132 | 1665133 | 1665133 | 1665134 | 1665134 |
| 1665120 | 1665120 | 1665120 | 1665120 | 1665120 | 1665120 |
| 1665125 | 1665125 | 1665125 | 1665125 | 1665125 | 1665125 |
| 1665126 | 1665126 | 1665126 | 1665126 | 1665126 | 1665126 |
| 1665127 | 1665127 | 1665127 | 1665127 | 1665127 | 1665127 |
| 1665128 | 1665128 | 1665128 | 1665128 | 1665128 | 1665128 |
| 1665177 | 1665177 | 1665178 | 1665178 | 1665179 | 1665179 |
| 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |
| 1665061 | 1665061 | 1665061 | 1665061 | 1665061 | 1665061 |
| 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |



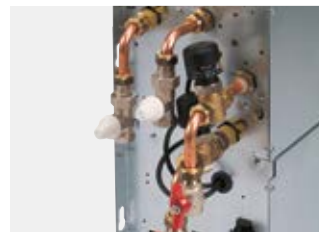
**Two-way valve assemblies,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



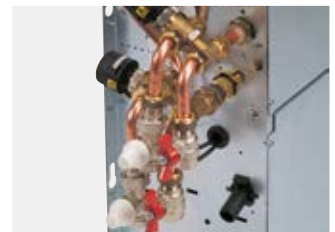
**Three-way valve assembly,
2-pipe system**

For controlling the medium volume flow rate in cooling or heating mode.



**Two-way valve assemblies,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



**Three-way valve assembly,
4-pipe system**

For controlling the medium volume flow rate in cooling and heating mode.



Condensate pump, vertical

Built-in condensate pump for dispersing the condensate in case of units for wall/upright installation.



Condensate pump, horizontal

Built-in condensate pump for dispersing the condensate in case of units for wall installation.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean S

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO KWK EC ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan for installation into false ceilings



REMKO KWK EC ZW SERIES

Ceiling chests for niche installation

The optimum, invisible solution for offices, banks or hotels because of its small installation height. Thanks to the modern, energy-efficient EC motor, the installed fan is infinitely variable. This increases the user's comfort.

The rectangular device air outlet is designed to accommodate adjustable air outlet grilles for an individual distribution of air. The air is filtered in the unit's air intake with a reclaimable plug-in filter. The internal tangential fan allows multiple airflow settings. The diagonally fitted copper-aluminium heat exchanger is designed for cooling medium temperatures of up to 80°C. The unit can easily be upgraded to a 4-pipe system through the installation of a heating register. The register connections can be mounted on either side of the unit in a condensate-insulated housing. A valve assembly for 2- and 4-pipe systems are available as accessories for cooling control.

- Invisible mounting in intermediate spaces
- Low installation height
- Can be positioned flexibly
- Minimum weight
- User-friendly control
- Quiet operation
- Particularly narrow dimensions
- Simple equipping of the unit in a 4-pipe design
- For horizontal installation arrangement
- Infinitely variable EC fans



Technical data

| Unit type | |
|---|---------|
| Cooling capacity ^{1) 2)} | kW |
| Heating capacity ^{1) 3)} | kW |
| Air flow rate per speed setting | m³/h |
| Sound pressure level per speed setting ⁴⁾ | dB(A) |
| Voltage supply | V/Ph/Hz |
| Rated power consumption ¹⁾ | W |
| Rated current consumption ¹⁾ | A |
| Operating medium | |
| Max. operating pressure | kPa |
| Medium connectors - cooling register | Inch |
| Rated flow volume, medium K ²⁾ /H ³⁾ | m³/h |
| Rated pressure drops, medium K ²⁾ /H ³⁾ | kPa |
| Medium volume | L |
| Dimensions - height | mm |
| Dimensions - width | mm |
| Dimensions - depth | mm |
| Weight | kg |
| Ref. no. | |

¹⁾ Rated volume flow rate of medium; 0% glycol concentration; max. air volume flow rate

