



CWW / CFW
Circular duct heaters
for hot water

CWW

Circular duct heaters for hot water

The CWW with circular duct connections uses hot water as the energy carrier and is used for heating the ventilation air in a ventilation system. The CWW can also be used for heating individual rooms or zones. For controlling the room or supply air temperature, the duct heater is supplemented with regulators, sensors, actuators, valves and anti-freeze protection.

- 15 standard sizes
- Circular duct connection with rubber seal
- Casing of Aluzinc-coated sheet steel, AZ 185
- Openable cover for inspection and cleaning
- Hot water coil with 2 or 3 tube rows
- Air tightness class C to EN 15727

Design

The casing is made of Aluzinc-coated sheet steel, AZ 185. The coil has copper tubes and tube connections, and aluminium fins. An openable cover simplifies inspection and cleaning. The duct connections are provided with rubber seals. The duct heater conforms to air tightness class C to EN 15727.

Operating data

Max. operating temperature: +150°C

Max. operating pressure: 1,0 MPa (10 bar)

The coils are pressure tested and tested for leakage.

Capacity

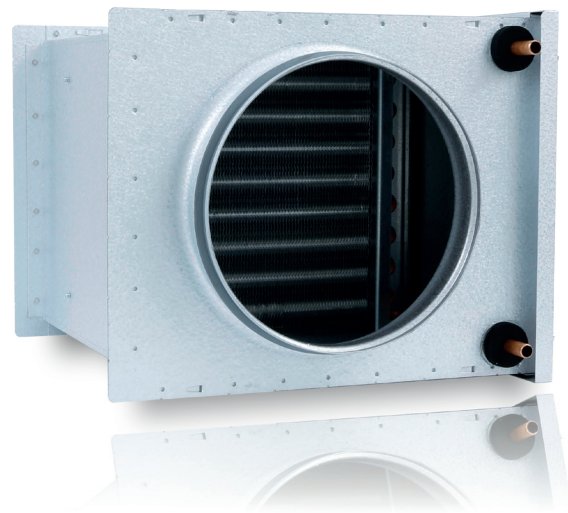
Examples of capacity for each size are given on pages 6 to 13. You can also do your own calculations using our web-based VEAB Select calculation program (www.veab.com), or get in touch with our sales technicians for assistance.

Installation

The CWW can be installed in a horizontal or vertical duct, with the air flow in either direction.

Control

See pages 14 to 16 for a list of regulators, sensors, valves and actuators.

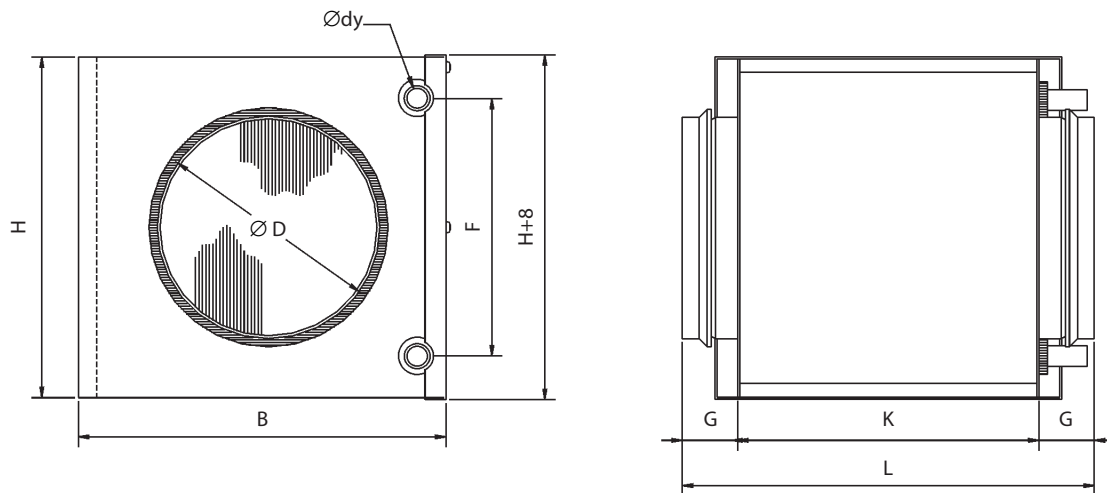


Air tightness class C

The CWW duct heater conforms to air tightness class C, which ensures that the heated air will reach its destination and will not leak out of the ventilation system – which saves energy and money.

Product range overview and dimensions

| Type | Ø D mm | B mm | H mm | Ø dy mm | F mm | G mm | K mm | L mm | Coil inside volume l | Weight kg |
|---------------|--------|------|------|---------|------|------|------|------|----------------------|-----------|
| CWW 100-2-2.5 | 100 | 251 | 180 | 10 | 137 | 30 | 280 | 340 | 0.1 | 3.6 |
| CWW 100-3-2.5 | 100 | 251 | 180 | 10 | 100 | 30 | 280 | 340 | 0.15 | 3.6 |
| CWW 125-2-2.5 | 125 | 251 | 180 | 10 | 137 | 35 | 280 | 350 | 0.1 | 3.6 |
| CWW 125-3-2.5 | 125 | 326 | 255 | 10 | 175 | 35 | 280 | 350 | 0.4 | 5.2 |
| CWW 160-2-2.5 | 160 | 326 | 255 | 10 | 212 | 40 | 280 | 360 | 0.25 | 5.4 |
| CWW 160-3-2.5 | 160 | 326 | 255 | 10 | 175 | 40 | 280 | 360 | 0.4 | 5.4 |
| CWW 200-2-2.5 | 200 | 326 | 255 | 10 | 212 | 40 | 280 | 360 | 0.25 | 5.3 |
| CWW 200-3-2.5 | 200 | 411 | 330 | 22 | 250 | 40 | 280 | 360 | 0.7 | 8.2 |
| CWW 250-2-2.5 | 250 | 411 | 330 | 22 | 250 | 40 | 280 | 360 | 0.45 | 7.7 |
| CWW 250-3-2.5 | 250 | 486 | 405 | 22 | 325 | 40 | 280 | 360 | 1,1 | 10.2 |
| CWW 315-2-2.5 | 315 | 486 | 405 | 22 | 325 | 40 | 280 | 360 | 0.7 | 9.9 |
| CWW 315-3-2.5 | 315 | 560 | 504 | 22 | 400 | 40 | 280 | 360 | 1.61 | 13.4 |
| CWW 400-2-2.5 | 400 | 560 | 504 | 22 | 400 | 55 | 280 | 390 | 1.0 | 13.1 |
| CWW 400-3-2.5 | 400 | 710 | 529 | 22 | 425 | 55 | 332 | 442 | 2,5 | 17.9 |
| CWW 500-2-2.5 | 500 | 707 | 529 | 22 | 425 | 55 | 332 | 442 | 1,6 | 16.9 |



Project design/ordering

Descriptive text for – CWW

VEAB type CWW duct heater with casing made of Aluzinc-coated sheet steel, AZ 185, coil with copper tubes and tube connections, and with aluminium fins. The duct heater conforms to air tightness class C. The heater is controlled by an external regulator, sensors, valves and actuators, which must be ordered separately.

Specify the following for project ordering:

- Air flow rate: - m³/h
- Inlet air temperature: - °C
- Outlet air temp. or required output: - °C or -kW
- Duct size: - mm
- Inlet water temp.: - °C
- Outlet water temp. or water flow: - °C or - l/sec
- Anti-freeze agent - type / %

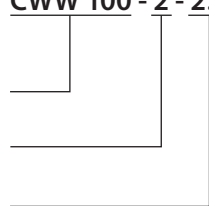
Type designation **CWW 100 - 2 - 2.5**

(example)

Size designation

Number of tube rows

Fin pitch, mm



CFW

Circular duct heaters for hot water, isolated

The CFW with circular duct connections uses hot water as the energy carrier and is used for heating the ventilation air in a ventilation system. The CFW can also be used for heating individual rooms or zones. For controlling the room or supply air temperature, the duct heater is supplemented with regulators, sensors, actuators, valves and anti-freeze protection.

CFW is supplied with double-casing and insulated with 50 mineral wool. CFW has an openable cover, making it easy to clean the coil and air channels. A clean coil boosts efficiency and is good for hygiene.

- 13 standard sizes
- Double-jacket casing made of aluzinc-treated steel plate AZ 185
- Insulated with 50 mm mineral wool.
- Openable cover for inspection and cleaning
- Hot water coil with 2 or 3 tube rows
- Circular duct connection with rubber seal
- Air tightness class C to EN 15727

Design

Double-jacket casing made of aluzinc-treated steel plate AZ 185 with 50 mm mineral wool insulation. The coil has copper tubes and tube connections, and aluminium fins. An openable cover simplifies inspection and cleaning. The duct connections are provided with rubber seals. The duct heater conforms to air tightness class C to EN 15727.

Operating data

Max. operating temperature: +150°C

Max. operating pressure: 1,0 MPa (10 bar)

The coils are pressure tested and tested for leakage.

Capacity

Examples of capacity for each size are given on pages 6 to 13. You can also do your own calculations using our web-based VEAB Select calculation program (www.veab.com), or get in touch with our sales technicians for assistance.

Installation

The CFW can be installed in a horizontal or vertical duct, with the air flow in either direction.

Control

See pages 14 to 16 for a list of regulators, sensors, valves and actuators.

