

# AlfaBlue Dry Coolers

## General Content

### General Features

A dry cooler is a forced convection air-cooled fluid cooler, designed for outdoor installation. Air is forced over a finned coil which contains the working fluid such as water or a water and glycol mix. All products are designed to satisfy both commercial and industrial refrigeration, air conditioning, and retail refrigeration. Dry coolers are available in the following versions:

- Vertical installation (V)
- Horizontal installation (H)

Relative footprint, low consumption and low noise levels are the keys to this series' success.

### Certifications and reliability

All Dry coolers are guaranteed by Eurovent "Certify All". Alfa Laval quality systems fully comply with ISO 9001, and all of our products are manufactured in strict accordance with CE regulations.

### Capacity

The standard conditions stated in the catalogue are in accordance with EN 1048 (water, T<sub>air</sub>= 25°C, T<sub>in</sub>= 40°C, T<sub>out</sub>= 35°C). All models have many circuiting options which can be selected to optimise duty with required fluid pressure drops and flow rates. Due to the multiple combinations of temperatures, flow rates and working fluids that can be encountered, it is not possible to display all the capacities in the catalogue.

#### How to determine the dry cooler's capacity:

Capacity required (e.g. 34%) = Nominal Capacity. (water) x 1.07 x F1 x F2

Altitude (m)	0	500	1000	1500	2000
F1	1	1,028	1,06	1,09	1,12
Fin material	Al	Al Prv	Cu		
F2	1	1,03	0,97		

### Against Freezing

Given that the tubes are permanently in a horizontal position, it cannot be guaranteed that they drain completely when stoppages occur. As a result of this, a dry cooler containing water must be protected against freezing with an adequate amount of glycol.

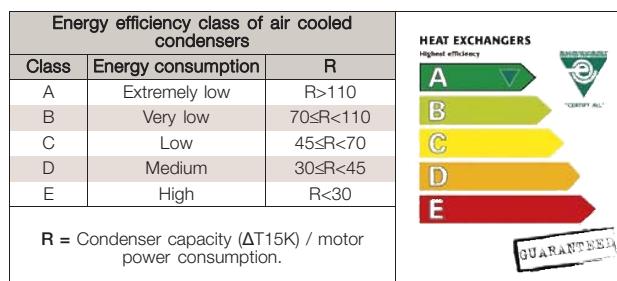
### Tube Protection



Due to the thermal expansion of the copper pipes, all metal sheets are equipped with an aluminium plate with collars. This plate supports the tube and therefore the pipes must not come into contact with the metal sheets. With this solution, the vibrations and thermal expansion are absorbed by the aluminium sheet. Leaks caused by friction cannot occur. The rigidity of the coil is sustained effectively.



### Energy Efficiency Class



### Test and cleaning

Coils are cleaned thoroughly in order to remove any traces of oil. Each heat exchanger undergoes a pressure and leak test with dry air at 10bar (PS= 9bar).

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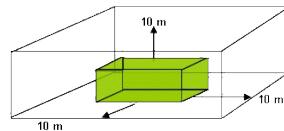
BROEN

DANFOSS

GRUNDFOS

## Sound Data

The sound pressure level is based on the calculation (according to EN 13487) of the sound pressure level on the surface of a cuboid area which is at a 10 metre distance and is parallel to the reference envelope of the sound source. (Standard sound pressure level; annex C EN 13487)



Sound pressure correction for distances other than 10 metres.

Distance (m)	2	3	4	5	7	10	15	20	30	40	50	60	80
Correction dB(A)	11	8,5	7	5	2,5	0	-3	-5,5	-9	-11	-12	-14	-16

Sound pressure level for several fans at nominal speed rating.

N° units	2	3	4	5	6	7	8	9	10
dB(A)	3	5	6	7	8	8,5	9	9,5	10

To calculate the sound pressure level, take the sound power of the individual fans according to their position, and calculate the sound propagation taking into consideration the local and ambient conditions. Speed change, start-up and control noises are not taken into account.

