

CWK-S

- Circular cooler
- Cold water



Cold water batteries type CWK-S

Circular cold water cooling battery, easy to install and with a removable service panel allowing access for cleaning the coil

Application

- Zone cooling

Material

- Casing made of galvanised sheet steel with 9 mm synthetic cellular rubber anti-condensation insulation, the circular connections are equipped with an EPDM rubber.
- The coil consists of copper tubes with aluminium fins.
- Drip tray made from stainless steel.

Mounting

- Circular ducts

Accessoires

- 2 or 3-way regulation valves, type **QCV-2** or **QCV-3**

Text for tender

- The cooling coil shall be made out of copper tubes with aluminium fins, the copper tubes shall be positioned zig-zag this for an effective and economic cool transfer from the circulated cooling medium to the air. The casing of the cooling coil shall be made of galvanised steel sheet with 9 mm synthetic cellular rubber anti-condensation insulation the circular connections on the casing are equipped with a solid EPDM rubber. The casing of the cooling coil shall have a removable service panel this to inspect the coil and clean it.

Order example

CWK, 200 + N2, D10 + T24SR

Explanation

CWK = Type coldwater battery

200 = Diameter in mm, (see table)

Accessories

N2 = 2-way valve, **N3** = 3-way valve

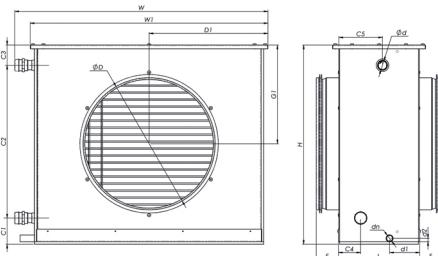
D10 = Connection diameter (selection made by means of the KVS value), (see table)

T24SR = Modulating valve actuator, **T24** = On/off valve actuator 24V, **T230** = On/off valve actuator 230V

| | Q [m³/h] | ΔP [Pa] | Technical data | | | | Tw 6/12 °C / RH 50% | Qw [l/s] | ΔPw [kPa] |
|-----------|----------|---------|----------------|---------|--------|-------|---------------------|----------|-----------|
| | | | Ti [°C] | Tu [°C] | P [kW] | | | | |
| CWK 100 S | 60 | 20 | 25 | 14.2 | 0.39 | 0.016 | 0.33 | | |
| | | 20 | 28 | 15.2 | 0.57 | 0.023 | 0.5 | | |
| | 110 | 38 | 25 | 15.2 | 0.46 | 0.018 | 0.39 | | |
| | | 38 | 28 | 16.4 | 0.68 | 0.027 | 0.6 | | |
| | 165 | 62 | 25 | 15.1 | 0.59 | 0.023 | 0.51 | | |
| | | 62 | 28 | 17.3 | 0.76 | 0.03 | 0.68 | | |
| CWK 125 S | 100 | 4 | 25 | 14.2 | 0.39 | 0.016 | 0.33 | | |
| | | 4 | 28 | 15.2 | 0.57 | 0.023 | 0.5 | | |
| | 200 | 14 | 25 | 15.5 | 0.63 | 0.025 | 0.55 | | |
| | | 14 | 28 | 18 | 0.73 | 0.03 | 1.17 | | |
| | 350 | 37 | 25 | 17.9 | 0.82 | 0.032 | 0.85 | | |
| | | 37 | 28 | 19 | 1.16 | 0.045 | 2.32 | | |
| CWK 160 S | 150 | 8 | 25 | 15.3 | 0.48 | 0.019 | 0.48 | | |
| | | 8 | 28 | 16.7 | 0.7 | 0.028 | 0.62 | | |
| | 250 | 20 | 25 | 16.4 | 0.72 | 0.028 | 0.63 | | |
| | | 21 | 28 | 18.7 | 0.8 | 0.032 | 1.25 | | |
| | 450 | 57 | 25 | 18.1 | 1.03 | 0.041 | 1.9 | | |
| | | 57 | 28 | 19.5 | 1.4 | 0.055 | 3.2 | | |
| CWK 200 S | 300 | 14 | 25 | 15.9 | 0.91 | 0.036 | 0.31 | | |
| | | 14 | 28 | 18 | 1.11 | 0.044 | 0.39 | | |
| | 500 | 34 | 25 | 17.9 | 1.19 | 0.047 | 0.43 | | |
| | | 34 | 28 | 19.2 | 1.46 | 0.057 | 0.54 | | |
| | 700 | 61 | 25 | 19 | 1.32 | 0.054 | 0.51 | | |
| | | 61 | 28 | 20.5 | 1.74 | 0.068 | 1.16 | | |
| CWK 250 S | 500 | 15 | 25 | 16.2 | 1.46 | 0.057 | 0.37 | | |
| | | 15 | 28 | 18.2 | 1.74 | 0.069 | 0.46 | | |
| | 750 | 30 | 25 | 17.8 | 1.8 | 0.071 | 0.48 | | |
| | | 30 | 28 | 19.1 | 2.22 | 0.088 | 0.61 | | |
| | 1100 | 58 | 25 | 19.1 | 2.15 | 0.084 | 0.59 | | |
| | | 58 | 28 | 19.8 | 2.97 | 0.116 | 1.57 | | |
| CWK 315 S | 800 | 16 | 25 | 17.1 | 2.09 | 0.082 | 0.8 | | |
| | | 16 | 28 | 18.2 | 3.25 | 0.128 | 2.62 | | |
| | 1200 | 32 | 25 | 17.8 | 2.86 | 0.113 | 2.11 | | |
| | | 33 | 28 | 19.1 | 4.36 | 0.172 | 4.35 | | |
| | 1600 | 54 | 25 | 18.3 | 3.55 | 0.14 | 3.06 | | |
| | | 54 | 28 | 19.8 | 5.24 | 0.207 | 6 | | |
| CWK 400 S | 1300 | 21 | 25 | 18.1 | 2.96 | 0.117 | 0.39 | | |
| | | 22 | 28 | 19.5 | 3.65 | 0.144 | 0.51 | | |
| | 1700 | 34 | 25 | 19.1 | 3.34 | 0.132 | 0.46 | | |
| | | 35 | 28 | 20.7 | 4.14 | 0.163 | 0.6 | | |
| | 2200 | 54 | 25 | 19.8 | 3.78 | 0.149 | 0.53 | | |
| | | 54 | 28 | 20.4 | 5.52 | 0.218 | 1.47 | | |
| CWK 500 S | 1700 | 10 | 25 | 16.4 | 4.88 | 0.192 | 0.24 | | |
| | | 10 | 28 | 18.3 | 5.57 | 0.219 | 0.29 | | |
| | 2500 | 19 | 25 | 17.9 | 5.92 | 0.233 | 0.31 | | |
| | | 19 | 28 | 19.2 | 7.31 | 0.288 | 0.41 | | |
| | 4500 | 54 | 25 | 19.8 | 7.7 | 0.304 | 0.44 | | |
| | | 54 | 28 | 21.7 | 9.44 | 0.372 | 0.58 | | |