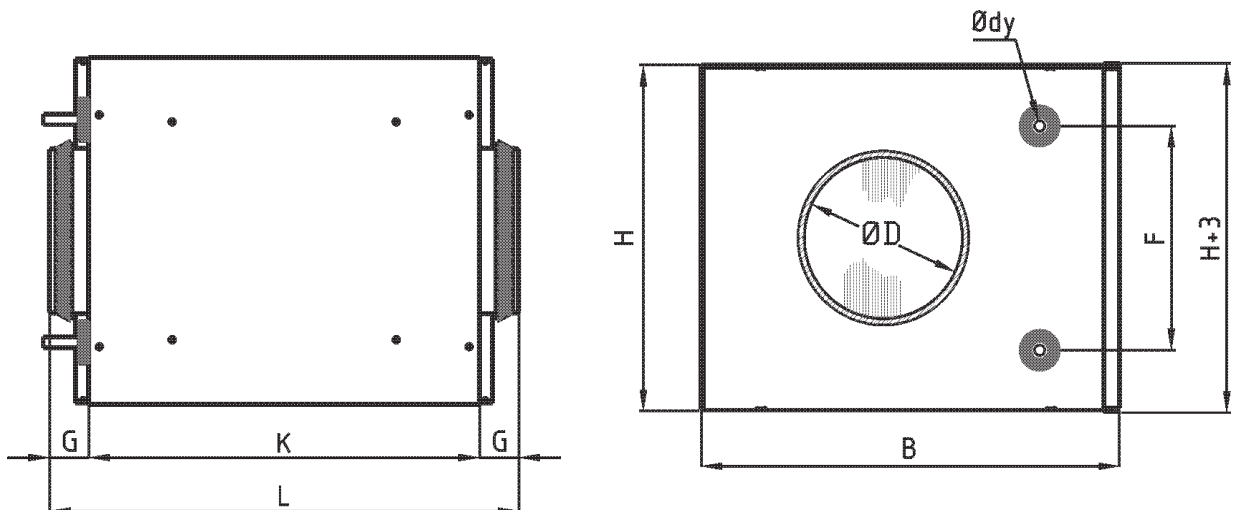
Air tightness class C

The CFW duct heater conforms to air tightness class C, which ensures that the heated air will reach its destination and will not leak out of the ventilation system – which saves energy and money.



Product range overview and dimensions

| Type | ∅ D mm | B mm | H mm | ∅ dy mm | F mm | G mm | K mm | L - 2xG | Coil inside volume l | Weight kg |
|---------------|--------|------|------|---------|------|------|------|---------|----------------------|-----------|
| CFW 125-2-2.5 | 125 | 329 | 253 | 10 | 137 | 35 | 366 | 436 | 0.1 | 9,5 |
| CFW 125-3-2.5 | 125 | 404 | 328 | 10 | 175 | 35 | 366 | 436 | 0.4 | 13,8 |
| CFW 160-2-2.5 | 160 | 404 | 328 | 10 | 212 | 40 | 368 | 448 | 0.23 | 14.4 |
| CFW 160-3-2.5 | 160 | 404 | 328 | 10 | 175 | 40 | 368 | 448 | 0.4 | 14.4 |
| CFW 200-2-2.5 | 200 | 404 | 328 | 10 | 212 | 40 | 368 | 448 | 0.25 | 14 |
| CFW 200-3-2.5 | 200 | 489 | 403 | 22 | 250 | 40 | 368 | 448 | 0.7 | 21,8 |
| CFW 250-2-2.5 | 250 | 489 | 403 | 22 | 250 | 40 | 380 | 460 | 0.45 | 20,5 |
| CFW 250-3-2.5 | 250 | 564 | 478 | 22 | 325 | 40 | 380 | 460 | 1,1 | 26,5 |
| CFW 315-2-2.5 | 315 | 564 | 478 | 22 | 325 | 40 | 382 | 462 | 0.7 | 25,7 |
| CFW 315-3-2.5 | 315 | 639 | 553 | 22 | 400 | 40 | 382 | 462 | 1.61 | 28,8 |
| CFW 400-2-2.5 | 400 | 639 | 553 | 22 | 400 | 55 | 380 | 490 | 1.0 | 28,1 |
| CFW 400-3-2.5 | 400 | 789 | 581 | 22 | 425 | 55 | 380 | 490 | 2,5 | 38 |
| CFW 500-2-2.5 | 500 | 789 | 651 | 22 | 425 | 55 | 378 | 488 | 1,6 | 42 |



Project design/ordering

Descriptive text for – CFW

Duct heaters, VEAB type CFW with 50 mm mineral wool insulated, double-jacket casing in aluzinc-treated steel plate, AZ 185, battery insert with copper pipe and pipe connections and aluminium louvres.

The duct heater conforms to air tightness class C.

The heater is controlled by an external regulator, sensors, valves and actuators, which must be ordered separately.

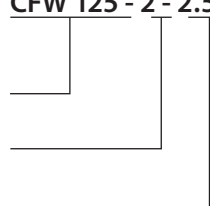
Type designation CFW 125 - 2 - 2.5

(example)

Size designation

Number of tube rows

Fin pitch, mm



Specify the following for project ordering:

1. Air flow rate: - m³/h
2. Inlet air temperature: - °C
3. Outlet air temp. or required output: - °C or -kW
4. Duct size: - mm
5. Inlet water temp.: - °C
6. Outlet water temp. or water flow: - °C or - l/sec
7. Anti-freeze agent - type / %

Capacity of CWW 100-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 55 | 6 | -15 | 40.1 | 1.2 | 0.01 | 0.4 | 22.7 | 0.8 | 0.01 | 0.2 | 27.8 | 0.9 | 0.02 | 1.0 |
| 55 | 6 | -7.5 | 42.7 | 1.0 | 0.01 | 0.4 | 25.9 | 0.7 | 0.01 | 0.2 | 30.3 | 0.8 | 0.02 | 0.8 |
| 55 | 6 | 0 | 45.0 | 0.9 | 0.01 | 0.3 | 29.1 | 0.6 | 0.01 | 0.1 | 32.6 | 0.6 | 0.02 | 0.6 |
| 55 | 6 | 7.5 | 47.0 | 0.8 | 0.01 | 0.2 | 32.1 | 0.5 | 0.01 | 0.1 | 34.6 | 0.5 | 0.01 | 0.4 |
| 55 | 6 | 15 | 48.9 | 0.6 | 0.01 | 0.1 | 35.1 | 0.4 | 0.01 | 0.1 | 36.6 | 0.4 | 0.01 | 0.2 |
| 100 | 15 | -15 | 30.2 | 1.7 | 0.02 | 0.9 | 15.9 | 1.2 | 0.01 | 0.5 | 20.3 | 1.3 | 0.03 | 2.2 |
| 100 | 15 | -7.5 | 33.7 | 1.5 | 0.02 | 0.7 | 18.8 | 1.0 | 0.01 | 0.3 | 23.7 | 1.2 | 0.03 | 1.7 |
| 100 | 15 | 0 | 37.1 | 1.3 | 0.02 | 0.6 | 22.1 | 0.8 | 0.01 | 0.2 | 27.0 | 1.0 | 0.02 | 1.2 |
| 100 | 14 | 7.5 | 40.3 | 1.2 | 0.01 | 0.4 | 26.1 | 0.7 | 0.01 | 0.2 | 30.1 | 0.8 | 0.02 | 0.8 |
| 100 | 14 | 15 | 43.3 | 1.0 | 0.01 | 0.3 | 30.0 | 0.5 | 0.01 | 0.1 | 33.0 | 0.6 | 0.02 | 0.5 |
| 145 | 30 | -15 | 24.2 | 2.2 | 0.03 | 1.5 | 12.0 | 1.5 | 0.02 | 0.7 | 15.7 | 1.7 | 0.04 | 3.5 |
| 145 | 29 | -7.5 | 28.3 | 1.9 | 0.02 | 1.2 | 15.7 | 1.3 | 0.02 | 0.5 | 19.7 | 1.5 | 0.04 | 2.6 |
| 145 | 28 | 0 | 32.3 | 1.7 | 0.02 | 0.9 | 19.0 | 1.0 | 0.01 | 0.3 | 23.6 | 1.2 | 0.03 | 1.9 |
| 145 | 27 | 7.5 | 36.1 | 1.5 | 0.02 | 0.7 | 22.8 | 0.8 | 0.01 | 0.2 | 27.3 | 1.0 | 0.02 | 1.3 |
| 145 | 26 | 15 | 39.7 | 1.2 | 0.02 | 0.5 | 27.3 | 0.6 | 0.01 | 0.1 | 30.8 | 0.8 | 0.02 | 0.8 |