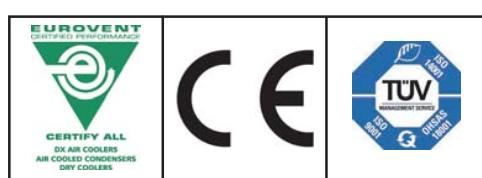
Fan Model	Speed rpm		Total Lw dB(A)		LW octave band spectrum dB(A)															
					63Hz		125Hz		250Hz		500Hz		1 000Hz		2 000Hz		4 000Hz		8 000Hz	
Connection	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y		
630 S	1340	1070	90	84	-	-	68	66	76	72	78	74	83	77	81	76	78	72	70	65
630 L	900	690	77	71	-	-	62	55	69	63	72	65	75	68	72	63	64	56	58	50
630 Q	650	480	70	62	-	-	51	48	60	55	63	58	65	59	60	53	53	47	46	45
630 R	430	330	60	54	-	-	46	45	53	47	54	51	53	49	48	43	43	40	42	41
800 S	880	660	83	76	-	-	69	56	67	62	74	69	78	74	79	72	72	64	62	54
800 L	680	530	76	71	-	-	57	49	62	57	69	63	74	68	72	63	65	55	55	45
800 Q	440	340	66	60	-	-	47	42	57	48	59	54	63	56	58	51	50	43	39	34
800 R	380	240	63	52	-	-	47	42	54	44	57	47	59	48	55	42	47	34	35	26
910 T	890	700	90	83	-	-	72	70	79	73	82	76	84	79	82	76	79	73	73	66
910 S	860	660	85	79	-	-	72	70	79	73	82	76	84	79	82	76	79	73	73	66
910 L	640	440	78	70	-	-	68	62	73	68	76	70	77	70	76	70	73	67	66	60
910 Q	440	330	68	62	-	-	57	49	61	58	64	57	67	60	61	53	52	45	43	35
910 R	390	250	65	53	-	-	56	46	59	45	59	46	61	49	56	44	48	35	38	22
1000 L	680	550	86	81	-	-	58	53	68	60	70	63	73	68	75	67	71	62	62	53
1000 Q	425	325	72	65	-	-	50	45	58	50	62	54	65	58	60	50	54	42	44	30
1000 R	390	260	70	61	-	-	50	44	56	45	60	49	64	52	55	44	48	36	37	25

## Guarantee

All our products are protected under warranty for 18 months from the shipping date. If a defect should occur within the warranty period, please return the equipment or part to our factory free of charge where we will repair or replace the goods, depending on what is required. Unfortunately, We cannot take responsibility for damage caused by the misuse or incorrect installation of our products. Brochure subject to technical changes without prior notice



We recommend that you use the Alfa Select Air software for a precise thermal and mechanical design.



# BDM - Single Fan Row

## Product description

### Application

Alfa Laval Dry Coolers can be used in refrigeration, air conditioning equipment and in industrial cooling (cooling of water or other different fluids, food, power, process and general industry).

### Standard design

#### Coil

This innovative heat exchanger gives excellent heat transfer with minimal refrigerant charge, as a result of new fin corrugation and smooth tubing developed by Alfa Laval. In the standard execution, the heat exchanger is manufactured from copper tubes and aluminum fins with spacing 2.1 mm. BDM is a Single coil model; each manifold provided with draining and venting nozzles. Each heat exchanger undergoes a pressure and leak test with dry air at 10bar (design pressure is 9bar).

#### Casing

Casework made with pre-painted galvanized steel sheets. A new frame design provides high rigidity for heavy applications. The new system protects the heat exchanger tubes completely during transportation and against vibration and thermal expansion while in operation. Supports manufactured in galvanized steel, with optimized length to permit uniform air suction in the coil.



### Benefits

- Footprint: Optimised footprint with higher capacity.
- 630, 800, 910, 1000 mm fan
  - More performance available
  - Low power consumption fan motor
  - More noise level options
  - Flexible design
- All parts are painted in accordance with RAL 9002
  - No cut edges
  - Higher corrosion resistance, double surface treatment
  - External Corrosion Class C4
- Coil design: Increased heat transfer thanks to innovative fin corrugation
- Casing: Strong casing with new design
- High Energy Efficiency: best performance with low energy consumption
- Cabling: ready to install
- Frequency Converter design: units can run under frequency control (when air temperature is below the design, it allows energy saving, noise reduction and longer fan motor life)
- Fan step control:
  - Energy saving
  - Cheapest method of controlling performance
- Fan speed control
  - Energy saving
  - Noise reduction when the air temperature is below the design temperature.
  - Variable and efficient speed control according to the heat rejected
  - Better performance control
- Special fans
  - 480/3ph-60Hz IP54: High adaptability for every market
  - IP 55: High protection fan for use in tropical or desert areas
  - High temperature Electric Motors: Suitable for high temperature fluids when the outlet air is too hot for the standard fan motors.

