



AlfaBlue BCM / BCD

Air cooled condensers



AlfaBlue, BCM and BCD

Application

The Alfa Laval Condenser can be used in refrigeration and air conditioning equipment.

Heat exchanger

Innovative heat exchanger gives excellent heat transfer with minimized refrigerant charge, thanks to the new fins corrugation, developed by Alfa Laval, combined with advance cross fin tubes.

In the standard execution, heat exchanger manufactured from copper tubes and aluminium fins with spacing is 2.1 mm.

In the BCD, double connection provides opportunity for two completely independent heat exchangers.

Each heat exchanger undergoes a pressure and leaking test with dry air at 34 bar (Design pressure is 31 bar), and finally supplied with a nitrogen pre-charge.

Fan Motor

On the BCM, four different fan diameters are available: 630, 800, 910, 1000 mm; on the BCD, 800, 910, 1000 mm with three-phase motor 400V-50Hz. The motors are with external rotor, protection class IP54 according to DIN 40050. Integrated thermal protection by thermo contacts provides reliable protection against thermal overload.

These Axial Condensers BCM and BCD are available in five noise levels fan motor, (S) standard, (L) low, (Q) quiet, (R) residential and the new (T) high performance fan

Frame and Casework

Casework made with galvanized steel sheets painted (corrosion resistance class C4). New design frame provides high rigidity also for heavy applications. New system protects perfectly the heat exchanger tubes during transportation and operation against vibration and thermal expansion.

Support manufactured in galvanized steel, with optimised length to permit uniform air suction in the coil.

FEATURES AND BENEFITS

Footprint

- Optimised footprint with higher capacity

630, 800, 910 and 1000 mm fan

- More performance available
- Low power consumption fan motor
- More choice on noise level
- Flexible design

RAL 9002 all parts painted

- No cutting edge
- Higher corrosion resistance, double surface treatment

Coil design

- Increased heat transfer thanks to innovative fins corrugation

Casing

- Strong casing with new design

High energy efficiency

- Best performance with low energy consumption

OPTIONS

Non standard fin spacing

- For heavy dusty environments

Multi-circuits

- Split the capacity and connect more compressors

Sub-cooling circuit

- Additional circuit to cool more condensate

Coil treatment

- Useful for aggressive environments

Spray water device (only BCD)

- Possibility to select smaller units
- Keep the performance during the hot season

Vibration dumpers

- Useful to reduce vibrations

SPECIAL FANS

480/3 ph-60 Hz IP54

- High adaptability on every market

IP55

- High protection fan to be used in tropical or desert areas

High temperature electric motors

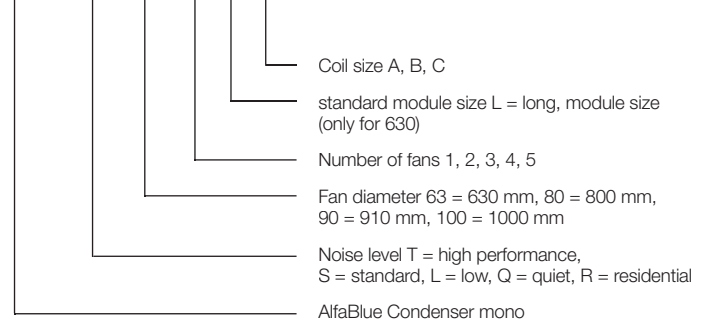
- Fans to be used when air temperature is over the temperature permitted using the standard fans

Explosion proof fan motor

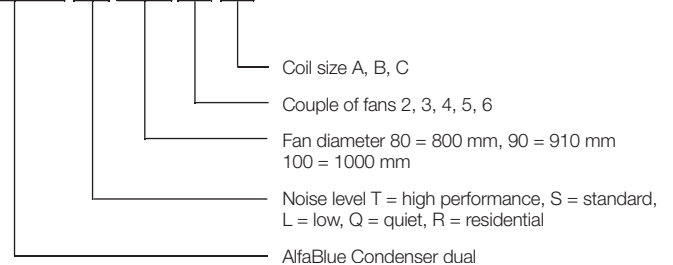
- Useful on hazardous environments (max. zone II)

Code description

BCM S 80 5 - B



BCD L 90 4 B



ELECTRICAL PARTS

Switch on/off

- Local safety switch wired to isolate the fan, EMC switch also available

Terminal box

- All fans are wired for an easy electrical connection

Switchboard

- Corrosion/Shock/Condensation/UV resistance
- Wide range of solutions
- Switchboard IP 55
- Vertical/horizontal installation