Capacity of CWW 100-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 55 | 9 | -15 | 57.1 | 1.5 | 0.02 | 1.1 | 37.1 | 1.1 | 0.01 | 0.6 | 39.9 | 1.2 | 0.03 | 2.5 |
| 55 | 9 | -7.5 | 58.5 | 1.3 | 0.02 | 0.9 | 38.1 | 0.9 | 0.01 | 0.4 | 41.2 | 1.0 | 0.02 | 1.9 |
| 55 | 9 | 0 | 59.7 | 1.2 | 0.01 | 0.7 | 39.2 | 0.8 | 0.01 | 0.3 | 42.4 | 0.8 | 0.02 | 1.4 |
| 55 | 9 | 7.5 | 60.8 | 1.0 | 0.01 | 0.5 | 40.9 | 0.6 | 0.01 | 0.2 | 43.4 | 0.7 | 0.02 | 1.0 |
| 55 | 9 | 15 | 61.6 | 0.9 | 0.01 | 0.4 | 42.5 | 0.5 | 0.01 | 0.2 | 44.2 | 0.6 | 0.01 | 0.6 |
| 100 | 23 | -15 | 46.9 | 2.4 | 0.03 | 2.6 | 29.9 | 1.7 | 0.02 | 1.4 | 32.5 | 1.8 | 0.04 | 6.0 |
| 100 | 23 | -7.5 | 49.2 | 2.1 | 0.03 | 2.1 | 31.9 | 1.5 | 0.02 | 1.0 | 34.7 | 1.6 | 0.04 | 4.5 |
| 100 | 22 | 0 | 51.4 | 1.9 | 0.02 | 1.6 | 33.6 | 1.2 | 0.01 | 0.7 | 36.8 | 1.3 | 0.03 | 3.3 |
| 100 | 21 | 7.5 | 53.4 | 1.6 | 0.02 | 1.2 | 34.8 | 1.0 | 0.01 | 0.5 | 38.7 | 1.1 | 0.03 | 2.3 |
| 100 | 21 | 15 | 55.3 | 1.4 | 0.02 | 0.9 | 36.7 | 0.7 | 0.01 | 0.3 | 40.4 | 0.9 | 0.02 | 1.5 |
| 145 | 45 | -15 | 40.2 | 3.1 | 0.04 | 4.2 | 25.0 | 2.2 | 0.03 | 2.3 | 27.5 | 2.4 | 0.06 | 9.9 |
| 145 | 43 | -7.5 | 43.1 | 2.7 | 0.03 | 3.4 | 27.6 | 1.9 | 0.02 | 1.7 | 30.3 | 2.0 | 0.05 | 7.4 |
| 145 | 42 | 0 | 45.9 | 2.4 | 0.03 | 2.7 | 30.1 | 1.6 | 0.02 | 1.2 | 32.9 | 1.7 | 0.04 | 5.4 |
| 145 | 40 | 7.5 | 48.5 | 2.1 | 0.03 | 2.0 | 32.2 | 1.3 | 0.02 | 0.8 | 35.4 | 1.4 | 0.03 | 3.7 |
| 145 | 39 | 15 | 51.0 | 1.8 | 0.02 | 1.5 | 33.8 | 0.9 | 0.01 | 0.5 | 37.8 | 1.1 | 0.03 | 2.4 |

Capacity of CWW 125-2-2,5 / CFW 125-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 85 | 12 | -15 | 32.9 | 1.6 | 0.02 | 0.8 | 17.5 | 1.1 | 0.01 | 0.4 | 22.3 | 1.2 | 0.03 | 1.8 |
| 85 | 11 | -7.5 | 36.2 | 1.4 | 0.02 | 0.6 | 20.4 | 0.9 | 0.01 | 0.3 | 25.5 | 1.0 | 0.03 | 1.4 |
| 85 | 11 | 0 | 39.3 | 1.2 | 0.01 | 0.5 | 23.9 | 0.7 | 0.01 | 0.2 | 28.5 | 0.9 | 0.02 | 1.0 |
| 85 | 11 | 7.5 | 42.2 | 1.0 | 0.01 | 0.4 | 27.6 | 0.6 | 0.01 | 0.1 | 31.4 | 0.7 | 0.02 | 0.7 |
| 85 | 11 | 15 | 44.8 | 0.9 | 0.01 | 0.3 | 31.3 | 0.5 | 0.01 | 0.1 | 33.9 | 0.6 | 0.01 | 0.4 |
| 150 | 31 | -15 | 23.7 | 2.2 | 0.03 | 1.5 | 11.7 | 1.5 | 0.02 | 0.8 | 15.3 | 1.7 | 0.04 | 3.7 |
| 150 | 30 | -7.5 | 27.9 | 2.0 | 0.02 | 1.2 | 15.4 | 1.3 | 0.02 | 0.5 | 19.4 | 1.5 | 0.04 | 2.7 |
| 150 | 29 | 0 | 31.9 | 1.7 | 0.02 | 0.9 | 18.8 | 1.0 | 0.01 | 0.4 | 23.3 | 1.3 | 0.03 | 2.0 |
| 150 | 28 | 7.5 | 35.7 | 1.5 | 0.02 | 0.7 | 22.5 | 0.8 | 0.01 | 0.2 | 27.0 | 1.0 | 0.03 | 1.3 |
| 150 | 28 | 15 | 39.4 | 1.3 | 0.02 | 0.5 | 27.1 | 0.6 | 0.01 | 0.1 | 30.6 | 0.8 | 0.02 | 0.8 |
| 215 | 61 | -15 | 18.3 | 2.7 | 0.03 | 2.3 | 8.1 | 1.9 | 0.02 | 1.1 | 11.2 | 2.2 | 0.05 | 5.5 |
| 215 | 59 | -7.5 | 22.9 | 2.4 | 0.03 | 1.8 | 12.4 | 1.6 | 0.02 | 0.8 | 15.7 | 1.9 | 0.04 | 4.1 |
| 215 | 58 | 0 | 27.5 | 2.1 | 0.03 | 1.4 | 16.5 | 1.3 | 0.02 | 0.5 | 20.1 | 1.6 | 0.04 | 3.0 |
| 215 | 56 | 7.5 | 31.8 | 1.8 | 0.02 | 1.1 | 20.2 | 1.0 | 0.01 | 0.3 | 24.4 | 1.3 | 0.03 | 2.0 |
| 215 | 54 | 15 | 36.1 | 1.6 | 0.02 | 0.8 | 24.8 | 0.7 | 0.01 | 0.2 | 28.5 | 1.0 | 0.02 | 1.3 |

CWW / CFW

Capacity of CWW 125-3-2,5 / CFW 125-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 85 | 6 | -15 | 66.9 | 2.7 | 0.03 | 5.7 | 47.3 | 2.0 | 0.02 | 3.5 | 46.4 | 2.0 | 0.05 | 12.6 |
| 85 | 5 | -7.5 | 67.8 | 2.4 | 0.03 | 4.6 | 48.0 | 1.8 | 0.02 | 2.7 | 47.2 | 1.7 | 0.04 | 9.6 |
| 85 | 5 | 0 | 68.6 | 2.1 | 0.03 | 3.7 | 48.6 | 1.5 | 0.02 | 2.0 | 48.0 | 1.5 | 0.04 | 7.1 |
| 85 | 5 | 7.5 | 69.3 | 1.8 | 0.02 | 2.9 | 49.0 | 1.2 | 0.02 | 1.4 | 48.7 | 1.2 | 0.03 | 5.0 |
| 85 | 5 | 15 | 69.9 | 1.6 | 0.02 | 2.2 | 49.0 | 1.0 | 0.01 | 0.9 | 49.2 | 1.0 | 0.02 | 3.4 |
| 150 | 12 | -15 | 58.4 | 4.2 | 0.05 | 13.7 | 40.5 | 3.2 | 0.04 | 8.2 | 40.4 | 3.2 | 0.08 | 30.6 |
| 150 | 12 | -7.5 | 60.1 | 3.8 | 0.05 | 11.0 | 42.0 | 2.8 | 0.03 | 6.3 | 41.9 | 2.8 | 0.07 | 23.3 |
| 150 | 11 | 0 | 61.6 | 3.3 | 0.04 | 8.8 | 43.3 | 2.3 | 0.03 | 4.6 | 43.3 | 2.3 | 0.06 | 17.2 |
| 150 | 11 | 7.5 | 63.0 | 2.9 | 0.04 | 6.8 | 44.4 | 1.9 | 0.02 | 3.2 | 44.7 | 2.0 | 0.05 | 12.2 |
| 150 | 11 | 15 | 64.2 | 2.5 | 0.03 | 5.2 | 45.3 | 1.6 | 0.02 | 2.1 | 45.9 | 1.6 | 0.04 | 8.2 |
| 215 | 20 | -15 | 52.2 | 5.5 | 0.07 | 22.9 | 35.6 | 4.2 | 0.05 | 13.7 | 35.9 | 4.2 | 0.10 | 51.8 |
| 215 | 20 | -7.5 | 54.4 | 4.9 | 0.06 | 18.5 | 37.6 | 3.6 | 0.04 | 10.4 | 37.9 | 3.6 | 0.09 | 39.5 |
| 215 | 19 | 0 | 56.4 | 4.4 | 0.05 | 14.7 | 39.5 | 3.1 | 0.04 | 7.6 | 39.9 | 3.1 | 0.08 | 29.1 |
| 215 | 19 | 7.5 | 58.3 | 3.8 | 0.05 | 11.5 | 41.1 | 2.5 | 0.03 | 5.4 | 41.7 | 2.6 | 0.06 | 20.6 |
| 215 | 18 | 15 | 60.1 | 3.3 | 0.04 | 8.7 | 42.6 | 2.0 | 0.02 | 3.5 | 43.3 | 2.1 | 0.05 | 13.8 |