### Options

- Non-standard fin spacing: for heavy dusty environment
- Coil treatment: corrosion resistance, ideal for aggressive environments
- Vibration Dampers: for reducing vibrations
- Electrical parts
  - Switch on/off: Local safety switch is wired to isolate the fan, and is also available for EMC switches.
  - Terminal Box: all fans wired for an easy electrical connection
  - Switchboard

**Fans**

On the BDM, four different fan diameters are available: 630, 800, 910, 1000 mm. Diameter 630, 800, 910, 1000 mm with three-phase motor 400V-50Hz, for 630 (L, Q, R) also single-phase 230V-50Hz. The motors come with external rotors, protection class IP 54 according to DIN 40050, while integrated thermo contacts provide reliable protection against any instances of thermal overload. These BDM Dry Coolers are available in five fan motor noise levels: (S) standard, (L) low, (Q) quiet, (R) residential and the new (T) high performance fan. The fans are suitable for operation in air temperatures between -40°C and +40°C.

For air temperatures lower than +20°C, the full load current (FLC) can be calculated using the correction factor table. The overload protection should have a 20% margin to accommodate fan motor supplier variations.

T [°C]	20	10	0	-10	-15	-20	-25	-30
F <sub>c</sub>	1	1,04	1,08	1,12	1,14	1,16	1,18	1,2