Cabling

- Ready for installation

EMC approval

- Units can run under frequency control

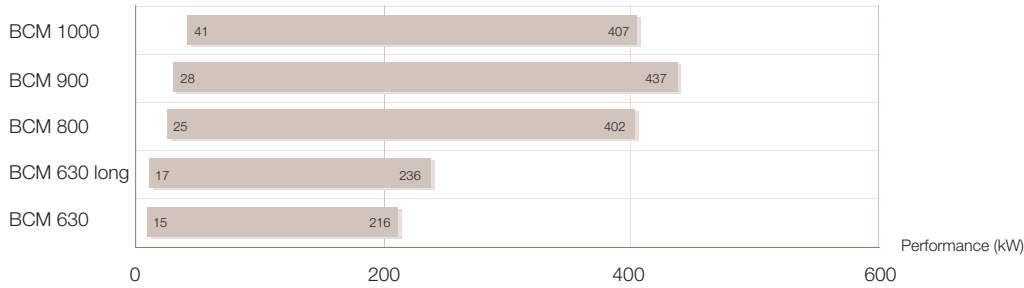
Fan step control

- Energy saving

Fan speed control

- Better control of performance
- Energy saving
- Noise reduction when air temperature is below design temperature
- Variable and fine control of velocity according to heat reject

BCM performance range (kW) and dimensions (mm)
(according to standard ENV 327)



Model	Dimensions (mm)	BCM 631	BCM 632	BCM 633	BCM 634
	W	1215	1215	1215	1215
BCM 630	L	1525	2615	3705	4795
	D	720	720	720	720

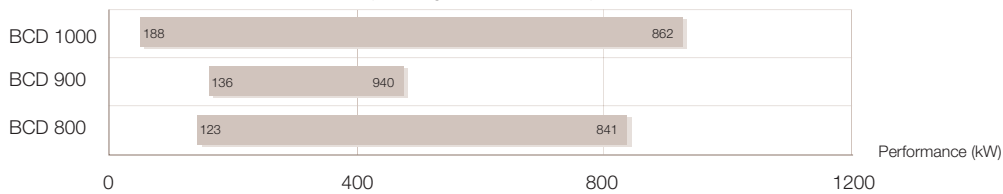
Model	Dimensions (mm)	BCM 631	BCM 632	BCM633
	W	1215	1215	1215
BCM 630L	L	1835	3235	4635
	D	720	720	720

Model	Dimensions (mm)	BCM 801	BCM 802	BCM 803	BCM 804	BCM 805
	W	1455	1455	1455	1455	1455
BCM 800	L	2185	3935	5685	7435	9185
	D	750	750	750	750	750

Model	Dimensions (mm)	BCM 901	BCM 902	BCM 903	BCM 404
	W	1455	1455	1455	1455
BCM 910	L	2535	4635	6735	8835
	D	790	790	790	790

Model	Dimensions (mm)	BCM 1001	BCM 1002	BCM 1003	BCM 1004
	W	1455	1455	1455	1455
BCM 100	L	2535	4635	6735	8835
	D	790	790	790	790

BCD performance range (kW) and dimensions (mm)
(according to standard ENV 327)