²⁾ Room temperature TK 27 °C, FK 19 °C; medium inlet 7 °C, medium outlet 12 °C

³⁾ Room temperature TK 20 °C, FK 14 °C; medium inlet 45 °C, medium outlet 40 °C

⁴⁾ Measured in 100 m³ room with a reverberation period of 0.3 seconds, distance 1.0 m



| KWK 135 EC | KWK 175 EC | KWK 225 EC | KWK 265 EC | KWK 345 EC | KWK 395 EC | KWK 525 EC | KWK 605 EC | KWK 735 EC | KWK 875 EC |
|--|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| ZW | ZW | ZW | ZW | ZW | ZW | ZW | ZW | ZW | ZW |
| 1.31 | 1.75 | 2.18 | 2.60 | 3.43 | 3.89 | 5.22 | 6.06 | 7.34 | 8.78 |
| 1.63 | 2.06 | 2.58 | 2.95 | 3.81 | 4.30 | 5.69 | 6.44 | 7.76 | 9.16 |
| 84-298 | 98-321 | 133-394 | 147-432 | 196-580 | 217-623 | 320-882 | 344-924 | 378-1205 | 405-1232 |
| 19-38 | 19-38 | 20-42 | 20-42 | 21-38 | 21-38 | 18-46 | 18-46 | 20-52 | 20-52 |
| 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| 31 | 33 | 35 | 36 | 35 | 36 | 58 | 61 | 77 | 82 |
| 0.13 | 0.14 | 0.15 | 0.16 | 0.15 | 0.16 | 0.25 | 0.27 | 0.33 | 0.36 |
| Water; max. 35% ethylene glycol; max. 35% propylene glycol | | | | | | | | | |
| 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| 0.23/0.28 | 0.30/0.35 | 0.37/0.44 | 0.45/0.51 | 0.59/0.65 | 0.67/0.74 | 0.90/0.98 | 1.04/1.11 | 1.26/1.33 | 1.51/1.57 |
| 14.4/18.0 | 17.1/20.2 | 18.3/21.7 | 19.4/22.1 | 26.8/29.8 | 27.5/30.4 | 25.7/28.0 | 27.6/29.4 | 27.7/29.3 | 27.8/29.0 |
| 0.7 | 0.7 | 1.0 | 1.0 | 1.4 | 1.4 | 1.7 | 1.7 | 2.0 | 2.0 |
| 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 | 215 |
| 545 | 545 | 745 | 745 | 945 | 945 | 1145 | 1145 | 1345 | 1345 |
| 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 | 450 |
| 11.4 | 11.9 | 14.2 | 15.0 | 20.2 | 21.2 | 23.6 | 25.1 | 27.5 | 29.0 |
| 1664600 | 1664610 | 1664620 | 1664630 | 1664640 | 1664650 | 1664660 | 1664670 | 1664680 | 1664690 |

REMKO KWK EC ZW SERIES

Ceiling chests in 2-pipe or 4-pipe design with infinitely variable EC fan for installation into false ceilings

Ceiling chests

| Unit type | KWK 135 EC ZW | KWK 175 EC ZW | KWK 225 EC ZW | KWK 265 EC ZW |
|----------------------------|---------------|---------------|---------------|---------------|
| In 2-pipe or 4-pipe design | 1664600 | 1664610 | 1664620 | 1664630 |

Accessories

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Regulation | | | | |
| Precision room temperature controller RR-21.2 | 1611401 | 1611401 | 1611401 | 1611401 |
| Room temperature controller RR-22.2 | 1611403 | 1611403 | 1611403 | 1611403 |
| Room temperature sensor for RR-21.2 and RR-22.2 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| Flow temperature sensor for RR-21.2 and RR-22.2 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| Valve assemblies, 2-pipe system | | | | |
| Two-way, horiz. Ceiling installation | 1665025 | 1665025 | 1665025 | 1665025 |
| Three-way, horiz. Ceiling installation | 1665015 | 1665015 | 1665015 | 1665015 |
| Valve assemblies, 4-pipe system | | | | |
| Two-way, horiz. Ceiling installation | 1665045 | 1665045 | 1665045 | 1665045 |
| Three-way, horiz. Ceiling installation | 1665035 | 1665035 | 1665035 | 1665035 |
| Duct connection | | | | |
| Canvas connecting adapter, air inlet | 1665100 | 1665100 | 1665101 | 1665101 |
| Canvas connecting adapter, air outlet | 1665105 | 1665105 | 1665106 | 1665106 |
| Duct elbow, air inlet | 1665110 | 1665110 | 1665111 | 1665111 |
| Duct elbow, air outlet | 1665115 | 1665115 | 1665116 | 1665116 |
| Flange connection, air inlet | 1665140 | 1665140 | 1665141 | 1665141 |
| Flange connection, air outlet | 1665145 | 1665145 | 1665146 | 1665146 |
| Duct piece, 100 mm, air inlet | 1665165 | 1665165 | 1665166 | 1665166 |
| Duct piece, 100 mm, air outlet | 1665150 | 1665150 | 1665151 | 1665151 |
| Duct piece, 200 mm, air outlet | 1665155 | 1665155 | 1665156 | 1665156 |
| Duct piece, 500 mm, air outlet | 1665160 | 1665160 | 1665161 | 1665161 |
| Telescopic piece | 1665170 | 1665170 | 1665171 | 1665171 |
| Air inlet grille, including filter, plastic | 1665180 | 1665180 | 1665181 | 1665181 |
| Air outlet grille, plastic | 1665185 | 1665185 | 1665186 | 1665186 |
| Air inlet grille, including filter, stainless steel | 1665190 | 1665190 | 1665191 | 1665191 |
| Air outlet grille, stainless steel | 1665195 | 1665195 | 1665196 | 1665196 |
| Other accessories | | | | |
| Condensate pump, horizontal | 1665051 | 1665051 | 1665051 | 1665051 |
| Connecting line, flexible, 100 mm, 2-pipe system | 1665125 | 1665125 | 1665125 | 1665125 |
| Connecting line, flexible, 200 mm, 2-pipe system | 1665126 | 1665126 | 1665126 | 1665126 |
| Connecting line, flexible, 100 mm, 4-pipe system | 1665127 | 1665127 | 1665127 | 1665127 |
| Connecting line, flexible, 200 mm, 4-pipe system | 1665128 | 1665128 | 1665128 | 1665128 |
| Heating register, 4-pipe system | 1665175 | 1665175 | 1665176 | 1665176 |
| Fault message module SB-1 | 1611506 | 1611506 | 1611506 | 1611506 |
| BioClean system, installed | 1665061 | 1665061 | 1665061 | 1665061 |
| Radio control for BioClean system | 1665063 | 1665063 | 1665063 | 1665063 |
| Quartz capacitor for BioClean system | 1665060 | 1665060 | 1665060 | 1665060 |