Model	Capacity [kW]		Pressure Drop fluid [kPa]		Airflow [m³/h]		Lp [dB(A)]*		Motor (3/400V-50Hz)		Fans	Surface	Tube volume	E.E.C.**		Conn. Size	
	Δ	Υ	Δ	Υ	Δ	Υ	Δ	Υ	Δ	Υ	Nº x D [mm]	m²	dm³	Δ	Υ	Inlet	Outlet
<b>Ø 800</b>																	
BDMS801A	56,5	49,1	49,0	38,2	22304	17616	51	46			1X800	167,2	14	D	D	1½/2	1½/2
BDMS801B	70,2	59,3	35,3	26,1	21676	16962	51	46			1X800	250,8	22	D	D	1½/2	1½/2
BDMS801C	79,5	65,6	58,3	41,6	21055	16334	51	46			1X800	334,3	29	D	C	2"	2"
BDMS801D	84,3	68,0	46,5	31,9	20452	15742	51	46			1X800	417,9	36	C	C	2"	2"
BDMS802A	112,0	97,3	44,1	34,4	44548	35169	54	49			2X800	329,7	28	D	D	1½/2	1½/2
BDMS802B	141,5	119,5	72,7	53,8	43262	33832	54	49			2X800	494,5	43	D	D	2"	2"
BDMS802C	158,0	130,2	52,7	37,6	41993	32551	54	49			2X800	659,4	57	D	D	2"	2"
BDMS802D	168,6	136,0	74,3	50,9	40762	31347	54	49			2X800	824,2	71	C	C	2"	2"
BDMS803A	167,5	145,6	42,5	33,2	66791	52721	56	51			3X800	492,2	42	D	D	2"	2"
BDMS803B	208,5	176,2	30,7	22,7	64848	50701	56	51	P=2000W I <sub>n</sub> =4.0A n=880min-1		3X800	738,3	64	D	D	2½/2	2½/2
BDMS803C	237,5	195,7	71,1	50,7	62929	48767	56	51			3X800	984,5	85	D	D	2½/2	2½/2
BDMS803D	251,4	202,8	53,2	36,4	61071	46951	56	51			3X800	1230,6	106	C	C	2½/2	2½/2
BDMS804A	226,8	197,0	95,7	74,6	89034	70272	57	52			4X800	654,8	57	D	D	2½/2	2½/2
BDMS804B	282,0	238,1	68,9	51,0	86432	67570	57	52			4X800	982,1	85	D	D	3"	3"
BDMS804C	314,8	259,5	50,0	35,6	83865	64983	57	52			4X800	1309,5	113	D	D	3"	3"
BDMS804D	333,4	269,1	37,4	25,6	81380	62554	57	52			4X800	1636,9	141	C	C	3"	3"
BDMS805A	274,8	238,9	24,2	18,9	111277	87824	58	53			5X800	817,3	71	D	D	3"	3"
BDMS805B	342,4	289,5	17,5	13,0	108017	84438	58	53			5X800	1225,9	106	D	D	3"	3"
BDMS805C	396,6	326,7	93,2	66,4	104800	81199	58	53			5X800	1634,6	141	D	C	4"	4"
BDMS805D	419,8	338,5	69,7	47,7	101688	78158	58	53			5X800	2043,2	176	C	C	4"	4"
BDML801A	49,0	43,5	84,8	69,0	17152	14190	44	40			1X800	167,2	14	C	C	1½/2	1½/2
BDML801B	59,8	51,6	82,2	62,5	16689	13645	44	40			1X800	250,8	22	C	B	1½/2	1½/2
BDML801C	65,2	55,0	41,2	30,5	16224	13128	44	40			1X800	334,3	29	C	B	2"	2"
BDML801D	68,5	56,7	56,3	40,4	15767	12645	44	40			1X800	417,9	36	B	B	2"	2"
BDML802A	97,3	86,3	76,6	62,4	34261	28327	47	43			2X800	329,7	28	C	C	1½/2	1½/2
BDML802B	118,2	102,0	52,8	40,5	33311	27213	47	43			2X800	494,5	43	C	B	2"	2"
BDML802C	130,8	110,2	76,1	56,3	32359	26160	47	43			2X800	659,4	57	C	B	2"	2"
BDML802D	136,9	113,2	85,4	61,1	31426	25179	47	43			2X800	824,2	71	B	B	2"	2"
BDML803A	143,2	127,0	32,3	26,1	51369	42463	49	45	P=1050W I <sub>n</sub> =2.4A n=680min-1		3X800	492,2	42	C	C	2"	2"
BDML803B	177,9	153,3	71,9	54,7	49933	40781	49	45			3X800	738,3	64	C	B	2½/2	2½/2
BDML803C	194,9	164,3	50,3	37,3	48493	39192	49	45			3X800	984,5	85	C	B	2½/2	2½/2