Capacity of CWW 160-2-2,5 / CFW 160-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 145 | 7 | -15 | 43.2 | 3.2 | 0.04 | 5.5 | 28.1 | 2.4 | 0.03 | 3.2 | 29.4 | 2.5 | 0.06 | 12.6 |
| 145 | 7 | -7.5 | 46.1 | 2.9 | 0.04 | 4.4 | 30.8 | 2.1 | 0.03 | 2.4 | 32.1 | 2.1 | 0.05 | 9.6 |
| 145 | 7 | 0 | 48.8 | 2.6 | 0.03 | 3.5 | 33.2 | 1.7 | 0.02 | 1.8 | 34.7 | 1.8 | 0.04 | 7.1 |
| 145 | 7 | 7.5 | 51.3 | 2.2 | 0.03 | 2.7 | 35.4 | 1.4 | 0.02 | 1.2 | 37.1 | 1.5 | 0.04 | 5.0 |
| 145 | 6 | 15 | 53.7 | 1.9 | 0.02 | 2.1 | 37.2 | 1.1 | 0.01 | 0.8 | 39.4 | 1.2 | 0.03 | 3.3 |
| 250 | 16 | -15 | 33.5 | 4.6 | 0.06 | 10.9 | 20.8 | 3.4 | 0.04 | 6.3 | 22.1 | 3.5 | 0.09 | 25.2 |
| 250 | 16 | -7.5 | 37.1 | 4.1 | 0.05 | 8.8 | 24.3 | 2.9 | 0.04 | 4.7 | 25.7 | 3.1 | 0.07 | 19.2 |
| 250 | 15 | 0 | 40.6 | 3.7 | 0.05 | 7.0 | 27.6 | 2.5 | 0.03 | 3.5 | 29.1 | 2.6 | 0.06 | 14.2 |
| 250 | 15 | 7.5 | 44.0 | 3.2 | 0.04 | 5.4 | 30.7 | 2.0 | 0.02 | 2.4 | 32.3 | 2.2 | 0.05 | 10.0 |
| 250 | 15 | 15 | 47.3 | 2.8 | 0.03 | 4.1 | 33.6 | 1.6 | 0.02 | 1.5 | 35.5 | 1.8 | 0.04 | 6.6 |
| 355 | 30 | -15 | 27.4 | 5.8 | 0.07 | 16.6 | 16.3 | 4.2 | 0.05 | 9.5 | 17.6 | 4.4 | 0.11 | 38.4 |
| 355 | 29 | -7.5 | 31.6 | 5.2 | 0.06 | 13.4 | 20.3 | 3.7 | 0.04 | 7.2 | 21.6 | 3.8 | 0.09 | 29.3 |
| 355 | 29 | 0 | 35.6 | 4.6 | 0.06 | 10.7 | 24.1 | 3.1 | 0.04 | 5.2 | 25.5 | 3.3 | 0.08 | 21.6 |
| 355 | 28 | 7.5 | 39.5 | 4.0 | 0.05 | 8.3 | 27.8 | 2.5 | 0.03 | 3.6 | 29.3 | 2.7 | 0.07 | 15.3 |
| 355 | 27 | 15 | 43.3 | 3.4 | 0.04 | 6.2 | 31.3 | 2.0 | 0.02 | 2.2 | 33.0 | 2.2 | 0.05 | 10.0 |

Capacity of CWW 160-3-2,5 / CFW 160-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 145 | 11 | -15 | 59.0 | 4.1 | 0.05 | 13.0 | 41.0 | 3.1 | 0.04 | 7.8 | 40.8 | 3.1 | 0.08 | 29.1 |
| 145 | 11 | -7.5 | 60.6 | 3.7 | 0.05 | 10.5 | 42.4 | 2.7 | 0.03 | 6.0 | 42.3 | 2.7 | 0.07 | 22.1 |
| 145 | 10 | 0 | 62.0 | 3.2 | 0.04 | 8.3 | 43.6 | 2.3 | 0.03 | 4.4 | 43.7 | 2.3 | 0.06 | 16.4 |
| 145 | 10 | 7.5 | 63.4 | 2.8 | 0.04 | 6.5 | 44.7 | 1.9 | 0.02 | 3.1 | 44.9 | 1.9 | 0.05 | 11.6 |
| 145 | 10 | 15 | 64.6 | 2.5 | 0.03 | 4.9 | 45.5 | 1.5 | 0.02 | 2.0 | 46.1 | 1.5 | 0.04 | 7.8 |
| 250 | 25 | -15 | 49.5 | 6.2 | 0.08 | 28.2 | 33.5 | 4.6 | 0.06 | 16.8 | 33.9 | 4.7 | 0.11 | 64.0 |
| 250 | 24 | -7.5 | 51.9 | 5.5 | 0.07 | 22.8 | 35.7 | 4.0 | 0.05 | 12.8 | 36.2 | 4.1 | 0.10 | 48.8 |
| 250 | 23 | 0 | 54.1 | 4.9 | 0.06 | 18.2 | 37.8 | 3.4 | 0.04 | 9.4 | 38.3 | 3.5 | 0.08 | 36.0 |
| 250 | 23 | 7.5 | 56.2 | 4.3 | 0.05 | 14.1 | 39.7 | 2.8 | 0.03 | 6.6 | 40.3 | 2.9 | 0.07 | 25.5 |
| 250 | 22 | 15 | 58.2 | 3.7 | 0.05 | 10.7 | 41.4 | 2.3 | 0.03 | 4.3 | 42.2 | 2.3 | 0.06 | 17.0 |
| 355 | 46 | -15 | 42.9 | 7.9 | 0.10 | 45.1 | 28.5 | 5.9 | 0.07 | 26.6 | 29.1 | 6.0 | 0.15 | 103.0 |
| 355 | 45 | -7.5 | 45.9 | 7.0 | 0.09 | 36.5 | 31.2 | 5.1 | 0.06 | 20.2 | 31.9 | 5.2 | 0.13 | 78.5 |
| 355 | 43 | 0 | 48.7 | 6.2 | 0.08 | 29.0 | 33.9 | 4.3 | 0.05 | 14.8 | 34.6 | 4.4 | 0.11 | 58.0 |
| 355 | 41 | 7.5 | 51.4 | 5.5 | 0.07 | 22.6 | 36.3 | 3.6 | 0.04 | 10.4 | 37.1 | 3.7 | 0.09 | 41.0 |
| 355 | 40 | 15 | 53.9 | 4.7 | 0.06 | 17.1 | 38.6 | 2.9 | 0.03 | 6.7 | 39.6 | 3.0 | 0.07 | 27.3 |

Capacity of CWW 200-2-2,5 / CFW 200-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 225 | 14 | -15 | 35.3 | 4.3 | 0.05 | 9.6 | 22.2 | 3.2 | 0.04 | 5.5 | 23.5 | 3.3 | 0.08 | 22.1 |
| 225 | 13 | -7.5 | 38.8 | 3.9 | 0.05 | 7.8 | 25.5 | 2.8 | 0.03 | 4.2 | 26.9 | 2.9 | 0.07 | 16.9 |
| 225 | 13 | 0 | 42.2 | 3.4 | 0.04 | 6.2 | 28.7 | 2.3 | 0.03 | 3.0 | 30.2 | 2.5 | 0.06 | 12.5 |
| 225 | 13 | 7.5 | 45.4 | 3.0 | 0.04 | 4.8 | 31.6 | 1.9 | 0.02 | 2.1 | 33.3 | 2.0 | 0.05 | 8.8 |
| 225 | 12 | 15 | 48.5 | 2.6 | 0.03 | 3.6 | 34.3 | 1.5 | 0.02 | 1.3 | 36.2 | 1.6 | 0.04 | 5.8 |
| 390 | 36 | -15 | 25.9 | 6.1 | 0.07 | 18.4 | 15.1 | 4.5 | 0.05 | 10.6 | 16.4 | 4.7 | 0.11 | 42.9 |
| 390 | 35 | -7.5 | 30.2 | 5.5 | 0.07 | 14.9 | 19.3 | 3.9 | 0.05 | 8.0 | 20.6 | 4.1 | 0.10 | 32.8 |
| 390 | 34 | 0 | 34.3 | 4.8 | 0.06 | 11.9 | 23.3 | 3.3 | 0.04 | 5.8 | 24.6 | 3.5 | 0.08 | 24.2 |
| 390 | 33 | 7.5 | 38.3 | 4.2 | 0.05 | 9.2 | 27.1 | 2.7 | 0.03 | 4.0 | 28.6 | 2.9 | 0.07 | 17.0 |
| 390 | 32 | 15 | 42.3 | 3.6 | 0.04 | 6.9 | 30.7 | 2.1 | 0.03 | 2.5 | 32.3 | 2.3 | 0.06 | 11.5 |
| 555 | 69 | -15 | 20.3 | 7.5 | 0.09 | 27.4 | 11.0 | 5.5 | 0.07 | 15.6 | 12.2 | 5.8 | 0.14 | 64.1 |
| 555 | 67 | -7.5 | 20.3 | 7.5 | 0.09 | 27.4 | 15.6 | 4.8 | 0.06 | 11.8 | 16.8 | 5.0 | 0.12 | 48.9 |
| 555 | 65 | 0 | 29.7 | 5.9 | 0.07 | 17.6 | 20.0 | 4.0 | 0.05 | 8.5 | 21.3 | 4.3 | 0.10 | 36.1 |
| 555 | 63 | 7.5 | 34.1 | 5.2 | 0.06 | 13.6 | 24.4 | 3.3 | 0.04 | 5.8 | 25.7 | 3.6 | 0.09 | 25.4 |
| 555 | 61 | 15 | 38.5 | 4.5 | 0.05 | 10.2 | 28.5 | 2.6 | 0.03 | 3.7 | 30.0 | 2.9 | 0.07 | 16.7 |

