



AlfaBlue Reverse BRC, BRM, BRD and BRD6

Dry coolers



AlfaBlue Reverse BRC, BRM, BRD and BRD6

Application

The AlfaBlue Reverse Dry Coolers can be used in cooling of water or other in: Process and general Industry, Diesel & Biodiesel Gas power plants, Steel, Chemical and Food.

Heat exchanger

Innovative heat exchanger gives excellent heat transfer with minimized fluid volume. The BRC/BRM use the new geometry coil and are designed with one row of fan motors.

The BRD/BRD6 are combined with two different tube sizes and are designed with two rows of fan motors.

In the standard execution, the heat exchanger is made in aluminum fins and copper tubes (optional inox up to C coil size). The fin spacing is from 2.1 mm to 4 mm. Each connection is flanged using loose flanges (except when "termogardR" treatment is required). Single and Combined version coils (LT and HT). Each manifold provided with draining and venting nozzles. Each heat exchanger undergoes a pressure and leaking test with dry air at 10bar (Design pressure is 9bar).

Fan Motor

One fan diameter available: 910 mm blowing forced fan motors. Standard fan motors are 400V/3Ph - 50Hz. The motors are with external rotor, made in accordance with VDE 0530/12.84. Protection class IP 54 according to DIN 40050. Integrated thermal protection by thermo contacts provides reliable protection against thermal overload. Different motor types and number of poles to optimize the performance and minimize the noise level (T high performance fan, S standard, L low, Q quiet).

Frame and Casework

Casework and supports for horizontal installation made of galvanized steel sheets (optional: double painted).

Design frame provides high rigidity also for heavy applications. Feet supports are manufactured in galvanized steel, designed to optimized air flow through the coil. Coil accessible and fan motors removable for heat exchanger washing. Coil's grid protection (optional).

FEATURES AND BENEFITS

- 910 mm fan diameter
- More performance available
- Low power consumption fan motor
- More choice on noise level
- Flexible design
- No cut edge
- Higher corrosion resistance class (C4),
- Longer product life

Coil design

- Increased heat transfer thanks to innovative fins corrugation

- Flanges in Aluminium (UNI EN 1092-4) and Stainless Steel welding neck (UNI EN 1092-1)
- Easy and accurate piping connection
- Faster installation

Casing

- Strong casing with new design

High energy efficiency

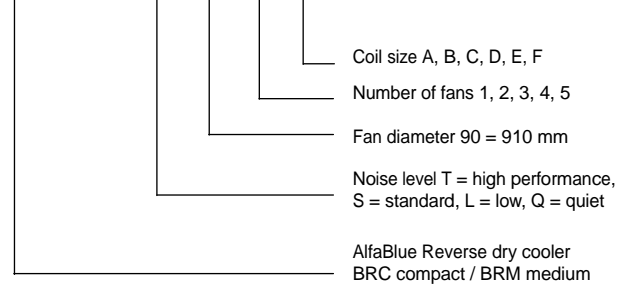
- Best performance with low energy consumption

OPTIONS

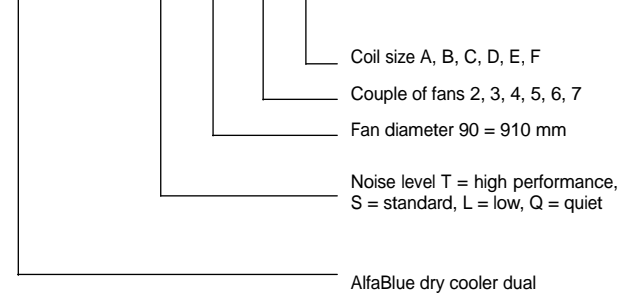
- Non standard fin spacing
- For heavy dusty environments
- Coil treatment
- Useful for aggressive environments
- Corrosion resistance
- Possibility to select smaller units
- Vibration dumpers
- Useful to reduce vibrations
- Coil's grid protection

Code description

BRC/BRM S 90 5 B



BRD/BRD6 L 90 4 B



ELECTRICAL PARTS

Switch on/off

- Local safety switch wired to isolate the fan
- Local safety switch EMC wired to isolate the fan

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

Design for frequency converter

- Units can run under frequency control (when air temperature is below the design it permits energy saving, noise reduction and longer fan motor lifetime)