BDML803D	204,9	169,4	82,5	59,0	47084	37712	49	45			3X800	1230,6	106	B	B	2½/2	2½/2
BDML804A	193,9	172,0	72,6	59,1	68476	56599	50	46			4X800	654,8	57	C	C	2½/2	2½/2
BDML804B	235,5	203,2	50,0	38,4	66554	54348	50	46			4X800	982,1	85	C	B	3"	3"
BDML804C	258,4	217,9	35,4	26,2	64627	52223	50	46			4X800	1309,5	113	C	B	3"	3"
BDML804D	272,9	225,6	81,0	58,0	62741	50244	50	46			4X800	1636,9	141	B	B	3"	3"
BDML805A	235,1	208,5	18,4	14,9	85584	70735	51	47			5X800	817,3	71	C	C	3"	3"
BDML805B	297,1	256,0	94,2	71,6	83175	67916	51	47			5X800	1225,9	106	C	B	3"	3"
BDML805C	325,4	274,3	65,9	48,8	80760	65254	51	47			5X800	1634,6	141	C	B	4"	4"
BDML805D	339,3	280,7	47,9	34,3	78399	62777	51	47			5X800	2043,2	176	B	B	4"	4"
BDMQ801A	35,9	30,1	49,0	36,2	10678	8384	35	28			1X800	167,2	14	B	A	1½/2	1½/2
BDMQ801B	41,6	33,8	43,0	29,9	10335	8013	35	28			1X800	250,8	22	A	A	1½/2	1½/2
BDMQ801C	44,3	35,1	64,1	42,6	9994	7674	35	28			1X800	334,3	29	A	A	2"	2"
BDMQ802A	71,2	59,9	44,3	32,8	21323	16731	38	31			2X800	329,7	28	B	A	1½/2	1½/2
BDMQ802B	83,5	67,8	87,9	61,0	20621	15976	38	31			2X800	494,5	43	A	A	2"	2"
BDMQ802C	88,0	69,8	58,1	38,6	19923	15287	38	31			2X800	659,4	57	A	A	2"	2"
BDMQ803A	107,2	90,1	59,9	44,2	31968	25077	40	33	P=370W I <sub>n</sub> =1.2A n=440min-1		3X800	492,2	42	B	A	2"	2"
BDMQ803B	125,0	101,5	84,9	58,9	30906	23938	40	33			3X800	738,3	64	A	A	2½/2	2½/2
BDMQ803C	131,8	104,4	56,2	37,3	29852	22899	40	33			3X800	984,5	85	A	A	2½/2	2½/2
BDMQ804A	142,0	119,4	42,0	31,1	42613	33424	41	34			4X800	654,8	57	B	A	2½/2	2½/2
BDMQ804B	166,5	135,2	83,5	57,9	41191	31900	41	34			4X800	982,1	85	A	A	3"	3"
BDMQ804C	175,6	139,1	55,2	36,6	39780	30510	41	34			4X800	1309,5	113	A	A	3"	3"
BDMQ805A	179,0	150,4	78,5	57,9	53258	41770	42	35			5X800	817,3	71	B	A	3"	3"
BDMQ805B	206,9	168,1	49,3	34,2	51476	39862	42	35			5X800	1225,9	106	A	A	3"	3"
BDMQ805C	218,3	173,1	32,7	21,7	49708	38122	42	35			5X800	1634,6	141	A	A	4"	4"
BDMR801A	32,2	22,9	40,5	22,1	9184	5851	31	20			1X800	167,2	14	A	A	1½/2	1½/2
BDMR801B	36,7	24,8	34,4	17,2	8840	5560	31	20			1X800	250,8	22	A	A	1½/2	1½/2
BDMR802A	64,0	45,5	36,6	20,0	18335	11674	34	23			2X800	329,7	28	A	A	1½/2	1½/2
BDMR802B	73,6	49,6	70,4	35,1	17632	11080	34	23			2X800	494,5	43	A	A	2"	2"
BDMR803A	96,3	68,4	49,5	27,0	27485	17496	36	25	P=110W I <sub>n</sub> =0,27A n=240min-1		3X800	492,2	42	A	A	2"	2"
BDMR803B	110,2	74,2	68,0	33,9	26423	16599	36	25			3X800	738,3	64	A	A	2½/2	2½/2
BDMR804A	127,6	90,7	34,7	19,0	36636	23318	37	26			4X800	654,8	57	A	A	2½/2	2½/2
BDMR804B	146,7	98,8	66,8	33,3	35214	22118	37	26			4X800	982,1	85	A	A	3"	3"
BDMR805A	160,8	114,2	64,9	35,4	45786	29140	38	27			5X800	817,3	71	A	A	3"	3"
BDMR805B	182,4	123,0	39,5	19,7	44005	27637	38	27			5X800	1225,9	106	A	A	3"	3"