Precision room temperature controller RR-21.2

Parametrisable regulation for surface mounting with various additional functions.



Room temperature controller RR-22.2

For the surface mounting and control of the essential unit functions.



Switching relay SR-1

For the operation and control of a maximum of four indoor units using a room temperature controller in a group control.



Flange connection, air inlet/air outlet

For connection with on-site duct components.



Canvas connecting adapter, air inlet

Elastic connecting piece for structure-borne sound installation.



Canvas connecting adapter, air outlet

Elastic connecting piece for structure-borne sound installation.



Duct elbow, air inlet

For air inlet, 90°.



Duct elbow, air outlet

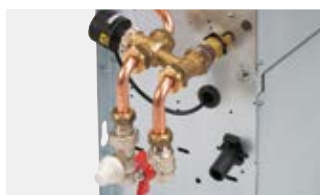
For air outlet, 90°.

| KWK 345 EC ZW | KWK 395 EC ZW | KWK 525 EC ZW | KWK 605 EC ZW | KWK 735 EC ZW | KWK 875 EC ZW |
|---------------|---------------|---------------|---------------|---------------|---------------|
| 1664640 | 1664650 | 1664660 | 1664670 | 1664680 | 1664690 |
| | | | | | |
| 1611401 | 1611401 | 1611401 | 1611401 | 1611401 | 1611401 |
| 1611403 | 1611403 | 1611403 | 1611403 | 1611403 | 1611403 |
| 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 | 1611380-1 |
| 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 | 1611381-1 |
| | | | | | |
| 1665025 | 1665025 | 1665025 | 1665025 | 1665025 | 1665025 |
| 1665015 | 1665015 | 1665015 | 1665015 | 1665015 | 1665015 |
| | | | | | |
| 1665045 | 1665045 | 1665045 | 1665045 | 1665045 | 1665045 |
| 1665035 | 1665035 | 1665035 | 1665035 | 1665035 | 1665035 |
| | | | | | |
| 1665102 | 1665102 | 1665103 | 1665103 | 1665104 | 1665104 |
| 1665107 | 1665107 | 1665108 | 1665108 | 1665109 | 1665109 |
| 1665112 | 1665112 | 1665113 | 1665113 | 1665114 | 1665114 |
| 1665117 | 1665117 | 1665118 | 1665118 | 1665119 | 1665119 |
| 1665142 | 1665142 | 1665143 | 1665143 | 1665144 | 1665144 |
| 1665147 | 1665147 | 1665148 | 1665148 | 1665149 | 1665149 |
| 1665167 | 1665167 | 1665168 | 1665168 | 1665169 | 1665169 |
| 1665152 | 1665152 | 1665153 | 1665153 | 1665154 | 1665154 |
| 1665157 | 1665157 | 1665158 | 1665158 | 1665159 | 1665159 |
| 1665162 | 1665162 | 1665163 | 1665163 | 1665164 | 1665164 |
| 1665172 | 1665172 | 1665173 | 1665173 | 1665174 | 1665174 |
| 1665182 | 1665182 | 1665183 | 1665183 | 1665184 | 1665184 |
| 1665187 | 1665187 | 1665188 | 1665188 | 1665189 | 1665189 |
| 1665192 | 1665192 | 1665193 | 1665193 | 1665194 | 1665194 |
| 1665197 | 1665197 | 1665198 | 1665198 | 1665199 | 1665199 |
| | | | | | |
| 1665051 | 1665051 | 1665051 | 1665051 | 1665051 | 1665051 |
| 1665125 | 1665125 | 1665125 | 1665125 | 1665125 | 1665125 |
| 1665126 | 1665126 | 1665126 | 1665126 | 1665126 | 1665126 |
| 1665127 | 1665127 | 1665127 | 1665127 | 1665127 | 1665127 |
| 1665128 | 1665128 | 1665128 | 1665128 | 1665128 | 1665128 |
| 1665177 | 1665177 | 1665178 | 1665178 | 1665179 | 1665179 |
| 1611506 | 1611506 | 1611506 | 1611506 | 1611506 | 1611506 |
| 1665061 | 1665061 | 1665061 | 1665061 | 1665061 | 1665061 |
| 1665063 | 1665063 | 1665063 | 1665063 | 1665063 | 1665063 |
| 1665060 | 1665060 | 1665060 | 1665060 | 1665060 | 1665060 |