CWW / CFW

Capacity of CWW 200-3-2,5 / CFW 200-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 225 | 8 | -15 | 61.4 | 6.6 | 0.08 | 7.1 | 42.7 | 5.0 | 0.06 | 4.3 | 42.6 | 4.9 | 0.12 | 15.9 |
| 225 | 8 | -7.5 | 62.7 | 5.9 | 0.07 | 5.8 | 43.9 | 4.3 | 0.05 | 3.3 | 43.8 | 4.3 | 0.10 | 12.1 |
| 225 | 8 | 0 | 64.0 | 5.2 | 0.06 | 4.6 | 44.9 | 3.7 | 0.04 | 2.4 | 45.0 | 3.7 | 0.09 | 9.0 |
| 225 | 8 | 7.5 | 65.1 | 4.6 | 0.06 | 3.6 | 45.7 | 3.0 | 0.04 | 1.7 | 46.0 | 3.0 | 0.07 | 6.4 |
| 225 | 8 | 15 | 66.1 | 3.9 | 0.05 | 2.7 | 46.2 | 2.4 | 0.03 | 1.1 | 47.0 | 2.5 | 0.06 | 4.3 |
| 390 | 19 | -15 | 52.1 | 10.0 | 0.12 | 15.8 | 35.5 | 7.5 | 0.09 | 9.5 | 35.9 | 7.6 | 0.18 | 35.8 |
| 390 | 18 | -7.5 | 54.3 | 8.9 | 0.11 | 12.8 | 37.4 | 6.5 | 0.08 | 7.2 | 37.9 | 6.6 | 0.16 | 27.3 |
| 390 | 18 | 0 | 56.3 | 7.9 | 0.10 | 10.2 | 39.2 | 5.5 | 0.07 | 5.3 | 39.8 | 5.6 | 0.14 | 20.2 |
| 390 | 17 | 7.5 | 58.2 | 7.0 | 0.09 | 8.0 | 40.9 | 4.6 | 0.06 | 3.7 | 41.6 | 4.7 | 0.11 | 14.3 |
| 390 | 17 | 15 | 59.9 | 6.0 | 0.07 | 6.0 | 42.2 | 3.6 | 0.04 | 2.4 | 43.2 | 3.8 | 0.09 | 9.6 |
| 555 | 34 | -15 | 45.7 | 12.9 | 0.16 | 25.6 | 30.5 | 9.6 | 0.12 | 15.2 | 31.2 | 9.8 | 0.24 | 58.1 |
| 555 | 33 | -7.5 | 48.4 | 11.5 | 0.14 | 20.7 | 33.0 | 8.3 | 0.10 | 11.5 | 33.7 | 8.5 | 0.21 | 44.4 |
| 555 | 32 | 0 | 50.9 | 10.2 | 0.13 | 16.5 | 35.3 | 7.1 | 0.09 | 8.5 | 36.2 | 7.2 | 0.18 | 32.8 |
| 555 | 30 | 7.5 | 53.3 | 8.9 | 0.11 | 12.8 | 37.5 | 5.9 | 0.07 | 5.9 | 38.5 | 6.0 | 0.15 | 23.2 |
| 555 | 29 | 15 | 55.6 | 7.7 | 0.09 | 9.7 | 39.5 | 4.7 | 0.06 | 3.9 | 40.6 | 4.9 | 0.12 | 15.5 |

Capacity of CWW 250-2-2,5 / CFW 250-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 360 | 11 | -15 | 37.4 | 7.2 | 0.09 | 5.9 | 23.6 | 5.3 | 0.06 | 3.4 | 25.2 | 5.5 | 0.13 | 13.7 |
| 360 | 11 | -7.5 | 40.7 | 6.4 | 0.08 | 4.8 | 26.7 | 4.6 | 0.06 | 2.6 | 28.3 | 4.8 | 0.12 | 10.4 |
| 360 | 10 | 0 | 43.9 | 5.7 | 0.07 | 3.8 | 29.6 | 3.8 | 0.05 | 1.9 | 31.4 | 4.1 | 0.10 | 7.7 |
| 360 | 10 | 7.5 | 46.9 | 5.0 | 0.06 | 3.0 | 32.3 | 3.1 | 0.04 | 1.3 | 34.3 | 3.4 | 0.08 | 5.4 |
| 360 | 10 | 15 | 49.8 | 4.3 | 0.05 | 2.2 | 34.7 | 2.4 | 0.03 | 0.8 | 37.0 | 2.7 | 0.07 | 3.6 |
| 630 | 29 | -15 | 27.7 | 10.3 | 0.13 | 11.6 | 16.4 | 7.6 | 0.09 | 6.6 | 17.9 | 7.9 | 0.19 | 27.0 |
| 630 | 28 | -7.5 | 31.8 | 9.2 | 0.11 | 9.4 | 20.3 | 6.5 | 0.08 | 5.0 | 21.8 | 6.9 | 0.17 | 20.6 |
| 630 | 27 | 0 | 35.8 | 8.1 | 0.10 | 7.5 | 24.1 | 5.5 | 0.07 | 3.6 | 25.7 | 5.8 | 0.14 | 15.2 |
| 630 | 26 | 7.5 | 39.6 | 7.1 | 0.09 | 5.8 | 27.7 | 4.5 | 0.05 | 2.5 | 29.4 | 4.9 | 0.12 | 10.7 |
| 630 | 25 | 15 | 43.4 | 6.1 | 0.08 | 4.4 | 31.1 | 3.5 | 0.04 | 1.5 | 33.0 | 3.9 | 0.09 | 7.0 |
| 900 | 55 | -15 | 21.9 | 12.7 | 0.16 | 17.4 | 12.1 | 9.3 | 0.11 | 9.9 | 13.5 | 9.8 | 0.24 | 40.7 |
| 900 | 53 | -7.5 | 26.5 | 11.4 | 0.14 | 14.1 | 16.5 | 8.0 | 0.10 | 7.5 | 18.0 | 8.5 | 0.21 | 31.1 |
| 900 | 52 | 0 | 31.0 | 10.1 | 0.12 | 11.2 | 20.8 | 6.8 | 0.08 | 5.4 | 22.3 | 7.3 | 0.18 | 22.9 |
| 900 | 50 | 7.5 | 35.3 | 8.8 | 0.11 | 8.7 | 25.0 | 5.5 | 0.07 | 3.7 | 26.5 | 6.0 | 0.15 | 16.1 |
| 900 | 49 | 15 | 39.5 | 7.6 | 0.09 | 6.5 | 28.9 | 4.3 | 0.05 | 2.3 | 30.7 | 4.8 | 0.12 | 10.6 |

Capacity of CWW 250-3-2,5 / CFW 250-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 360 | 9 | -15 | 61.5 | 10.5 | 0.13 | 8.6 | 42.9 | 8.0 | 0.10 | 5.2 | 42.6 | 7.9 | 0.19 | 19.1 |
| 360 | 8 | -7.5 | 62.8 | 9.4 | 0.12 | 6.9 | 44.0 | 6.9 | 0.08 | 4.0 | 43.8 | 6.9 | 0.17 | 14.5 |
| 360 | 8 | 0 | 64.1 | 8.3 | 0.10 | 5.5 | 45.1 | 5.9 | 0.07 | 2.9 | 45.0 | 5.9 | 0.14 | 10.8 |
| 360 | 8 | 7.5 | 65.2 | 7.3 | 0.09 | 4.3 | 45.9 | 4.9 | 0.06 | 2.1 | 46.1 | 4.9 | 0.12 | 7.7 |
| 360 | 8 | 15 | 66.2 | 6.3 | 0.08 | 3.3 | 46.4 | 3.9 | 0.05 | 1.4 | 47.0 | 4.0 | 0.10 | 5.1 |
| 630 | 19 | -15 | 52.0 | 16.1 | 0.20 | 19.2 | 35.4 | 12.1 | 0.15 | 11.5 | 35.8 | 12.2 | 0.30 | 43.4 |
| 630 | 19 | -7.5 | 54.2 | 14.4 | 0.18 | 15.6 | 37.4 | 10.5 | 0.13 | 8.8 | 37.8 | 10.6 | 0.26 | 33.1 |
| 630 | 18 | 0 | 56.2 | 12.8 | 0.16 | 12.4 | 39.2 | 8.9 | 0.11 | 6.5 | 39.8 | 9.0 | 0.22 | 24.5 |
| 630 | 18 | 7.5 | 58.1 | 11.2 | 0.14 | 9.7 | 40.9 | 7.4 | 0.09 | 4.6 | 41.6 | 7.5 | 0.18 | 17.4 |
| 630 | 17 | 15 | 59.9 | 9.7 | 0.12 | 7.3 | 42.3 | 5.9 | 0.07 | 3.0 | 43.2 | 6.1 | 0.15 | 11.6 |
| 900 | 35 | -15 | 45.5 | 20.8 | 0.26 | 31.2 | 30.4 | 15.6 | 0.19 | 18.5 | 31.0 | 15.8 | 0.38 | 70.9 |
| 900 | 34 | -7.5 | 48.2 | 18.6 | 0.23 | 25.2 | 32.9 | 13.5 | 0.16 | 14.1 | 33.6 | 13.7 | 0.33 | 54.1 |
| 900 | 33 | 0 | 50.8 | 16.5 | 0.20 | 20.1 | 35.3 | 11.5 | 0.14 | 10.4 | 36.0 | 11.7 | 0.28 | 40.1 |
| 900 | 31 | 7.5 | 53.2 | 14.5 | 0.18 | 15.7 | 37.5 | 9.5 | 0.12 | 7.3 | 38.4 | 9.8 | 0.24 | 28.4 |
| 900 | 30 | 15 | 55.5 | 12.5 | 0.15 | 11.9 | 39.5 | 7.6 | 0.09 | 4.7 | 40.6 | 7.9 | 0.19 | 18.9 |

