



# AlfaBlue Junior DG

## Dry coolers – commercial range

### General information & application

In addition to the well-proven AlfaBlue dry cooler line, the new generation of AlfaBlue Junior commercial dry coolers is a competitive product line of robust construction and high rigidity, that has every feature you need.

AlfaBlue Junior offers excellent performance especially at low air flow rates, allowing easy installation on site and an outstanding integration with other components. Highly efficient fan motors combine excellent sound characteristics and low energy consumption.

AlfaBlue Junior dry coolers are often used for cooling down condenser water in air-conditioning and refrigeration installations. In the processing industry, dry coolers are suitable for closed circuit cooling of various process liquids.

### Coil

An innovative coil design based on 3/8" copper tubes and corrugated aluminium turbo fins provides excellent heat transfer at a limited internal volume. Standard fin spacing is 2.1 mm.

### Casing

The coil frame is made from AlMg<sub>3</sub> for protection against vibration and thermal expansion. Casing material is galvanized steel sheet, pre-painted with an epoxy finish (RAL9002). Separated fan sections.

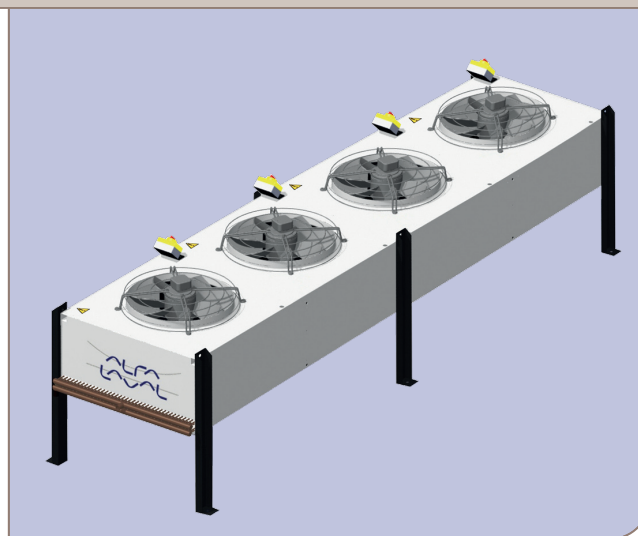
### Fan motors

High efficiency fans with innovative polymeric fan blades and low power consumption. Available in two fan diameters (500 & 630 mm), different power supplies (230V, 400V, 50/60Hz) and four noise levels.

Protection class IP 54 according to DIN 40050. Integrated thermo contacts provide reliable protection against thermal overload (terminals in the box). Motors are wired to one or more common terminal boxes.

### Options

- EC fan motors
- Non-standard power supply
- Fan motor switches
- Terminal box for electric power connection
- Fan speed control (230/1 and 400/3)



AlfaBlue Junior

- Coil corrosion protection
  - Coil coating
  - Fins seawater resistant aluminium alloy 57S/5052
- Special fin spacing (2.5 and 3.2 mm)
- Vibration dampers
- End covers
- Additional electrical options (selection software)

### Certifications

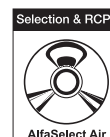
All dry cooler models are "Eurovent Certify All" certified. The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED rules.

### Test

Each heat exchanger undergoes a pressure and leak test with dry air at 10 barg. It is then supplied with a nitrogen pre-charge.