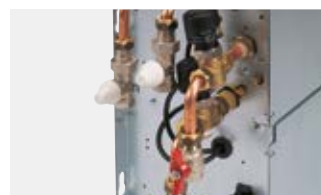
Two-way valve assemblies, 2-pipe system

For controlling the medium volume flow rate in cooling or heating mode.



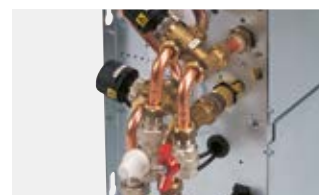
Three-way valve assembly, 2-pipe system

For controlling the medium volume flow rate in cooling or heating mode.



Two-way valve assemblies, 4-pipe system

For controlling the medium volume flow rate in cooling and heating mode.



Three-way valve assembly, 4-pipe system

For controlling the medium volume flow rate in cooling and heating mode.



Air inlet/outlet grille

Made of plastic with stationary fins.



Condensate pump, horizontal

For draining the condensate that occurs.



BioClean system, installed

For natural disinfection of the unit and removal of allergens, germs, bacteria and viruses.



Radio control for BioClean S

For switching the BioClean system on and off by means of a surface-mounted radio switch.

REMKO PWL HK SERIES

Ceiling cassettes for cooling and heating



REMKO PWL HK SERIES

Modern technology in an attractive design

The possibility of altering the rotation of the fans allows optimal air distribution in both low-ceilinged and high-ceilinged rooms. In addition, this technology is ideal for always achieving the perfect outlet layout for heating and cooling operations. Ease of service and a simple, uncomplicated assembly are the characteristic features of these units. The elegant plastic housing can easily be removed from its bearing elements thanks to the rapid release couplings. The units are fitted as standard with a high-performance condensate pump.

- Quiet operation
- Installation-friendly design
- Service friendliness
- Universal use
- Self-extinguishing plastic housing, fire class V-0



Planning aids

Extensive planning aids can be found under:
www.remko.de/planung/pwl.pdf

Technical data

| Unit type | | PWL 101 HK | | PWL 102 HK | | PWL 103 HK | |
|--|---------|------------|-----------|------------|-----------|------------|-----------|
| Max. cooling capacity at 7/12 °C and air inlet temperature 32 °C | kW | 4.7 | | 7.7 | | 10.8 | |
| PKW coolant | °C | 7/12 | 11/16 | 7/12 | 11/16 | 7/12 | 11/16 |
| Cooling capacity per speed stage | kW | 4.7/4.2 | 3.3/2.9 | 7.7/6.8 | 5.2/4.7 | 10.8/9.4 | 7.6/6.6 |
| At air intake temperature | tLE °C | 32 | 32 | 32 | 32 | 32 | 32 |
| At air outlet temperature | tLA °C | 26/25 | 27/27 | 22/21 | 24/23 | 18/18 | 21/20 |
| Air volume per level | m³/h | 2030/1685 | 2030/1685 | 1960/1610 | 1960/1610 | 1885/1530 | 1885/1530 |
| Sound pressure level per speed setting ¹⁾ | dB(A) | 56/47 | 56/47 | 56/47 | 56/47 | 56/47 | 56/47 |
| Medium connectors | Inch | 1 | 1 | 1 | 1 | 1 | 1 |
| Voltage supply | V/Ph/Hz | 400/3~N/50 | | 400/3~N/50 | | 400/3~N/50 | |
| Weight | kg | 31 | | 35 | | 38 | |
| Ref. no. | | 1688101 | | 1688102 | | 1688103 | |

¹⁾ Distance of 1 m in open air Note: The heating capacity of the PWL HK units is identical to that of units in the PWL H series. From page 214.