Symbols & specifications

- Q = Air flow
- ΔP = Pressure loss
- Ti = Inlet air temperature
- Tu = Outlet air temperature
- P = Power of the battery
- Qw = Water flow
- ΔPw = Pressure loss of water
- Tw = Water temperature in/out
- RH = Relative humidity



| Dimensions | | | | | | | | | | | | | | | | | |
|------------|--------|--------|---------|--------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| L [mm] | W [mm] | H [mm] | ØD [mm] | d [mm] | dn [mm] | F [mm] | C1 [mm] | C2 [mm] | C3 [mm] | C4 [mm] | C5 [mm] | D1 [mm] | G1 [mm] | W1 [mm] | d1 [mm] | d2 [mm] | |
| CWK 100 S | 194 | 366 | 275 | 100 | 1/2" | 16 | 46 | 53 | 183 | 38 | 64 | 91 | 166 | 135 | 331 | 72 | 8 |
| CWK 125 S | 194 | 366 | 275 | 125 | 1/2" | 16 | 46 | 53 | 183 | 38 | 64 | 91 | 166 | 135 | 331 | 72 | 8 |
| CWK 160 S | 194 | 366 | 275 | 160 | 1/2" | 16 | 46 | 53 | 183 | 38 | 64 | 91 | 166 | 135 | 331 | 72 | 8 |
| CWK 200 S | 194 | 441 | 341 | 200 | 1/2" | 16 | 46 | 119 | 164 | 58 | 53 | 104 | 203 | 168 | 407 | 72 | 8 |
| CWK 250 S | 194 | 522 | 408 | 250 | 1/2" | 16 | 53 | 159 | 117 | 131 | 123 | 70 | 243 | 202 | 487 | 72 | 8 |
| CWK 315 S | 194 | 604 | 473 | 315 | 1/2" | 16 | 53 | 62 | 364 | 48 | 53 | 104 | 283 | 235 | 567 | 72 | 8 |
| CWK 400 S | 204 | 763 | 475 | 400 | 3/4" | 16 | 72 | 114 | 250 | 111 | 53 | 110 | 364 | 229 | 728 | 72 | 8 |
| CWK 500 S | 216 | 953 | 741 | 500 | 1" 1/4 | 16 | 72 | 73 | 610 | 58 | 58 | 116 | 455 | 368 | 909 | 72 | 8 |