Alfa Laval Alfa-V VDD

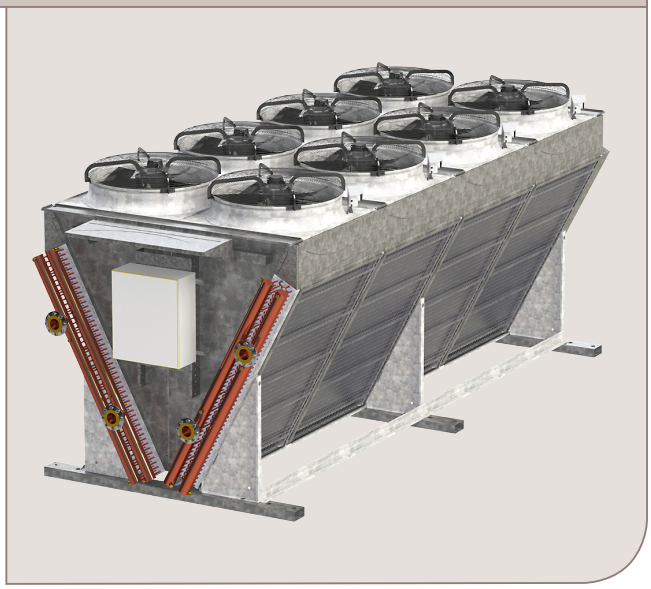
Industrial dry coolers V-type

General information & application

The Alfa-V VDD series is a wide range of heavy duty V-type dry coolers for air conditioning, refrigeration and various industrial applications such as water/glycol cooling or free cooling.
For industrial applications, dry coolers are suitable for closed circuit cooling of various process liquids in f.i. food, power, process and general industries. Alfa-V VDD dry coolers provide high capacities at reduced power consumption and a compact footprint.

Capacities*	100 up to 1800 kW

* water, EN1048.



Alfa-V VDD

Coil

An innovative coil design provides excellent heat transfer. In standard execution dry coolers are fitted with smooth copper tubing ø 12 and 16 mm (VDD) or stainless steel tubing 16 mm (VDDY). Fins in aluminium or sea water resistant AlMg, available in two fin designs:

Turbo fins	maximized capacity
Industrial fins	long lasting performance

Separate connections provide the opportunity for independent operation of both cooling coils.

Casing

Frame construction provides high rigidity for protection against vibration and thermal expansion. Casing, supports and frame made of corrosion resistant galvanized steel (class C4-H). Separated fan sections and removable fan rings.

Fan motors

ErP compliant fan AC & EC motors, available in three fan diameters (800, 910 & 1000 mm) and five noise levels.
Motors with external rotor, protection class IP 54 according to DIN 40050.
AC power supplies 400/50/3, 400/60/3 and 460/60/3 with integrated thermo contacts to provide reliable protection against thermal overload. EC power supply 380-480/50-60/3.

ErP compliant

Design pressure

Design pressure 6 bar. Each heat exchanger is leak tested with dry air.

Benefits

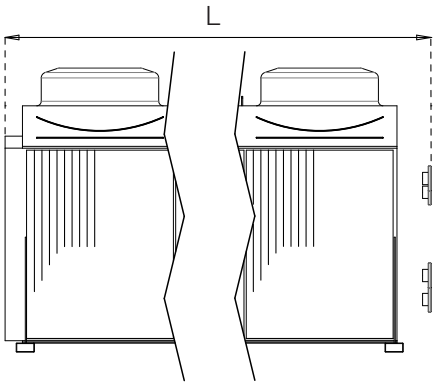
- Heavy duty design with high corrosion resistance.
- Favorable capacity/footprint ratio.
- Available with easily cleanable industrial fins.
- Excellent sound characteristics.
- Reliable performance, Eurovent certified.
- Easy installation & maintenance.
- Energy efficient - low total cost of ownership.
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code).

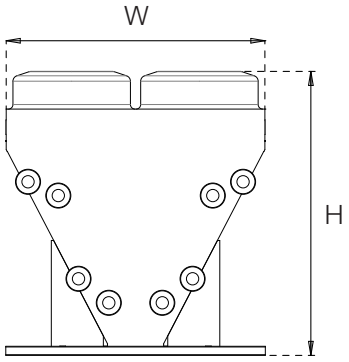
VDD

Options

- Non-standard fin spacing (up to 3.2 mm)
- Coil corrosion protection
  - Epoxy coated aluminium fins (EP)
  - F-coat (FC)
  - Blygold coating (BY)
  - Seawater resistant aluminium AlMg (SWR)
- Coil protection grid (GR)
- Spray water device kit (KW)
- Casing coated RAL 9002
- Container skid (SK)
- Vibration dampers (VD)
- Expansion tank (ET)
- Special fan motors
  - Protection class IP55
  - High-temperature motors
- Electrical options
  - Isolating switch (SW)
  - Motors wired to a common terminal box (CB)
  - Switchboard IP55 (B)
  - Fan step control cabinet (BP/BSP)
  - EC fan speed control cabinet (IMC)

Nr. of fan pairs	Dimensions mm		
	L	H	W
2	2940	2500	2230
3	4250	2500	2230
4	5560	2500	2230
5	6870	2500	2230
6	8190	2500	2230
7	9490	2500	2230
8	10800	2500	2230
9	12100	2500	2230





Code description

VDD	S(E)	90	4	.1	B	D	SK	*	-	AL	2.1	CU	*
1	2	3	4	5	6	7	8	9		10	11	12	13

1 Alfa-V dry cooler (VDD = standard Cu tube, VDD6 = 5/8" Cu, VDDY = 5/8" SS304)
2 Sound level/fan code (T=turbo, S-standard, L=low, Q=quiet, R=residential, E=EC fan motor)
3 Fan diameter (80=800 mm, 90=910, 100=1000 mm)
4 Number of fan pairs (2 to 9)
5 Alfa-V series II
6 Tube rows code (A, B, C, D)
7 Fan motor connection (D=delta, Y=star)
8 Packing (SK=container skid)
9 Electrical options
10 Fin material/coating (AL=aluminium, IF=industrial fins, SWR=AlMg, EP=epoxy coated aluminium, FC=F-coat, BY=Blygold)
11 Fin spacing (2.1, 2.3, 2.5, 3.0 and 3.2 mm)
12 Tube material (CU=copper, SS=stainless steel)
13 Options

Selection

Selection and pricing is to be performed with our Alfa Laval air heat exchanger selection software. Selection output includes all relevant technical data and dimensional drawings.

Certifications

All VDD dry cooler models are “Eurovent Certify All” certified. The Alfa Laval quality system is in accordance with ISO 9001 and ISO 14001. All products are manufactured according to CE and PED regulations.

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How to contact Alfa Laval
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