Accessories

| Unit type | PWL 101 HK | PWL 102 HK | PWL 103 HK |
|--------------------------------------|------------|------------|------------|
| Electronic temperature control ATR-7 | 1011292 | 1011292 | 1011292 |
| Moisture-proof room thermostat RTK-1 | 1011242 | 1011242 | 1011242 |
| Temperature probe set | 1011343 | 1011343 | 1011343 |

Accessories

| Unit type | PWL 101 HK | PWL 102 HK | PWL 103 HK |
|--------------------------|------------|------------|------------|
| Motor terminal box AKG-5 | 385303 | 385303 | 385303 |
| Switchgear SW2-PU 4.0 | 385201 | 385201 | 385201 |
| Frequency converter | 1687405 | 1687405 | 1687405 |



**Elect. Temperature control
ATR-7**

For surface installation with
temperature probe, type of
protection IP 54



**Moisture-proof room
thermostat RTK-1**

For cooling operation without
connection accessories, type of
protection IP 54



Motor terminal box AKG-5

For the parallel operation of up
to five units, including thermal
contacts.



Switchgear SW2-PU 4.0

2-speed, 400 V, with integrated
pole changeover switch.

| PWL 201 HK | | PWL 202 HK | | PWL 203 HK | | PWL 301 HK | | PWL 302 HK | | PWL 303 HK | |
|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| 5.0 | | 10.7 | | 14.5 | | 6.5 | | 10.6 | | 18.8 | |
| 7/12 | 11/16 | 7/12 | 11/16 | 7/12 | 11/16 | 7/12 | 11/16 | 7/12 | 11/16 | 7/12 | 11/16 |
| 5.0/4.5 | 3.9/3.5 | 10.7/9.6 | 7.4/6.6 | 14.5/12.8 | 10.1/8.8 | 6.5/5.1 | 5.1/3.9 | 10.6/8.0 | 8.3/5.9 | 18.8/10.9 | 13.2/7.7 |
| 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 27/27 | 28/28 | 22/22 | 24/24 | 20/19 | 22/21 | 27/26 | 28/28 | 24/23 | 26/24 | 20/17 | 22/20 |
| 3110/2580 | 3110/2580 | 2900/2400 | 2900/2400 | 2850/2350 | 2850/2350 | 4300/2650 | 4300/2650 | 4150/2400 | 4150/2400 | 3900/1710 | 3900/1710 |
| 61/53 | 61/53 | 61/56 | 61/56 | 61/56 | 61/56 | 66/59 | 66/59 | 66/59 | 66/59 | 68/61 | 68/61 |
| 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 400/3~N/50 | | 400/3~N/50 | | 400/3~N/50 | | 400/3~N/50 | | 400/3~N/50 | | 400/3~N/50 | |
| 32 | | 35 | | 38 | | 43 | | 46 | | 48 | |
| 1688201 | | 1688202 | | 1688203 | | 1688301 | | 1688302 | | 1688303 | |

| PWL 201 HK | PWL 202 HK | PWL 203 HK | PWL 301 HK | PWL 302 HK | PWL 303 HK |
|------------|------------|------------|------------|------------|------------|
| 1011292 | 1011292 | 1011292 | 1011292 | 1011292 | 1011292 |
| 1011242 | 1011242 | 1011242 | 1011242 | 1011242 | 1011242 |
| 1011343 | 1011343 | 1011343 | 1011343 | 1011343 | 1011343 |

| PWL 201 HK | PWL 202 HK | PWL 203 HK | PWL 301 HK | PWL 302 HK | PWL 303 HK |
|------------|------------|------------|------------|------------|------------|
| 385303 | 385303 | 385303 | 385303 | 385303 | 385303 |
| 385201 | 385201 | 385201 | 385201 | 385201 | 385201 |
| 1687405 | 1687405 | 1687405 | 1687405 | 1687405 | 1687405 |

REMKO PWN HK SERIES

Hot water heaters in low-temperature design with EC fan for heating and cooling



REMKO PWN HK SERIES

The efficient heating system for warehouses and supermarkets

The PWN HK hot water heaters are optimally suited for use in commercial applications due to their high-quality, robust plastic housing. Through the universal colouring of the devices, they fit in discreetly in almost every environment.