Capacity of CWW 315-2-2,5 / CFW 315-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 560 | 11 | -15 | 38,0 | 11,3 | 0,14 | 7,2 | 24,1 | 8,4 | 0,10 | 4,2 | 25,6 | 8,7 | 0,21 | 16,6 |
| 560 | 10 | -7,5 | 41,3 | 10,1 | 0,12 | 5,8 | 27,2 | 7,2 | 0,09 | 3,2 | 28,7 | 7,5 | 0,18 | 12,7 |
| 560 | 10 | 0 | 44,4 | 9,0 | 0,11 | 4,6 | 30,1 | 6,1 | 0,07 | 2,3 | 31,7 | 6,4 | 0,16 | 9,4 |
| 560 | 10 | 7,5 | 47,4 | 7,9 | 0,10 | 3,6 | 32,7 | 5,0 | 0,06 | 1,6 | 34,6 | 5,3 | 0,13 | 6,6 |
| 560 | 10 | 15 | 50,2 | 6,8 | 0,08 | 2,7 | 35,1 | 3,9 | 0,05 | 1,0 | 37,3 | 4,3 | 0,10 | 4,3 |
| 985 | 27 | -15 | 28,1 | 16,2 | 0,20 | 14,3 | 16,8 | 12,0 | 0,15 | 8,2 | 18,2 | 12,5 | 0,30 | 33,2 |
| 985 | 26 | -7,5 | 32,2 | 14,5 | 0,18 | 11,6 | 20,7 | 10,3 | 0,13 | 6,2 | 22,1 | 10,8 | 0,26 | 25,3 |
| 985 | 26 | 0 | 36,2 | 12,9 | 0,16 | 9,2 | 24,4 | 8,7 | 0,11 | 4,5 | 26,0 | 9,2 | 0,22 | 18,7 |
| 985 | 25 | 7,5 | 40,0 | 11,3 | 0,14 | 7,1 | 28,0 | 7,1 | 0,09 | 3,1 | 29,7 | 7,7 | 0,19 | 13,1 |
| 985 | 24 | 15 | 43,7 | 9,7 | 0,12 | 5,4 | 31,4 | 5,5 | 0,07 | 1,9 | 33,3 | 6,2 | 0,15 | 8,7 |
| 1410 | 53 | -15 | 22,3 | 20,1 | 0,25 | 21,4 | 12,4 | 14,8 | 0,18 | 12,2 | 13,8 | 15,5 | 0,38 | 50,1 |
| 1410 | 52 | -7,5 | 26,9 | 18,0 | 0,22 | 17,4 | 16,8 | 12,7 | 0,15 | 9,2 | 18,2 | 13,5 | 0,33 | 38,3 |
| 1410 | 50 | 0 | 31,3 | 15,9 | 0,20 | 13,8 | 21,1 | 10,7 | 0,13 | 6,7 | 22,5 | 11,5 | 0,28 | 28,2 |
| 1410 | 48 | 7,5 | 35,6 | 14,0 | 0,17 | 10,7 | 25,2 | 8,8 | 0,11 | 4,6 | 26,7 | 9,5 | 0,23 | 19,9 |
| 1410 | 47 | 15 | 39,8 | 12,0 | 0,15 | 8,0 | 29,2 | 6,9 | 0,08 | 2,9 | 30,8 | 7,7 | 0,19 | 13,1 |

CWW / CFW

Capacity of CWW 315-3-2,5 / CFW 315-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 560 | 9 | -15 | 60.7 | 16.2 | 0.20 | 13.0 | 42.3 | 12.3 | 0.15 | 7.9 | 42.0 | 12.2 | 0.30 | 29.1 |
| 560 | 9 | -7.5 | 62.1 | 14.5 | 0.18 | 10.5 | 43.6 | 10.6 | 0.13 | 6.0 | 43.3 | 10.6 | 0.26 | 22.2 |
| 560 | 9 | 0 | 63.4 | 12.8 | 0.16 | 8.4 | 44.7 | 9.0 | 0.11 | 4.5 | 44.6 | 9.0 | 0.22 | 16.4 |
| 560 | 9 | 7.5 | 64.6 | 11.3 | 0.14 | 6.5 | 45.7 | 7.5 | 0.09 | 3.2 | 45.7 | 7.5 | 0.18 | 11.7 |
| 560 | 8 | 15 | 65.7 | 9.7 | 0.12 | 5.0 | 46.4 | 6.0 | 0.07 | 2.1 | 46.8 | 6.1 | 0.15 | 7.8 |
| 985 | 22 | -15 | 51.0 | 24.8 | 0.30 | 29.4 | 34.7 | 18.7 | 0.23 | 17.6 | 35.0 | 18.8 | 0.46 | 66.4 |
| 985 | 21 | -7.5 | 53.2 | 22.2 | 0.27 | 23.8 | 36.8 | 16.2 | 0.20 | 13.4 | 37.2 | 16.3 | 0.40 | 50.7 |
| 985 | 20 | 0 | 55.4 | 19.7 | 0.24 | 18.9 | 38.7 | 13.8 | 0.17 | 9.9 | 39.2 | 13.9 | 0.34 | 37.5 |
| 985 | 20 | 7.5 | 57.4 | 17.3 | 0.21 | 14.8 | 40.5 | 11.4 | 0.14 | 6.9 | 41.1 | 11.6 | 0.28 | 26.6 |
| 985 | 19 | 15 | 59.2 | 14.9 | 0.18 | 11.2 | 42.1 | 9.1 | 0.11 | 4.6 | 42.8 | 9.4 | 0.23 | 17.7 |
| 1410 | 40 | -15 | 44.3 | 32.0 | 0.39 | 47.6 | 29.6 | 24.0 | 0.29 | 28.2 | 30.1 | 24.3 | 0.59 | 108.5 |
| 1410 | 39 | -7.5 | 47.2 | 28.6 | 0.35 | 38.5 | 32.2 | 20.8 | 0.25 | 21.5 | 32.8 | 21.1 | 0.51 | 82.7 |
| 1410 | 37 | 0 | 49.9 | 25.4 | 0.31 | 30.7 | 34.7 | 17.7 | 0.22 | 15.8 | 35.4 | 18.0 | 0.44 | 61.2 |
| 1410 | 36 | 7.5 | 52.4 | 22.3 | 0.27 | 23.9 | 37.1 | 14.7 | 0.18 | 11.1 | 37.8 | 15.0 | 0.36 | 43.3 |
| 1410 | 35 | 15 | 54.8 | 19.2 | 0.24 | 18.1 | 39.2 | 11.7 | 0.14 | 7.3 | 40.1 | 12.1 | 0.29 | 28.9 |

Capacity of CWW 400-2-2,5 / CFW 400-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 900 | 12 | -15 | 36.5 | 17.7 | 0.22 | 11.9 | 23.1 | 13.1 | 0.16 | 6.9 | 24.5 | 13.6 | 0.33 | 27.4 |
| 900 | 12 | -7.5 | 39.9 | 15.9 | 0.19 | 9.6 | 26.3 | 11.3 | 0.14 | 5.2 | 27.7 | 11.8 | 0.29 | 20.9 |
| 900 | 12 | 0 | 43.2 | 14.0 | 0.17 | 7.7 | 29.4 | 9.6 | 0.12 | 3.8 | 30.9 | 10.0 | 0.24 | 15.4 |
| 900 | 11 | 7.5 | 46.3 | 12.3 | 0.15 | 5.9 | 32.3 | 7.8 | 0.10 | 2.6 | 33.9 | 8.3 | 0.20 | 10.9 |
| 900 | 11 | 15 | 49.3 | 10.6 | 0.13 | 4.5 | 34.9 | 6.1 | 0.07 | 1.6 | 36.7 | 6.7 | 0.16 | 7.2 |
| 1590 | 33 | -15 | 26.7 | 25.3 | 0.31 | 23.5 | 15.8 | 18.7 | 0.23 | 13.5 | 17.1 | 19.5 | 0.47 | 54.8 |
| 1590 | 32 | -7.5 | 30.9 | 22.7 | 0.28 | 19.1 | 19.8 | 16.1 | 0.20 | 10.2 | 21.1 | 16.9 | 0.41 | 41.8 |
| 1590 | 31 | 0 | 35.0 | 20.1 | 0.25 | 15.1 | 23.7 | 13.6 | 0.17 | 7.4 | 25.1 | 14.4 | 0.35 | 30.8 |
| 1590 | 30 | 7.5 | 39.0 | 17.6 | 0.22 | 11.7 | 27.5 | 11.2 | 0.14 | 5.1 | 29.0 | 12.0 | 0.29 | 21.7 |
| 1590 | 29 | 15 | 42.8 | 15.1 | 0.19 | 8.8 | 31.1 | 8.8 | 0.11 | 3.2 | 32.7 | 9.6 | 0.23 | 14.3 |
| 2280 | 65 | -15 | 20.9 | 31.3 | 0.38 | 35.4 | 11.5 | 23.0 | 0.28 | 20.1 | 12.7 | 24.1 | 0.59 | 82.8 |
| 2280 | 63 | -7.5 | 25.6 | 28.0 | 0.34 | 28.6 | 16.0 | 19.9 | 0.24 | 15.2 | 17.3 | 21.0 | 0.51 | 63.1 |
| 2280 | 61 | 0 | 30.2 | 24.9 | 0.31 | 22.7 | 20.4 | 16.8 | 0.20 | 11.0 | 21.7 | 17.9 | 0.43 | 46.5 |
| 2280 | 59 | 7.5 | 34.6 | 21.8 | 0.27 | 17.6 | 24.7 | 13.8 | 0.17 | 7.6 | 26.1 | 14.9 | 0.36 | 32.7 |
| 2280 | 57 | 15 | 39.0 | 18.7 | 0.23 | 13.2 | 28.8 | 10.8 | 0.13 | 4.8 | 30.3 | 11.9 | 0.29 | 21.5 |