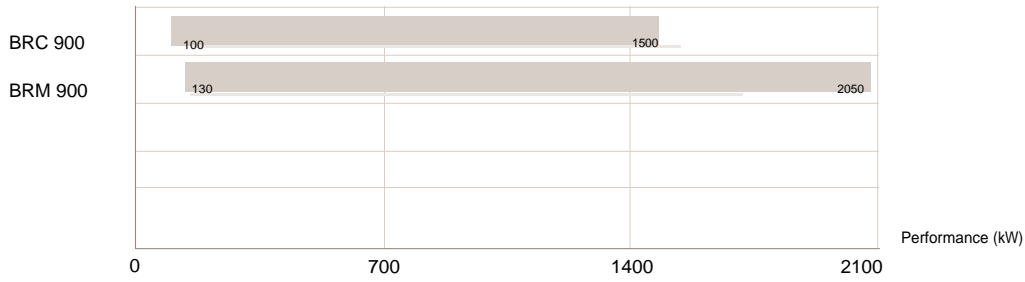
Fan step control

- Energy saving
- Cheap outlet temperature controller

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

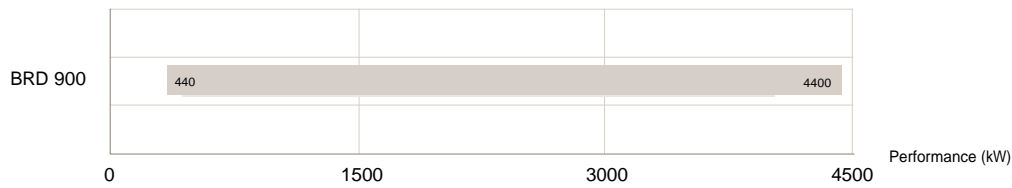
BRC/BRM performance range (kW) and dimensions (mm)



| Model | Dimensions (mm) | BRC 901 | BRC 902 | BRC 903 | BRC 904 | BRC 905 |
|---------|-----------------|---------|---------|---------|---------|---------|
| BRC 900 | W | 1256 | 1256 | 1256 | 1256 | 1256 |
| | L | 2200 | 4000 | 5800 | 7600 | 9400 |
| | D | 830 | 830 | 830 | 830 | 830 |

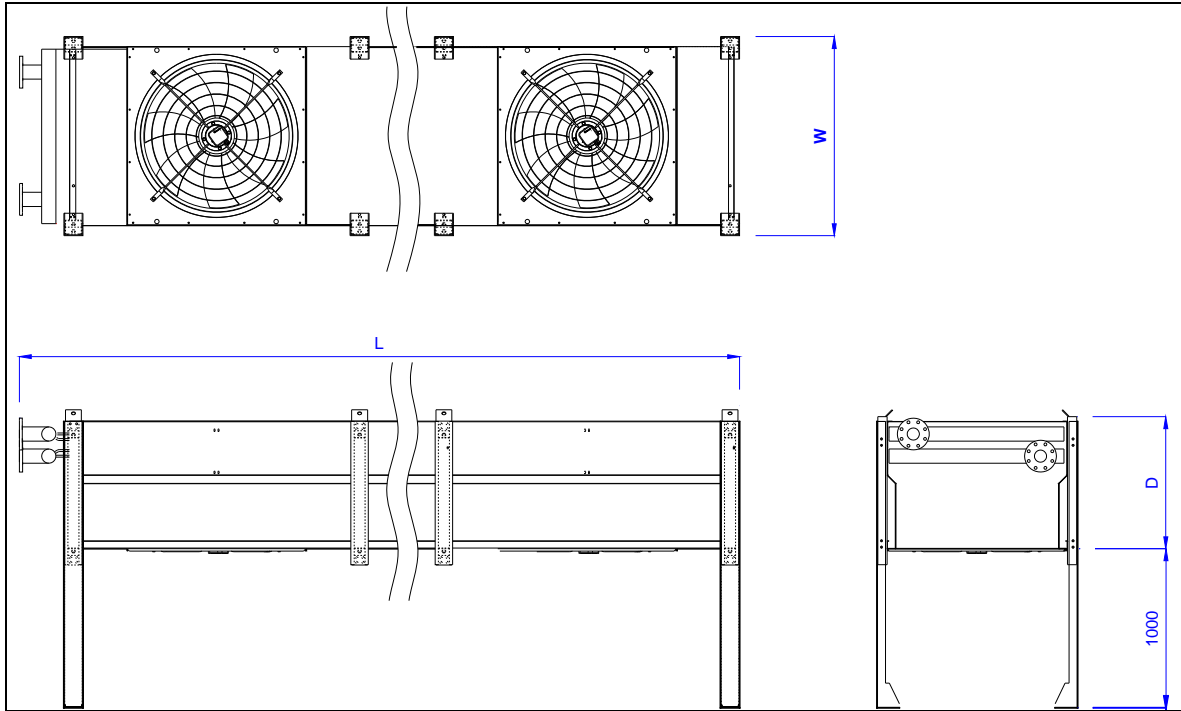
| Model | Dimensions (mm) | BRM 901 | BRM 902 | BRM 903 | BRM 904 | BRM 905 |
|---------|-----------------|---------|---------|---------|---------|---------|
| BRM 900 | W | 1736 | 1736 | 1736 | 1736 | 1736 |
| | L | 2200 | 4000 | 5800 | 7600 | 9400 |
| | D | 830 | 830 | 830 | 830 | 830 |

