Alfa-V ACV/ANV

Industrial condensers V-type

General information & application

The 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 1640 kW
Capacities NH_3*	97 up to 1682 kW

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

Alfa-V air cooled condensers

Coil

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

Turbo fins	maximized capacity
Industrial power fins	long lasting performance

Available in different fin thicknesses and fin spacings. 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 and framework of corrosion resistant pre-galvanized sheet steel (corrosion resistance class C4), epoxy coated white RAL 9002 on both sides. Separated fan sections. Supports in galvanized steel.

Fan motors

Available in three fan diameters (800, 910 & 1000 mm) and five noise levels, power supply 400/50/3. Motors with external rotor, protection class IP 54 according to DIN 40050. Integrated thermo contacts provide reliable protection against thermal overload. EC fan motors available.

Certifications

ACV models are “Eurovent Certify All” certified. The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED rules.

Test

Each heat exchanger undergoes a pressure and leak test with dry air at 34 barg. It is then supplied with nitrogen pre-charge.

Selection

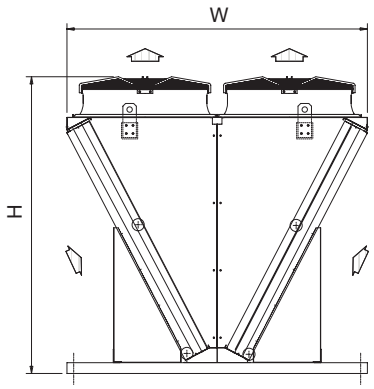
Please use our AlfaSelect Air selection software for condenser selection and RCPL pricing.

Selection & RCPL

AlfaSelect Air

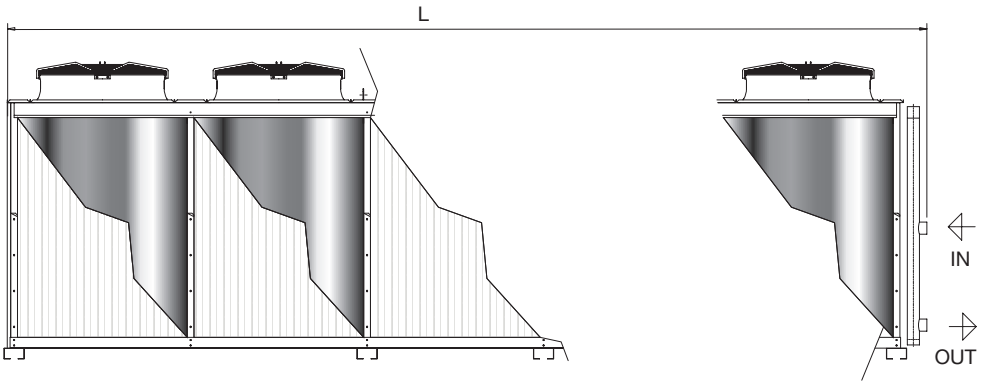
Stainless steel tubing for ammonia application (ANV)

Nr. of	Dimensions mm		
fan pairs	L	H	W
2	2940	2210	2230
3	4250	2210	2230
4	5560	2210	2230
5	6870	2210	2230
6	8190	2210	2230
7	9490	2210	2230
8	10800	2210	2230



Options

- Multi-circuiting
- Sub-cooling circuit
- Non-standard fin spacing
- Coil corrosion protection
  - Coil coating
  - Fins seawater resistant aluminium alloy 57S/5052
- Spray water device
- Vibration dampers
- Special fan motors
  - 480/3/60 (IP54)
  - EC fan motors
  - Protection class IP55
  - High-temperature motors
  - Explosion proof motors
- Electrical options
  - Isolating switch
  - Motors wired to a common terminal box
  - Switchboard (IP55)
  - EMC approval
  - Fan step control
  - Fan speed control
  - Frequency control



Code description

ACV S(E) 90 4 B D - options

- Options
- Fan speed connection (D=delta, Y=star)
- Coil size (B or C)
- Number of fans pairs (2 to 8)
- Fan diameter (80=800 mm, 90=910, 100=1000 mm)
- Sound level/fan code (T=high performance, S-standard, L=low, Q=quiet, R=residential, E=EC fan motor)
- Alfa-V condenser (ACV=halocarbon, ANV=ammonia)

Benefits

- Heavy duty design with high corrosion resistance
- Reduced refrigerant charge
- Favourable capacity/footprint ratio
- Available with easily cleanable industrial power fins
- Excellent sound characteristics, suitable for residential applications
- Reliable performance, Eurovent certified (ACV)
- Easy installation & maintenance.
- Energy efficient - low total cost of ownership.
- Two-year product guarantee.

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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

ДЕ 01

EUROVENT CERTIFIED PERFORMANCE
CERTIFY-ALL
DX Unit Air Coolers
Aircooled Condensers
Dry Coolers