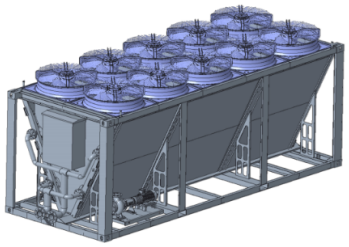
TC-DC1000 V-Type Dry Cooler, 1000 kW

Standard dry cooling unit for liquid-cooled data centers and process loops, rated at 40 °C ambient with a 55 / 49 °C glycol loop. Supplied as a standard model; coil, fan and control options can be customized.





Construction

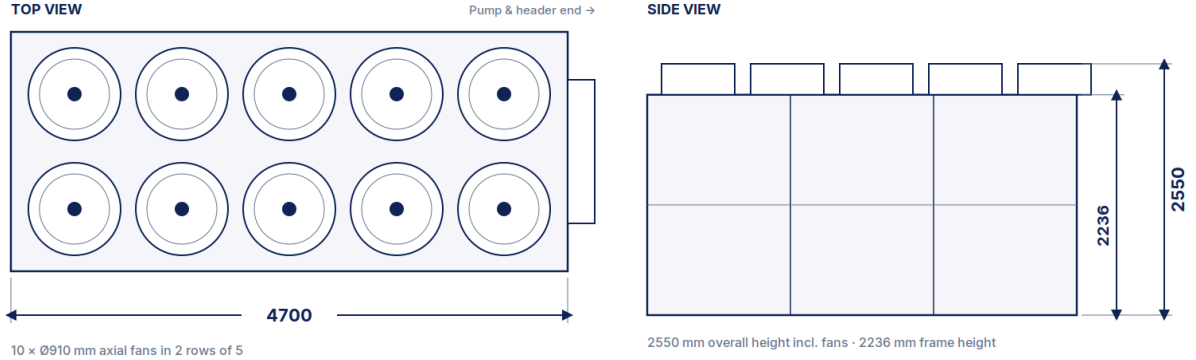
Configuration	**V-shaped coil, 2 coil halves, circulation pumps included**
Heat exchanger type	**Aluminum plate-fin, cross flow**
Heat rejection	**2 × ≥ 500 kW per coil half (incl. 20 % margin) · 1000 kW class**
Design ambient range	**−10 °C to 40 °C**
Coolant / outside medium	**EG30 (30 % ethylene glycol) / air**
Passes (inside / outside)	**2 / 1**
Coil half size (W × H × D)	**4500 × 2450 × 113 mm**
Coil half exchange area	**294 m² liquid side · 672 m² air side**
Overall length / height	**4700 mm / 2550 mm (frame 2236 mm)**
Unit mass	**approx. 3,900 kg (2 × 1,950 kg)**
Finish	**RAL 7035 light grey, coating > 80 µm**

Rated operating point

Liquid inlet / outlet	**55 °C / 49 °C**
Air inlet / outlet	**40 °C / 49.9 °C**
Liquid flow	**162 m³/h**
Air flow	**300,000 m³/h**
Pressure drop, liquid	**1.1 bar**
Pressure drop, air	**65 Pa**

Fan section

Fans	**10 × Ø910 mm axial**
Air flow per fan	**35,000 m³/h (±10 %)**
Static pressure	**250 Pa**
Speed	**1160 r/min**
Total fan power	**33 kW**
Power supply	**415 V / 3Ph / N / PE reference; voltage and frequency configured per project**
Fan operating temperature	**−40 °C to 70 °C**
Fan certification	**UL**



Performance stated at the listed operating point. Other conditions are confirmed by selection calculation at quotation; width, connections and lifting points are on the project drawing. Fan P-Q curve on request.