BRD performance range (kW) and dimensions (mm)

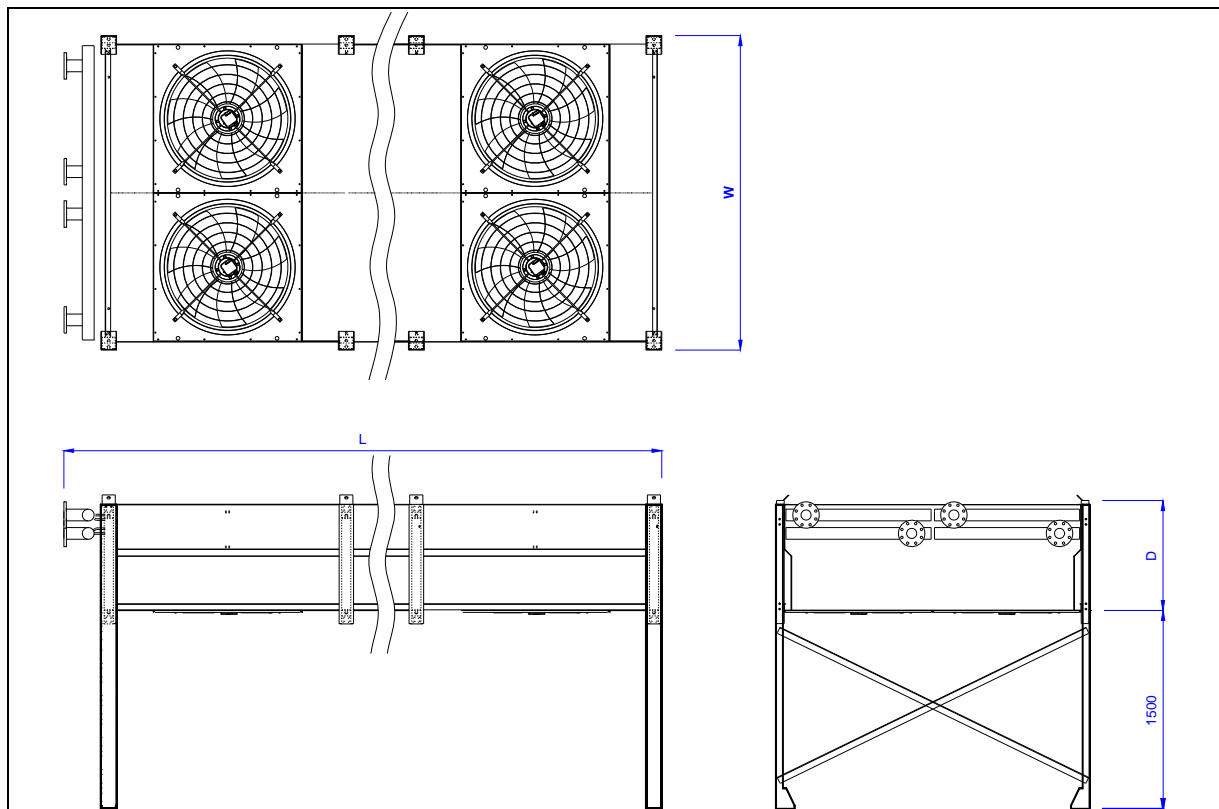


| Model | Dimensions (mm) | ... 902 | ... 903 | ... 904 | ... 905 | ... 906 | ... 907 |
|----------|-----------------|---------|---------|---------|---------|---------|---------|
| BRD/BRD6 | W | 2376 | 2376 | 2376 | 2376 | 2376 | 2376 |
| | L | 4000 | 5800 | 7600 | 9400 | 11200 | 13000 |
| | D | 830 | 830 | 830 | 830 | 830 | 830 |

Dimensions BDC/BDM



Dimensions BDD/BDD6



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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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Bid on Equipment
 1-847-683-7720
www.bid-on-equipment.com