



Alfa Laval Alfa-V ACV/ANV

Industrial condensers V-type

General information & application

The Alfa Laval Alfa-V series is a wide range of heavy duty V-type condensers for air conditioning and refrigeration applications. Alfa-V air-cooled condensers provide high capacities at a modest footprint.

Refrigerants	all halocarbon (ACV) or ammonia (ANV)
Capacities H(C)FC*	115 up to 1850 kW
Capacities NH ₃ *	97 up to 1890 kW

* Nominal capacities (T_{air} = 25°C, T_{cond} = 40°C, T_{subcool} < 3K, T_{superheating} = 25K).

Coil

An innovative coil design provides excellent heat transfer at minimal refrigerant charge. Depending on the application, condensers are fitted with cross-fin copper (ACV) or smooth stainless steel tubing (ANV). Standard fin spacing 2.1 mm, available with two Alu-fin types:

Turbo fins	maximized capacity
Industrial fins	long lasting performance

Separate connections provide the opportunity for independent operation of both condenser 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.



Alfa-V ACV

Design pressure

Design pressure 33 bar (ACV) or 30 bar (ANV). Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

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 (ACV only).
- Easy installation & maintenance.
- Energy efficient - low total cost of ownership.
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code).



ACV

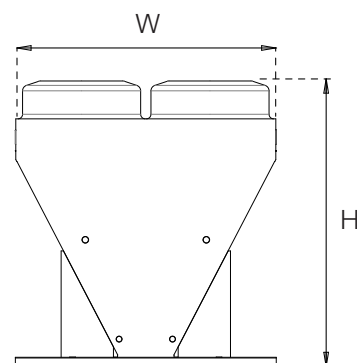
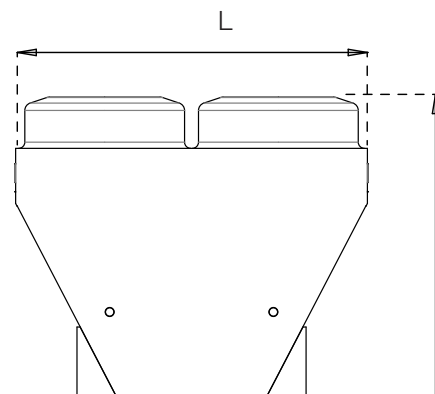


ANV

Options

- Sub-cooling circuit (SC)
- 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)
- 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

ACV	S(E)	80	3	1	B	D	SK	*	-	AL	2.1	CU	*
1	2	3	4	5	6	7	8	9		10	11	12	13

- Alfa Laval Alfa-V condenser (ACV=halocarbon, ANV=ammonia)
- Sound level/fan code (T=turbo, S=standard, L=low, Q=quiet, R=residential, E=EC fan motor)
- Fan diameter (80=800 mm, 90=910, 100=1000 mm)
- Number of fan pairs (2 to 9)
- Alfa-V series II
- Tube rows code (A, B, C, D)
- Fan motor connection (D=delta, Y=star)
- Packing (SK=container skid)
- Electrical options
- Fin material/coating (AL=aluminium, IF=industrial fins, SWR=AlMg, EP=epoxy coated aluminium, FC=F-coat, BY=Blygold)
- Fin spacing (2.1, 2.3, 2.5, 3.0 and 3.2 mm)
- Tube material (CU=copper, SS=stainless steel)
- 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 ACV condenser 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 PED regulations.



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How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com