Thanks to the modern, energy-efficient EC motors, the user obtains not only energy savings in comparison with conventional AC motors, but also a considerably increased regulating comfort as the fan can be adapted variably to the operating conditions as required. Individually adjustable air control fins guarantee a precise adaptation of the air flow and reduce the flow resistance to a minimum. The interaction of housing design, fan selection and heat exchanger dimensioning ensure an even flow-through of the fin heat exchanger and therefore an optimum utilisation of the heat exchanger surface for the transmission of power.

A sophisticated mounting system guarantees that, in addition to the wall or ceiling mounting, a mounting inclined by 30° is also possible. The mounting bar on the device itself can continue to be inclined by up to 70°, therefore enabling an adaptation of the device alignment to the most difficult mounting conditions. The brackets are included in the scope of supply of the standard version. An condensate drip pan included in delivery enables an operation of the device even in cooling mode in case of wall mounting, therefore forming the ideal addition for securing the comfort zone.

- High-quality plastic housing for industrial applications
- Discreet design
- Modern, efficient EC technology
- Versatile mounting possibilities using series-standard bracket
- Cooling optionally possible in case of wall mounting
- Including built-in condensate drip pan

Accessories

- Room temperature controller
- Air control fins, vertical



Room temperature controller
RR 21.2



Pivotable 3D mounting system
for optimum air distribution



Technical data

| Unit type | | PWN 35-1 HK | PWN 45-2 HK | PWN 75-3 HK | PWN 95-2 HK | PWN 105-3 HK |
|--|---------|-------------|-------------|-------------|-------------|--------------|
| Heating capacity ¹⁾²⁾ | kW | 9.7 / 8.1 | 19.0 / 15.2 | 33.9 / 27.0 | 54.9 / 44.1 | 69.4 / 55.3 |
| Cooling capacity ³⁾ | kW | 2.53 | 4.38 | 7.85 | 14.81 | 16.19 |
| Air flow rate | m³/h | 300 - 2850 | 250 - 2550 | 350 - 3900 | 1270 - 8560 | 715 - 7950 |
| Rated flow rate, heating ¹⁾ | m³/h | 0.43 | 0.83 | 1.49 | 2.41 | 3.05 |
| Rated flow rate, cooling ³⁾ | m³/h | 0.46 | 0.81 | 1.47 | 2.69 | 2.99 |
| Sound pressure level ⁴⁾ | dB(A) | 29.4 - 64.2 | 29.0 - 63.8 | 32.0 - 67.3 | 36.5 - 70.9 | 35.0 - 70.3 |
| Voltage supply | V/Ph/Hz | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 | 230/1~/50 |
| Power consumption ¹⁾ | W | 108 | 111 | 315 | 635 | 635 |
| Current consumption ¹⁾ | A | 0.77 | 0.83 | 2.10 | 4.24 | 4.16 |
| Operating limit temperature | °C | 105 | 105 | 105 | 105 | 105 |
| Maximum operating pressure | bar | 16 | 16 | 16 | 16 | 16 |
| Pressure loss, heating ¹⁾ | kPa | 2.4 | 5.7 | 11.8 | 12.3 | 9.4 |
| Pressure loss, cooling ³⁾ | kPa | 2.8 | 5.5 | 14.5 | 19.2 | 11.5 |
| Maximum blowing range (wall mounting) | m | 15.4 | 13.9 | 21.2 | 23.6 | 22.3 |
| Water volume of registers | l | 1.8 | 2.5 | 3.2 | 5.3 | 6.5 |
| Medium connectors | Inch | 3/4 | 3/4 | 3/4 | 1 | 1 |
| Dimensions - height | mm | 730 | 730 | 730 | 730 | 730 |
| Dimensions - width | mm | 765 | 765 | 765 | 1390 | 1390 |
| Dimensions - depth with mounting bar | mm | 595 | 595 | 595 | 595 | 595 |
| Weight | kg | 20 | 21 | 26 | 38 | 40 |
| Ref. no. | | 1682035 | 1682045 | 1682075 | 1682095 | 1682105 |

¹⁾ Water inlet temp. 70°C, water outlet temp. 50°C, water inlet temp. 15°C, maximum air volume flow rate

²⁾ Water inlet temp. 55°C, water outlet temp. 45°C, water inlet temp. 15°C, maximum air volume flow rate

³⁾ Water inlet temp. 7°C, water outlet temp. 12°C, water inlet temp. 27°C TK, air volume flow rate at 5V

⁴⁾ Measured in a 100 m³ room with a reverberation period of 0.3 seconds, distance of 1.5 m

