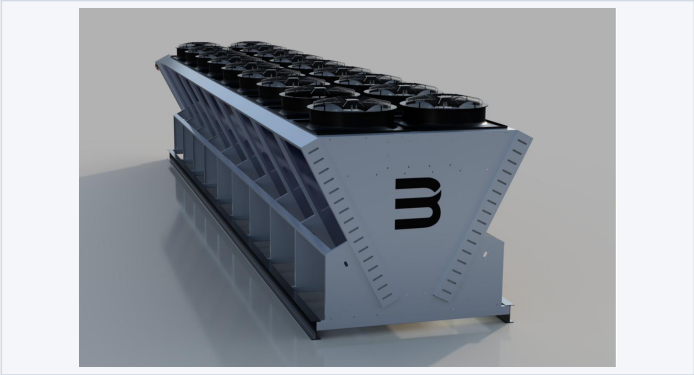
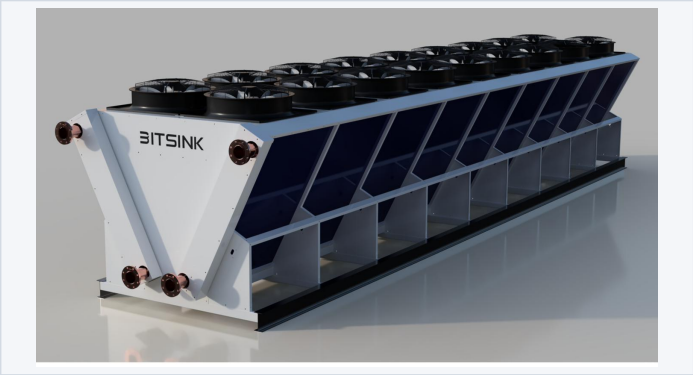


2160 kW Dry Cooler

V-FRAME Largest V-frame bank in the line for facility-scale heat rejection.



Front-face & rear views

GENERAL	
Rated heat rejection	2160 kW
Configuration	18 fans, V-frame
Orientation	V-frame, top-discharge

DIMENSIONS & CONSTRUCTION	
Overall L × W × H	480.0 in (L) × 87.5 in (W) × 99.1 in (H)
Overall (metric)	12.2 × 2.2 × 2.5 m
Dry weight	4,300 kg (9,480 lb)
Operating weight	5,140 kg (11,332 lb)
Housing material	Sheet metal, powder-coated white

CONNECTION & INTERFACE	
Fluid in/out	DN125 ANSI flange, OD133 copper (4 total)
Drain plug	2 × DN15 NPT internal-thread plug
Working fluid	Water (closed-loop, inhibited)
Power input	380/480 V – 3 Phase, 60 Hz

COIL & HEAT EXCHANGER	
Number of coils	2 (independent)
Coil internal volume	840 L (221.9 US gal)
Fin / tube material	Aluminum fin / copper tube
Tube spec	5/8 in (OD 15.88 mm) copper
Fin spec	0.12 mm blue hydrophilic Al, corrugated, 2.1 mm pitch
Coil geometry	4 rows × 50 holes × 11,700 mm
Header / connection tube	OD133 copper; welded flanges
Casing / side plate	2.0 mm galvanized steel

FAN DATA

Fan model	Krubo K-EC910-W460-10 (Ø910 mm EC axial)
Number of fans	18
Fan supply	3–460 VAC (380–480 V), 60 Hz
Fan speed	1,055 rpm
Airflow per fan	35,000 m ³ /h (free-air nominal)
Total fan airflow	630,000 m ³ /h (free-air)
Sound pressure per fan	87 dB(A) (LpA @ 1 m)
Power input per fan	2,120 W (2.9 A)
Total fan power input	38,160 W (38.16 kW)
Motor / protection	EC motor · IP54 · insulation Class F
Fan weight (each)	56 kg

THERMAL – RATED CAPACITY

Capacity	2160 kW
Global exchange coefficient	31 W/(m ² ·K)
DTML	10.0 °C

AIR SIDE (design)

Volumetric air flow	465,840 m ³ /h
Mass air flow	521,740 kg/h
Face velocity on coil	2.98 m/s
Outlet air temperature	47.1 °C
Air-side pressure drop	112 Pa
Partial exchange coeff (air)	80 W/(m ² ·K)

OPERATING ENVIRONMENT

Ambient temperature	–25 °C to +60 °C
Relative humidity	0 % to 95 % RH
Altitude	≤ 1,000 m

DESIGN CONDITIONS

Working fluid	Water (closed-loop, inhibited)
Inlet fluid temperature	50 °C (122 °F)
Water density	986 kg/m ³ (@ ~55 °C mean)
Water specific heat	4.18 kJ/(kg·K)
Water dynamic viscosity	0.50 mPa·s (@ 55 °C)
Water thermal conductivity	0.648 W/(m·K)
Water Prandtl number	3.2
Inlet air temperature	32 °C (89.6 °F)
Inlet air relative humidity	50.0 %
Inlet air density	1.12 kg/m ³
Altitude / pressure	0 m / 1.01 bar A (sea level)
Fouling factor	0.000000 (m ² ·K)/W (clean design)

FLUID SIDE (design)

Volumetric fluid flow	74.74 m ³ /h
Mass fluid flow	73,768 kg/h
Fluid velocity	1.85 m/s
Outlet fluid temperature	38 °C
Fluid-side pressure drop	205.00 kPa
Partial exchange coeff (fluid)	735 W/(m ² ·K)

OPTIONS & FEATURES

- Integrated electrical box with breakers (standard on turnkey packages).
- Crane lift points for rigging and set.
- Mounting brackets for container-top or side-by-side installation.
- BITSINK health-monitoring suite – fans, pumps, fluid level & temperature.