Capacity of CWW 400-3-2,5 / CFW 400-3-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 900 | 11 | -15 | 58.6 | 25.3 | 0.31 | 18.0 | 40.6 | 19.1 | 0.23 | 10.7 | 40.5 | 19.1 | 0.46 | 40.4 |
| 900 | 11 | -7.5 | 60.2 | 22.6 | 0.28 | 14.5 | 42.1 | 16.6 | 0.20 | 8.2 | 42.0 | 16.6 | 0.40 | 30.7 |
| 900 | 11 | 0 | 61.7 | 20.1 | 0.25 | 11.5 | 43.3 | 14.1 | 0.17 | 6.0 | 43.4 | 14.1 | 0.34 | 22.6 |
| 900 | 10 | 7.5 | 63.1 | 17.6 | 0.22 | 9.0 | 44.4 | 11.7 | 0.14 | 4.2 | 44.7 | 11.8 | 0.29 | 16.0 |
| 900 | 10 | 15 | 64.3 | 15.2 | 0.19 | 6.8 | 45.3 | 9.3 | 0.11 | 2.8 | 45.9 | 9.5 | 0.23 | 10.7 |
| 1590 | 26 | -15 | 48.6 | 38.6 | 0.47 | 40.6 | 32.8 | 29.0 | 0.35 | 23.9 | 33.3 | 29.3 | 0.71 | 92.4 |
| 1590 | 25 | -7.5 | 51.1 | 34.6 | 0.42 | 32.8 | 35.1 | 25.1 | 0.31 | 18.1 | 35.6 | 25.5 | 0.62 | 70.3 |
| 1590 | 25 | 0 | 53.4 | 30.7 | 0.38 | 26.0 | 37.2 | 21.4 | 0.26 | 13.3 | 37.8 | 21.7 | 0.53 | 51.8 |
| 1590 | 24 | 7.5 | 55.6 | 26.9 | 0.33 | 20.2 | 39.2 | 17.7 | 0.22 | 9.3 | 39.9 | 18.1 | 0.44 | 36.5 |
| 1590 | 23 | 15 | 57.6 | 23.2 | 0.29 | 15.3 | 40.9 | 14.1 | 0.17 | 6.0 | 41.8 | 14.6 | 0.35 | 24.2 |
| 2280 | 51 | -15 | 41.9 | 49.5 | 0.61 | 65.8 | 27.6 | 37.1 | 0.45 | 38.3 | 28.3 | 37.8 | 0.92 | 150.7 |
| 2280 | 49 | -7.5 | 44.9 | 44.4 | 0.54 | 53.1 | 30.5 | 32.1 | 0.39 | 29.0 | 31.2 | 32.8 | 0.80 | 114.6 |
| 2280 | 47 | 0 | 47.8 | 39.4 | 0.48 | 42.1 | 33.2 | 27.3 | 0.33 | 21.2 | 34.0 | 28.0 | 0.68 | 84.4 |
| 2280 | 45 | 7.5 | 50.5 | 34.5 | 0.42 | 32.7 | 35.7 | 22.6 | 0.27 | 14.8 | 36.6 | 23.3 | 0.57 | 59.5 |
| 2280 | 44 | 15 | 53.1 | 29.8 | 0.37 | 24.7 | 38.0 | 18.0 | 0.22 | 9.6 | 39.1 | 18.8 | 0.46 | 39.4 |

Capacity of CWW 500-2-2,5 / CFW 500-2-2,5

| Water temp. | | | in/out 80°C/60°C | | | | in/out 60°C/40°C | | | | in/out 55°C/45°C | | | |
|-------------------|-----------------|-----------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|------------------|--------|------------|-------------------|
| Air flow | Air press. drop | Inlet air temp. | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop | Outlet air temp. | Output | Water flow | Water press. drop |
| m ³ /h | Pa | °C | °C | kW | l/s | kPa | °C | kW | l/s | kPa | °C | kW | l/s | kPa |
| 1400 | 14 | -15 | 34,8 | 26,6 | 0,33 | 16,9 | 21,8 | 19,7 | 0,24 | 9,5 | 23,2 | 20,4 | 0,50 | 39,1 |
| 1400 | 14 | -7,5 | 38,4 | 23,8 | 0,29 | 13,6 | 25,1 | 17,0 | 0,21 | 7,2 | 26,6 | 17,7 | 0,43 | 29,7 |
| 1400 | 13 | 0 | 41,8 | 21,1 | 0,26 | 10,8 | 28,3 | 14,3 | 0,17 | 5,2 | 29,9 | 15,1 | 0,37 | 21,8 |
| 1400 | 13 | 7,5 | 45,0 | 18,5 | 0,23 | 8,3 | 31,3 | 11,7 | 0,14 | 3,5 | 33,0 | 12,5 | 0,30 | 15,2 |
| 1400 | 13 | 15 | 48,1 | 15,9 | 0,20 | 6,2 | 34,0 | 9,1 | 0,11 | 2,2 | 36,0 | 10,1 | 0,24 | 10,0 |
| 2450 | 38 | -15 | 25,3 | 37,7 | 0,46 | 33,0 | 14,6 | 27,8 | 0,34 | 18,5 | 16,0 | 29,0 | 0,70 | 77,3 |
| 2450 | 37 | -7,5 | 29,6 | 33,7 | 0,41 | 26,7 | 18,8 | 23,9 | 0,29 | 13,9 | 20,2 | 25,2 | 0,61 | 58,8 |
| 2450 | 36 | 0 | 33,8 | 29,9 | 0,37 | 21,1 | 22,8 | 20,2 | 0,25 | 10,0 | 24,3 | 21,5 | 0,52 | 43,1 |
| 2450 | 35 | 7,5 | 37,9 | 26,2 | 0,32 | 16,3 | 26,7 | 16,5 | 0,20 | 6,8 | 28,2 | 17,9 | 0,43 | 30,2 |
| 2450 | 33 | 15 | 41,8 | 22,5 | 0,28 | 12,2 | 30,4 | 12,9 | 0,16 | 4,3 | 32,1 | 14,3 | 0,35 | 19,7 |
| 3500 | 74 | -15 | 19,7 | 46,4 | 0,57 | 49,4 | 10,5 | 34,1 | 0,41 | 27,5 | 11,8 | 35,8 | 0,87 | 116,3 |
| 3500 | 71 | -7,5 | 24,5 | 41,5 | 0,51 | 39,9 | 15,1 | 29,4 | 0,36 | 20,7 | 16,4 | 31,1 | 0,75 | 88,4 |
| 3500 | 69 | 0 | 29,1 | 36,8 | 0,45 | 31,5 | 19,6 | 24,8 | 0,30 | 14,9 | 21,0 | 26,5 | 0,64 | 64,9 |
| 3500 | 67 | 7,5 | 33,7 | 32,2 | 0,40 | 24,3 | 24,0 | 20,3 | 0,25 | 10,1 | 25,4 | 22,1 | 0,54 | 45,4 |
| 3500 | 65 | 15 | 38,1 | 27,7 | 0,34 | 18,2 | 28,2 | 15,9 | 0,19 | 6,3 | 29,8 | 17,7 | 0,43 | 29,6 |

Regulators



AQUA24TF



RC



RC-DO



OPTIGO OP10

AQUA

Complete regulator with built-in room sensor. Floating control for controlling three-position actuators. Cascade connection with minimum limit for room temperature control. Can be equipped with external room and/or duct sensor and external setpoint adjustment. Temperature range 0 - 30°C, depending on the sensor employed.

AQUA24TF

24V supply. The regulator has a built-in controlling anti-freeze protection with two alarm relays and automatic control for heating during stoppage.

REGIO MINI

Complete regulator with built-in room sensor. Can be equipped with external room and/or duct sensors. Has two control outputs, e.g. for heating and cooling in sequence.

RC

24V supply. 0...10V output control signal. DIP switches are used for basic 20 - 26°C setpoint setting. The basic setting can be adjusted by $\pm 3^\circ\text{C}$ by means of the setpoint knob.

RC-DO

24V supply. 0...10V output control signal. The RC-DO has a back-lit display and a temperature range of 0 - 50°C.

OPTIGO

Regulator with display. One knob for all settings. For mounting on DIN rail. Operates with PT1000 sensor in the range of -20°C to $+40^\circ\text{C}$. Started/stopped with "run" signal from the fan.

OP5

24V supply. 0...10V control signal output. Operates with one sensor (room or duct sensor). Can be reset for heating or cooling control.







OP10

24V supply. Can be reset for 0...10V control signal output or 3-point control. Two control outputs, e.g. for heating and cooling in sequence. Input for two sensors and anti-freeze sensor. Supply air temperature control or room temperature control with cascade-controlled supply air. Anti-freeze control with heating during stoppage. Output, e.g. for starting/stopping of fans via 230V~, 5A relay. Programmable one-week timer for controlling of both fan and heating/cooling. Terminal for external timer that extends the operating time. Can be equipped with external setpoint adjuster.






OP10-230

Same functions as the OP10, but with 230V~ supply.

Accessories for AQUA

| | Product | Range | Design |
|---|---|--------|--|
|  | Duct sensor TG-K330 | 0-30°C | Degree of protection IP20 |
|  | Room sensor TG-R430 with setpoint adjustment | 0-30°C | Degree of protection IP30 |
|  | Room sensor TG-R530 | 0-30°C | Degree of protection IP30 |
|  | Room sensor TG-R630 | 0-30°C | Degree of protection IP54 |
|  | Direct-contact sensor TG-A130 Delivered with clamp. | 0-30°C | Degree of protection IP65 |
|  | Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side. | | Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44 |

Accessories for OPTIGO and REGIO

| | Product | Range | Design |
|---|---|--------------|--|
|  | Duct sensor TG-K3/PT1000 | -30...+70°C | Degree of protection IP20 |
|  | Room sensor TG-R5/PT1000 | 0-50°C | Degree of protection IP30 |
|  | Room sensor TG-UH/PT1000 | -30...+120°C | Degree of protection IP65 |
|  | Direct-contact sensor TG-A130 Delivered with clamp. | -30...+150°C | Degree of protection IP65 |
|  | Trafo 60 Totally enclosed transformer for wall mounting. Built-in two- pole fuse on secondary side. | | Primary voltage 230V~ Secondary voltage 24V~ Max. rating 60 VA Degree of protection IP44 |