Accessories

| Unit type | PWN 35-1 HK | PWN 45-2 HK | PWN 75-3 HK | PWN 95-2 HK | PWN 105-3 HK |
|---|-------------|-------------|-------------|-------------|--------------|
| Air control fins, vertical for mounting into the device for the adjustability of the vertical distribution of air. | 1684193 | 1684193 | 1684193 | 1684193 | 1684193 |
| Room temperature controller RR 21.2 for controlling one or more indoor units (max. 50), programmable, electronic controller with summer/winter operation changeover, external start/stop, infinitely variable control of EC fans across 0-10 V and many other features | 1684401 | 1684401 | 1684401 | 1684401 | 1684401 |
| Room temperature controller RR 21.2, Type of protection IP54 | 1611405 | 1611405 | 1611405 | 1611405 | 1611405 |



Planning aids

Extensive planning aids can be found under:
www.remko.de/planung/pwn.pdf

CHILLED WATER PIPE NETWORK

Planning I Quickfinder

The following table serves for the easy selection of the pipe network sizes of copper, plastic and steel pipes.

The basic preconditions for the table are a starting temperature of 7°C, a temperature spread of 5 K, an ambient temperature of 30°C and 70% relative humidity, and a medium control system with 34% ethylene glycol filling.

The precise assessment should be performed by a designated plan-

ning specialist after taking into consideration all of the requirements.

The components and parts to be used in the construction must be planned in the assessment with regard to the design and manufacturer type specifics.

The current provisions of the Energy Saving Regulation must be adhered to during the creation of equipment for cooling and heating.