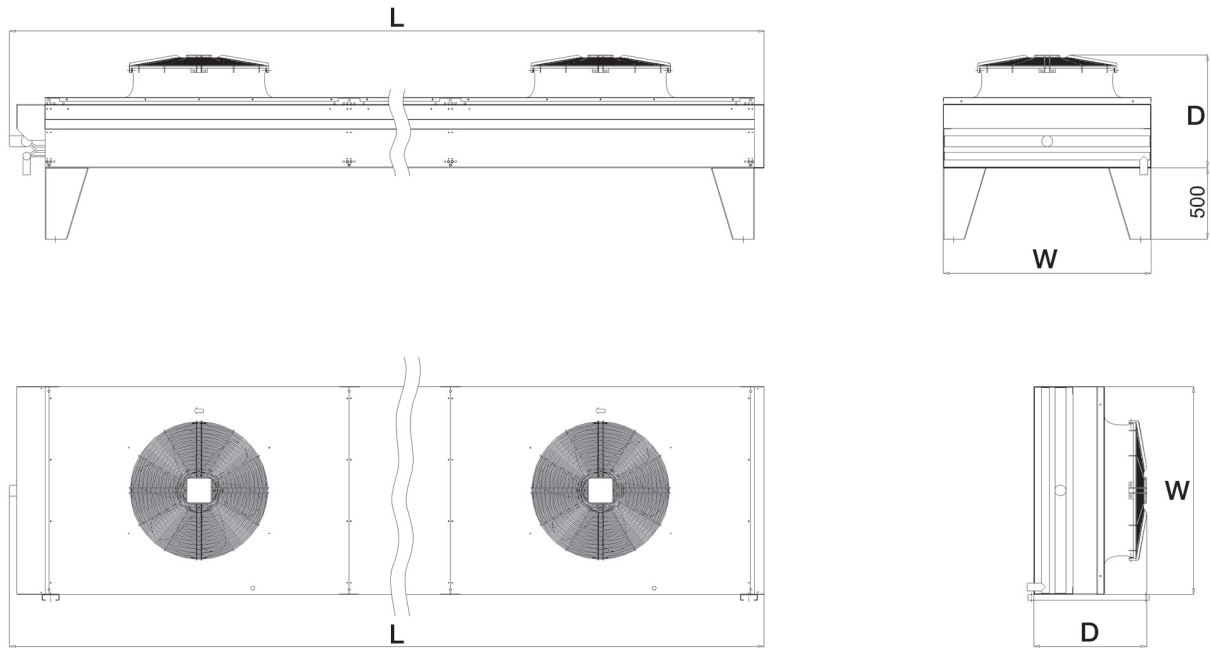


Model	Dimensions (mm)	BCD 802	BCD 803	BCD 804	BCD 805	BCD 806
	W	2290	2290	2290	2290	2290
BCD 800	L	3935	5685	7435	9185	10935
	D	750	750	750	750	750

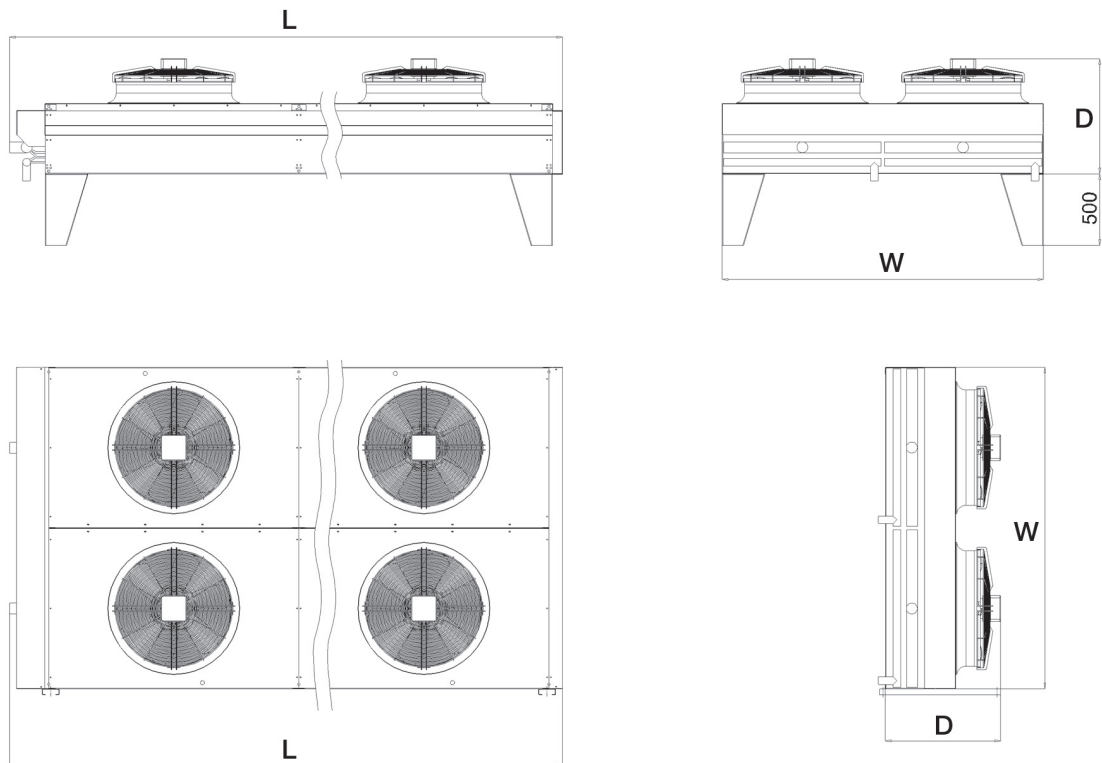
Model	Dimensions (mm)	BCD 902	BCD 903	BCD 904	BCD 905
	W	2290	2290	2290	2290
BCD 910	L	4635	6735	8835	10935
	D	790	790	790	790

Model	Dimensions (mm)	BCD 1002	BCD 1003	BCD 1004	BCD 1005
	W	2290	2290	2290	2290
BCD 1000	L	4635	6735	8835	10935
	D	790	790	790	790

Dimensions BCM



Dimensions BCD



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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



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