



AlfaBlue BC & BN

Air-cooled condensers

General information & application

The AlfaBlue series is a wide range of heavy-duty air cooled condensers for air conditioning and refrigeration applications. AlfaBlue condensers are available for both horizontal and vertical air direction. Available both in single (M) or dual (D) fan row: separate connections in the dual fan row (D) models provide the opportunity for independent operation of both condenser coils. Dedicated serie for R290 (BCP) and R410A (BCH).

Refrigerants	all HFO/HFC (BC) or ammonia (BN)
Capacities BC*	56 up to 1069 kW
Capacities BN*	50 up to 960 kW

* Nominal capacities (Tair = 25°C, Tcond = 40°C, Tsubcool < 3K, Tsuperheating = 25K).

Finned coil

An innovative coil design provides excellent heat transfer at minimal refrigerant charge. Depending on the application, condensers are fitted with cross-fin copper (BC) or smooth stainless steel tubing (BN). Available with two Alu-fin types:

Turbo fins	maximized capacity				
Industrial power fins (IF)	long lasting performance				
Available in different fin thick	nesses and fin spacings.				

Construction

Frame construction provides high rigidity for protection against vibration and thermal expansion. Casing and frame made of corrosion resistant pre-galvanized sheet steel, epoxy coated white RAL 9002 on both sides. Separated fan sections.

Fan motors

High efficiency AC or EC fan motors, available in different fan diameters (800, 910 & 1000 mm) and noise levels, power supply 400/50/3. Motors with external rotor, protection class IP54 according to DIN 40050. Integrated thermo contacts provide reliable protection against thermal overload.

Options

- Mounting feet for vertical airflow available in 3 heights: 500, 850, 1200 mm
- Sub-cooling circuit (SC)
- Spray water kit (KW)
- Vibration dampers (VD)
- Hinged fan panels (HF)



AlfaBlue condensers

- Upon request fan motor options
 - 400V/3ph/60Hz
 - 480V/3ph/60Hz (IP54)
 - Protection class IP55
 - High-temperature motors
- Coil corrosion protection
 - Fins epoxy coated (EP)
 - Fins seawater resistant (SWR)
 - F-coat treatment (FC)
 - Copper fins (CU)
- Packing options
- Pallet (P)
- Protection pallet (PP) for dual fan row models
- Crate (CR) for single fan row models
- Container skid (SK)
- Benefits
- Heavy duty design with high corrosion resistance
- Reduced refrigerant charge
- Available with easily cleanable industrial power fins
- Excellent sound characteristics, suitable for residential applications
- Reliable performance, Eurovent certified (only for models included in Eurovent scope)
- Easy installation & maintenance
- · Energy efficient: low total cost of ownership
- Two-year product guarantee
- Easy access to additional on-line product information (QR code)



AlfaBlue BC



AlfaBlue BN



Dimensions

type	L*	W	Н		
B*M 801s	1880	1450	1270		
B*M 802s	3280	1450	1270		
B*M 803s	4680	1450	1270		
B*M 804s	6080	1450	1270		
B*M 805s	7480	1450	1270		
B*M 801	2230	1450	1270		
B*M 802	3980	1450	1270		
B*M 803	5730	1450	1270		
B*M 804	7480	1450	1270		
B*M 805	9230	1450	1270		
B*M 901	2580	1450	1314		
B*M 902	4680	1450	1314		
B*M 903	6780	1450	1314		
B*M 904	8880	1450	1314		
B*M 1001	2580	1450	1320		
B*M 1002	4680	1450	1320		
B*M 1003	6780	1450	1320		
B*M 1004	8880	1450	1320		
B*D 802	3980	2250	1270		
B*D 803	5730	2250	1270		
B*D 804	7480	2250	1270		
B*D 805	9230	2250	1270		
B*D 806	10980	2250	1270		
B*D 902	4680	2250	1314		
B*D 903	6780	2250	1314		
B*D 904	8880	2250	1314		
B*D 905	10980	2250	1314		
B*D 1002	4680	2250	1320		
B*D 1003	6780	2250	1320		
B*D 1004	8880	2250	1320		
B*D 1005	10980	2250	1320		

Dimensions B*M







900

W

Dimensions B*D





Electrical accessories
Switch on/off (SW)

Certifications

scope of the programme.

Design pressure

Selection

- Basic switchboard for AC fans (BS)

- Basic switchboard for EC fans (ECCB)

- EC fans full management system (ICM)



*: +60 mm for BN models

Code description

В	С	Μ	Ρ	S	Ε	80	2	s	.2	Α	D	CR	Feet	*	AL	2.1	CU	*
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

- 1 AlfaBlue condenser
- 2 Refrigerant (C=HFO/HFC, N=ammonia)
- 3 Number fan rows (M=1, D=2)
- 4 Dedicated series (blank=default, P=propane R290, H=R410A)
- 5 Sound level/fan code (T=turbo, S=standard, L=low, Q=quiet, R=residential)
- 6 EC fan (blank=AC fan, E=EC fan)
- 7 Fan diameter (80=800 mm, 90=910 mm, 100=1000 mm)
- 8 Number of fans per row (1 to 6)
- 9 Short coil module (blank=default, s= short coil module)
- 10 Version number
- 11 Tube rows code (A, B, C)
- 12 Fan motor connection (D=delta, Y=star)
- 13 Packing (P=pallet, PP=pallet with protection for headers and coil, CR=crate, SK=container skid)
- 14 Feet=mounting feet supplied mounted (type of feet according to airflow selected); blank=mounting feet supplied loose
- 15 Electrical accessories
- 16 Fin material/coating (AL=aluminium, IF=industrial fins, SWR=seawater resistant fins, EP=epoxy coated alu, FC=F-coat)
- 17 Fin spacing (2.1, 2.3, 2.5, 3.0 mm)
- 18 Tube material (CU=copper, SS=stainless steel)
- 19 Options

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- Connection box: for AC fans (CB), for EC fans (CBP), for EC fans

including master controller and pressure probe (CBMP)

- Basic switchboard for AC fans and step controller (BSP)

- Basic switchboard for EC fans and master controller (ECCBM)

The Alfa LU-VE quality system is in accordance with ISO

Eurovent certified performance for models included in the

9001. All products are manufactured according to PED rules.

Design pressure 33 bar for BC and BCP, 30 bar for BN and

45 bar for BCH. Each heat exchanger is leak tested with dry

Selection and pricing is to be performed with our Alfa LU-VE

includes all relevant technical data and dimensional drawings.

air heat exchanger selection software. Selection output

air and finally supplied with a nitrogen pre-charge.

How to contact Alfa LU-VE Up-to-date Alfa LU-VE contact details for all countries are always available on our website at alfa.luvegroup.com