Actuators and valves for KVS 0.25 – 8.0 (110°C max)

| Description | | Type |
|---|------|------------|
| 3-position actuator for ZTV/ZTR valves, degree of protection IP44 | | RVAZ4-24 |
| Actuator for 0...10V signal for ZTV/ZTR valves, degree of protection IP44 | | RVAZ4-24A |
| Description | Kv | Type |
| 2-way ½" valve | 0.25 | ZTV15-0.25 |
| 2-way ½" valve | 0.4 | ZTV15-0.4 |
| 2-way ½" valve | 0.6 | ZTV15-0.6 |
| 2-way ½" valve | 1.0 | ZTV15-1.0 |
| 2-way ½" valve | 1.6 | ZTV15-1.6 |
| 2-way ¾" valve | 2.0 | ZTV20-2.0 |
| 2-way ¾" valve | 2.5 | ZTV20-2.5 |
| 2-way ¾" valve | 4.0 | ZTV20-4.0 |
| 2-way ¾" valve | 6.0 | ZTV20-6.0 |
| 2-way 1" valve | 8.0 | ZTVB25-8.0 |
| 3-way ½" valve | 0.25 | ZTR15-0.25 |
| 3-way ½" valve | 0.4 | ZTR15-0.4 |
| 3-way ½" valve | 0.6 | ZTR15-0.6 |
| 3-way ½" valve | 1.0 | ZTR15-1.0 |
| 3-way ½" valve | 1.6 | ZTR15-1.6 |
| 3-way ¾" valve | 2.0 | ZTR20-2.0 |
| 3-way ¾" valve | 2.5 | ZTR20-2.5 |
| 3-way ¾" valve | 4.0 | ZTR20-4.0 |
| 3-way ¾" valve | 6.0 | ZTR20-6.0 |
| 3-way 1" valve | 8.0 | ZTRB25-8 |



Actuator RVAZ4-24



Valve ZTV



Valve ZTR



Actuator RVAN5-24



Valve MTVS



Valve MTRS

Actuators and valves for KVS 1.0 – 16.0 (max 185°C)

| Description | | Type |
|---|------|-------------|
| 3-position actuator for MTVS/MTRS valves, degree of protection IP54 | | RVAN5-24 |
| Actuator for 0...10V signal for MTVS/MTRS valves, degree of protection IP54 | | RVAN5-24A |
| Description | Kv | Type |
| 2-way ½" valve | 1.0 | MTVS15-1.0 |
| 2-way ½" valve | 1.6 | MTVS15-1.6 |
| 2-way ½" valve | 2.1 | MTVS15-2.1 |
| 2-way ½" valve | 2.7 | MTVS15-2.7 |
| 2-way ¾" valve | 4.2 | MTVS20-4.2 |
| 2-way ¾" valve | 5.6 | MTVS20-5.6 |
| 2-way 1" valve | 10.0 | MTVS25-10 |
| 2-way 1 ¼" valve | 16.0 | MTVS32-16 |
| 3-way ½" valve | 0.63 | MTRS15-0.63 |
| 3-way ½" valve | 1.0 | MTRS15-1.0 |
| 3-way ½" valve | 1.6 | MTRS15-1.6 |
| 3-way ½" valve | 2.1 | MTRS15-2.1 |
| 3-way ½" valve | 2.7 | MTRS15-2.7 |
| 3-way ¾" valve | 4.2 | MTRS20-4.2 |
| 3-way ¾" valve | 5.6 | MTRS20-5.6 |
| 3-way 1" valve | 10.0 | MTRS25-10 |
| 3-way 1 ¼" valve | 16.0 | MTRS32-16 |

Guide for selection of valves and actuators for CWW / CFW heaters

110°C max. water temperature

Actuator RVAZ4-24 (3-position) or RVAZ4-24A (0...10V) can be used for all ZTV/ZTR valves.

| Type of CWW / CFW | Valve type | Kv |
|--------------------------------|------------------------------------|-----|
| CWW 100-2-2,5 | 2-way ZTV15-0.4 3-way ZTR15-0.4 | 0.4 |
| CWW 100-3-2,5 | 2-way ZTV15-0.4 3-way ZTR15-0.4 | 0.4 |
| CWW 125-2-2,5 CFW 125-2-2,5 | 2-way ZTV15-0.6 3-way ZTR15-0.6 | 0.6 |
| CWW 125-3-2,5 CFW 125-3-2,5 | 2-way ZTV15-0.4 3-way ZTR15-0.4 | 0.4 |
| CWW 160-2-2,5 CFW 160-2-2,5 | 2-way ZTV15-0.6 3-way ZTR15-0.6 | 0.6 |
| CWW 160-3-2,5 CFW 160-3-2,5 | 2-way ZTV15-0.4 3-way ZTR15-0.4 | 0.4 |
| CWW 200-2-2,5 CFW 200-2-2,5 | 2-way ZTV15-0.6 3-way ZTR15-0.6 | 0.6 |
| CWW 200-3-2,5 CFW 200-3-2,5 | 2-way ZTV15-1.0 3-way ZTR15-1.0 | 1.0 |
| CWW 250-2-2,5 CFW 250-2-2,5 | 2-way ZTV15-1.6 3-way ZTR15-1.6 | 1.6 |
| CWW 250-3-2,5 CFW 250-3-2,5 | 2-way ZTV15-1.6 3-way ZTR15-1.6 | 1.6 |
| CWW 315-2-2,5 CFW 315-2-2,5 | 2-way ZTV15-1.6 3-way ZTR15-1.6 | 1.6 |
| CWW 315-3-2,5 CFW 315-3-2,5 | 2-way ZTV15-1.6 3-way ZTR15-1.6 | 1.6 |
| CWW 400-2-2,5 CFW 400-2-2,5 | 2-way ZTV20-2.5 3-way ZTR20-2.5 | 2.5 |
| CWW 400-3-2,5 CFW 400-3-2,5 | 2-way ZTV20-2.5 3-way ZTR20-2.5 | 2.5 |
| CWW 500-2-2,5 CFW 500-2-2,5 | 2-way ZTV20-4.0 3-way ZTR20-4.0 | 4.0 |

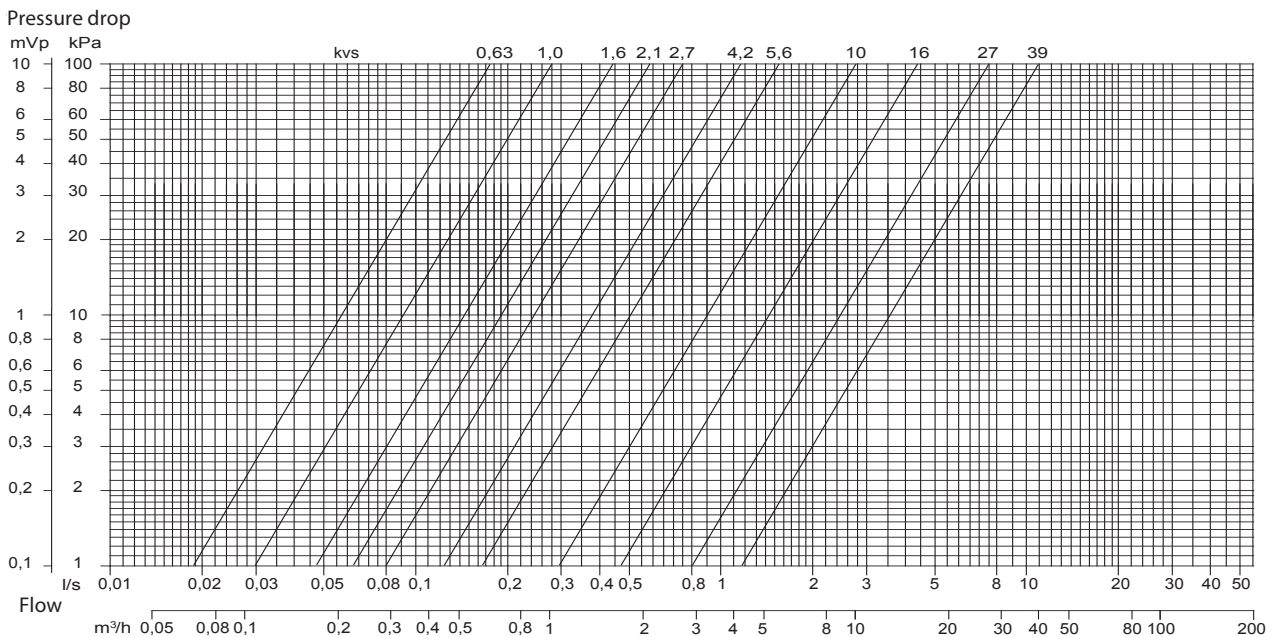
185°C max. water temperature

Actuator RVAN5-24 (3-position) or RVAN5-24A (0...10V) can be used for all MTRV/MTRS valves.

| Type of CWW / CFW | Valve type | Kv |
|--------------------------------|--------------------------------------|-----|
| CWW 100-2-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 100-3-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 125-2-2,5 CFW 125-2-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 125-3-2,5 CFW 125-3-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 160-2-2,5 CFW 160-2-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 160-3-2,5 CFW 160-3-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 200-2-2,5 CFW 200-2-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 200-3-2,5 CFW 200-3-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 250-2-2,5 CFW 250-2-2,5 | 2-way MTRV15-1.0 | 1.0 |
| CWW 250-3-2,5 CFW 250-3-2,5 | 2-way MTRV15-1.6 3-way MTRS15-1.6 | 1.6 |
| CWW 315-2-2,5 CFW 315-2-2,5 | 2-way MTRV15-1.6 3-way MTRS15-1.6 | 1.6 |
| CWW 315-3-2,5 CFW 315-3-2,5 | 2-way MTRV15-1.6 3-way MTRS15-1.6 | 1.6 |
| CWW 400-2-2,5 CFW 400-2-2,5 | 2-way MTRV15-2.1 3-way MTRS15-2.1 | 2.1 |
| CWW 400-3-2,5 CFW 400-3-2,5 | 2-way MTRV15-2.7 3-way MTRS15-2.7 | 2.7 |
| CWW 500-2-2,5 CFW 500-2-2,5 | 2-way MTRV15-2.7 3-way MTRS15-2.7 | 2.7 |

CWW / CFW

Pressure drops across valves





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