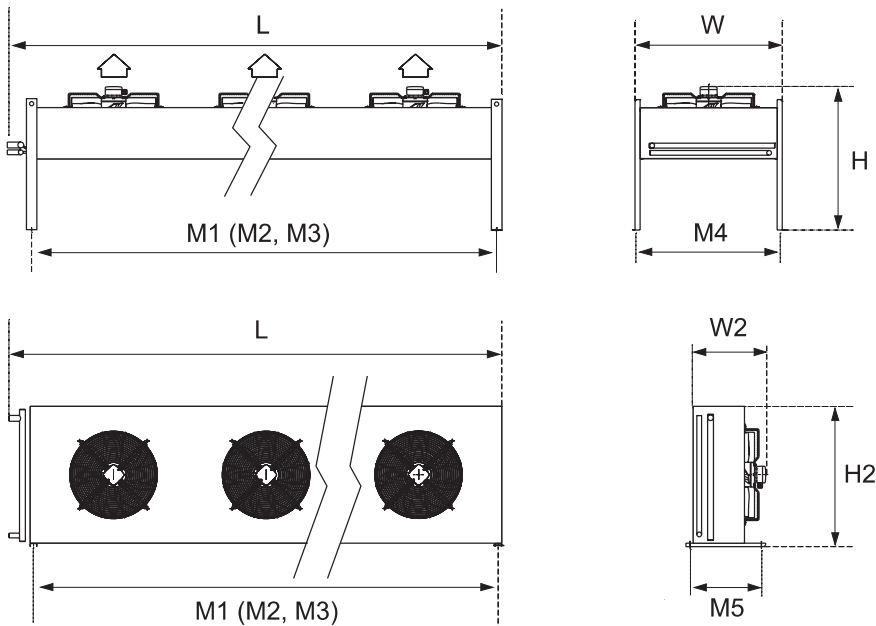
### Selection

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

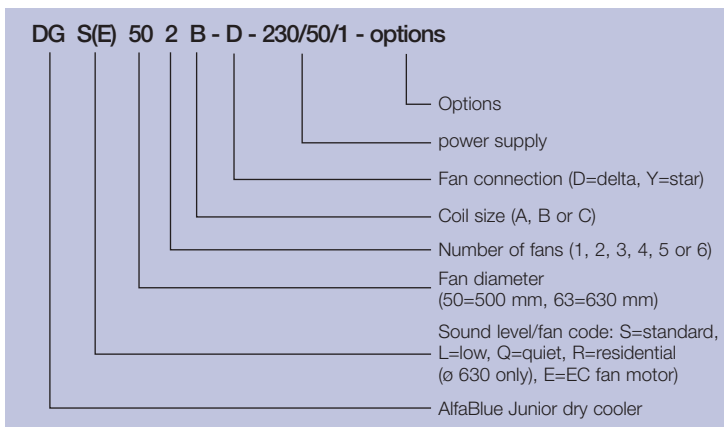


| Dimensions |      |      |      |      |      |     |      |      |      |      |     | Weight |        |        |
|------------|------|------|------|------|------|-----|------|------|------|------|-----|--------|--------|--------|
| type       | fans | L    | H    | W    | H2   | W2  | M1   | M2   | M3   | M4   | M5  | Coil A | Coil B | Coil C |
|            |      | mm   | mm   | mm   | mm   | mm  | mm   | mm   | mm   | mm   | mm  | kg     | kg     | kg     |
| DG*501     | 1    | 1105 | 846  | 868  | 828  | 428 | 940  | -    | -    | 868  | 420 | 39     | 42     | 47     |
| DG*502     | 2    | 2005 | 846  | 868  | 828  | 428 | 1840 | -    | -    | 868  | 420 | 76     | 85     | 93     |
| DG*503     | 3    | 2905 | 846  | 868  | 828  | 428 | 2740 | -    | -    | 868  | 420 | 111    | 123    | 137    |
| DG*504     | 4    | 3805 | 846  | 868  | 828  | 428 | 1800 | 1840 | -    | 868  | 420 | -      | 179    | 192    |
| DG*631     | 1    | 1335 | 1171 | 1210 | 1034 | 750 | 960  | -    | -    | 1105 | 660 | 87     | 93     | 99     |
| DG*632     | 2    | 2335 | 1171 | 1210 | 1034 | 750 | 1960 | -    | -    | 1105 | 660 | 164    | 176    | 188    |
| DG*633     | 3    | 3335 | 1171 | 1210 | 1034 | 750 | 2960 | -    | -    | 1105 | 660 | 242    | 259    | 277    |
| DG*634     | 4    | 4335 | 1171 | 1210 | 1034 | 750 | 1960 | 2000 | -    | 1105 | 660 | 318    | 343    | 366    |
| DG*635     | 5    | 5335 | 1171 | 1210 | 1034 | 750 | 1960 | 1000 | 2000 | 1105 | 660 | 374    | 403    | 434    |
| DG*636     | 6    | 6335 | 1171 | 1210 | 1034 | 750 | 1960 | 2000 | 2000 | 1105 | 660 | 448    | 484    | 519    |

NOTE: weights for DG\*6 are given for sound execution S (Standard).  
Weights for executions L, Q & R are 92% of the given values.



### Code description



### Benefits

- Excellent sound characteristics, suitable for residential applications
- Reliable performance, Eurovent certified
- Easy installation & maintenance.
- Energy efficient - low total cost of ownership.
- Damage-proof packing in sturdy cardboard box on pallet. Bigger units in a crate and wrapped with plastic foil.
- Two-year product guarantee.

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Alfa Laval reserves the right to change specification without prior notification.

### 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](http://www.alfalaval.com)