| Cooling capacity kW | Pipeline length m | Copper pipe | | Plastic pipe | | Steel pipe | | Insulation thick- ness mm | Water content Cu L/m | Ethylene glycol 34% L/m |
|------------------------|----------------------|-------------|-----------|--------------|-----------|------------|-----------|---------------------------------|----------------------------|-------------------------------|
| | | Ø mm | R Pa/m | Ø DN | R Pa/m | Ø DN | R Pa/m | | | |
| 2.5 | 0.....10 | 15 | 750 | 15 | 590 | | | 13.0 | 0.13 | 0.04 |
| | 10.....30 | 18 | 330 | 20 | 180 | | | 13.0 | 0.20 | 0.07 |
| 5.0 | 0.....10 | 22 | 400 | 20 | 450 | | | 13.0 | 0.31 | 0.10 |
| | 10.....30 | 28 | 130 | 25 | 150 | | | 13.5 | 0.50 | 0.17 |
| 7.5 | 0.....10 | 22 | 980 | 20 | 890 | | | 13.0 | 0.31 | 0.10 |
| | 10.....30 | 28 | 280 | 25 | 280 | | | 13.5 | 0.50 | 0.17 |
| 10.0 | 0.....10 | 28 | 790 | 25 | 420 | | | 13.5 | 0.50 | 0.17 |
| | 10.....30 | 35 | 170 | 32 | 190 | | | 14.0 | 0.80 | 0.27 |
| 15.0 | 0.....10 | 28 | 930 | 25 | 850 | 25 | 1060 | 13.5 | 0.50 | 0.17 |
| | 10.....30 | 35 | 310 | 32 | 160 | 32 | 225 | 14.0 | 0.80 | 0.27 |
| 20.0 | 0.....10 | 35 | 550 | 32 | 560 | 32 | 440 | 14.0 | 0.80 | 0.27 |
| | 10.....30 | 42 | 220 | 40 | 160 | 40 | 200 | 14.5 | 1.20 | 0.40 |
| 25.0 | 0.....10 | 35 | 940 | 32 | 840 | 32 | 650 | 14.0 | 0.80 | 0.27 |
| | 10.....30 | 42 | 330 | 40 | 260 | 40 | 305 | 14.5 | 1.20 | 0.40 |
| 30.0 | 0.....10 | 42 | 430 | 40 | 370 | 32 | 930 | 14.5 | 1.20 | 0.40 |
| | 10.....30 | 54 | 120 | 50 | 130 | 40 | 465 | 14.5 | 1.96 | 0.65 |
| 35.0 | 0.....10 | 42 | 610 | 40 | 460 | 32 | 1260 | 14.5 | 1.20 | 0.40 |
| | 10.....30 | 54 | 190 | 50 | 170 | 40 | 600 | 14.5 | 1.96 | 0.65 |
| 40.0 | 0.....10 | 42 | 790 | 40 | 600 | 40 | 800 | 14.5 | 1.20 | 0.40 |
| | 10.....30 | 54 | 240 | 50 | 220 | 50 | 265 | 14.5 | 1.96 | 0.65 |
| 50.0 | 0.....10 | 54 | 420 | 50 | 310 | 40 | 1060 | 14.5 | 1.96 | 0.65 |
| | 10.....30 | 64 | 170 | 60 | 150 | 50 | 375 | 16.0 | 2.83 | 0.94 |
| 60.0 | 0.....10 | 54 | 620 | 60 | 220 | 50 | 535 | 14.5 | 1.96 | 0.65 |
| | 10.....30 | 64 | 240 | 70 | 100 | 65 | 115 | 16.0 | 2.83 | 0.94 |
| 70.0 | 0.....10 | 64 | 300 | 60 | 300 | 65 | 160 | 16.0 | 2.83 | 0.94 |
| | 10.....30 | 76 | 155 | 75 | 110 | 80 | 65 | 16.0 | 4.07 | 1.36 |
| 80.0 | 0.....10 | 64 | 390 | 60 | 370 | 65 | 200 | 16.0 | 2.83 | 0.94 |
| | 10.....30 | 76 | 170 | 75 | 160 | 80 | 85 | 16.0 | 4.07 | 1.36 |
| 90.0 | 0.....10 | 64 | 450 | 75 | 180 | 65 | 320 | 16.0 | 2.83 | 0.94 |
| | 10.....30 | 76 | 20 | 90 | 80 | 80 | 100 | 16.0 | 4.07 | 1.36 |
| 100.0 | 0.....10 | 76 | 250 | 75 | 200 | 80 | 125 | 16.0 | 4.07 | 1.36 |
| | 10.....30 | 89 | 150 | 90 | 90 | 100 | 55 | 16.0 | 5.55 | 1.85 |
| 120.0 | 0.....10 | 76 | 270 | 90 | 110 | 80 | 180 | 16.0 | 4.07 | 1.36 |
| | 10.....30 | 89 | 160 | 100 | 80 | 100 | 60 | 16.0 | 5.55 | 1.85 |
| 140.0 | 0.....10 | 89 | 170 | 90 | 120 | 100 | 70 | 16.0 | 5.55 | 1.85 |
| | 10.....30 | 108 | 70 | 110 | 90 | 125 | 25 | 16.0 | 8.47 | 2.88 |
| 160.0 | 0.....10 | 89 | 240 | | | 100 | 115 | 16.0 | 8.47 | 2.88 |
| | 10.....30 | 108 | 100 | | | 125 | 40 | 19.0 | 13.41 | 4.56 |
| 180.0 | 0.....10 | 89 | 300 | | | 100 | 145 | 16.0 | 8.47 | 2.88 |
| | 10.....30 | 108 | 120 | | | 125 | 50 | 19.0 | 13.41 | 4.56 |
| 200.0 | 0.....10 | 89 | 360 | | | 100 | 170 | 16.0 | 8.47 | 2.88 |
| | 10.....30 | 108 | 145 | | | 125 | 65 | 19.0 | 13.41 | 4.56 |
| 220.0 | 0.....10 | 89 | 420 | | | 100 | 200 | 16.0 | 8.47 | 2.88 |
| | 10.....30 | 108 | 170 | | | 125 | 75 | 19.0 | 13.41 | 4.56 |
| 240.0 | 0.....10 | 89 | 500 | | | 100 | 240 | 16.0 | 8.47 | 2.88 |
| | 10.....30 | 108 | 200 | | | 125 | 85 | 19.0 | 13.41 | 4.56 |
| 260.0 | 0.....10 | | | | | 125 | 90 | 19.0 | 13.41 | 4.56 |
| | 10.....30 | | | | | 150 | 40 | 19.0 | 19.85 | 6.75 |
| 280.0 | 0.....10 | | | | | 125 | 120 | 19.0 | 13.41 | 4.56 |
| | 10.....30 | | | | | 150 | 50 | 19.0 | 19.85 | 6.75 |
| 300.0 | 0.....10 | | | | | 125 | 140 | 19.0 | 13.41 | 4.56 |
| | 10.....30 | | | | | 150 | 60 | 19.0 | 19.85 | 6.75 |



Sample calculation

Parameters

- Cooling capacity 40 kW
- Pipeline length 20 m
- Copper piping used
- Anti-freeze protection to -20°C (34% ethylene glycol)

Solution

Values taken from table

Copper pipe Ø 54 mm

Pressure loss ΔP 240 Pa/m

Pressure loss per partial section

$240 \text{ Pa/m} \times 20 \text{ m} = 4800 \text{ Pa} = 4.8 \text{ kPa}$

Feed and return lines

$4.8 \text{ kPa} \times 2 = \underline{9.6 \text{ kPa}}$

Insulation thickness

Values taken from table = 14.5 mm

Glycol requirement

$0.65 \text{ l/m} \times 20 \text{ m} \times 2 = \underline{26.0 \text{ l}}$

REMKO QUALITY WITH SYSTEMS

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