Nominal capacities according to standard EN1048 (water Tair=25°C, Tin=40°C, Tout=35°C).

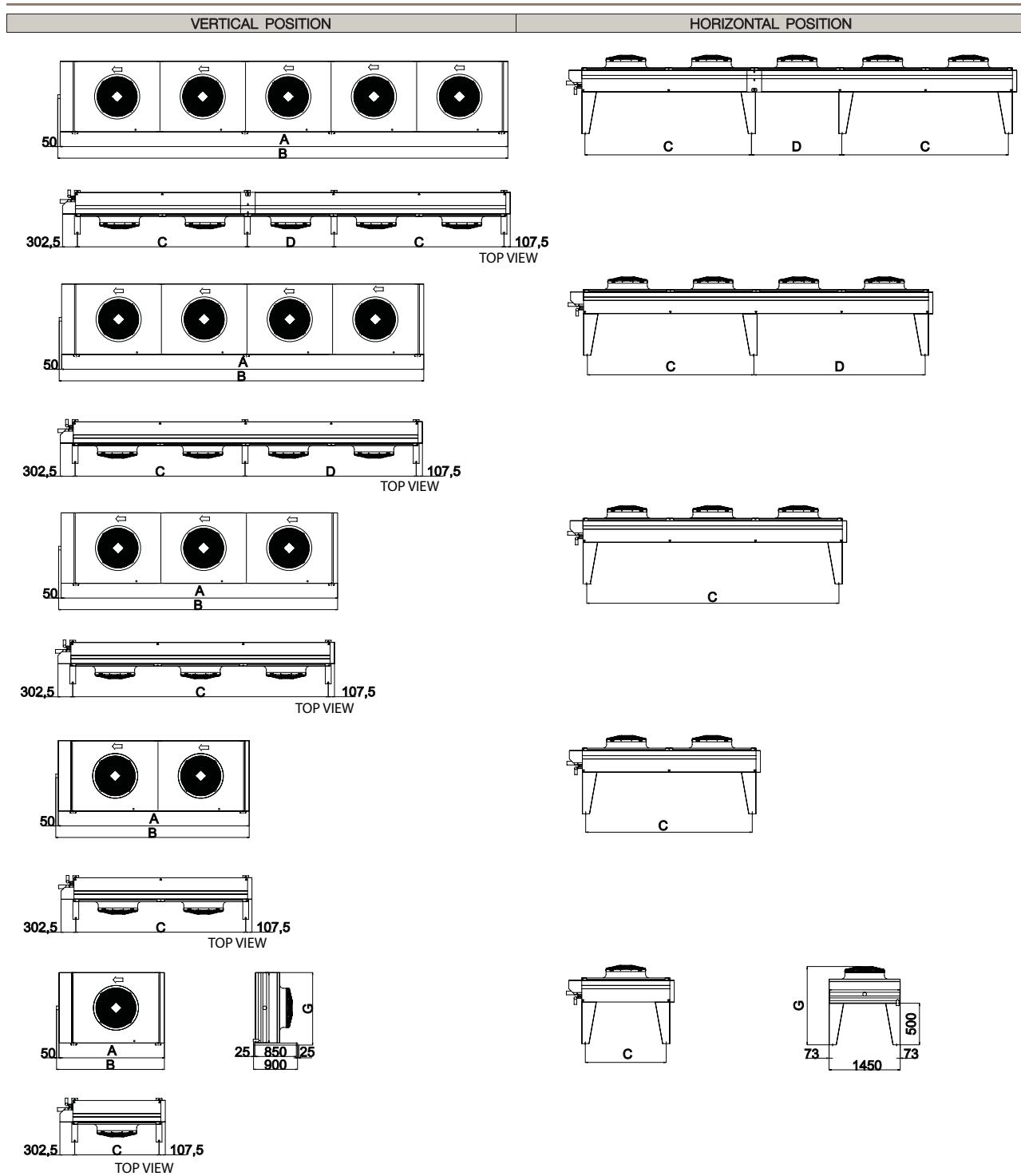
\*See the General Contents for more details.

\*\*Energy Efficiency Class: see "General Contents" for more details.

Serie	Weight [kg]	Dimensions (mm)					Nº feet	
		A	B	C Ø 800	D	G	V	H
BDM_801A	180	2135	2185	1725(V)/1664(H)	-	1495(V)/1250(H)	2	4
BDM_801B	200	2135	2185	1725(V)/1664(H)	-	1495(V)/1250(H)	2	4
BDM_801C	220	2135	2185	1725(V)/1664(H)	-	1495(V)/1250(H)	2	4
BDM_801D	240	2135	2185	1725(V)/1664(H)	-	1495(V)/1250(H)	2	4
BDM_802A	360	3885	3935	3475(V)/3404(H)	-	1495(V)/1250(H)	2	4
BDM_802B	400	3885	3935	3475(V)/3404(H)	-	1495(V)/1250(H)	2	4
BDM_802C	440	3885	3935	3475(V)/3404(H)	-	1495(V)/1250(H)	2	4
BDM_802D	480	3885	3935	3475(V)/3404(H)	-	1495(V)/1250(H)	2	4
BDM_803A	540	5635	5685	5225(V)/5154(H)	-	1495(V)/1250(H)	2	4
BDM_803B	600	5635	5685	5225(V)/5154(H)	-	1495(V)/1250(H)	2	4
BDM_803C	660	5635	5685	5225(V)/5154(H)	-	1495(V)/1250(H)	2	4
BDM_803D	720	5635	5685	5225(V)/5154(H)	-	1495(V)/1250(H)	2	4
BDM_804A	720	7385	7435	3475(V)/3404(H)	3500	1495(V)/1250(H)	3	6
BDM_804B	800	7385	7435	3475(V)/3404(H)	3500	1495(V)/1250(H)	3	6
BDM_804C	880	7385	7435	3475(V)/3404(H)	3500	1495(V)/1250(H)	3	6
BDM_804D	960	7385	7435	3475(V)/3404(H)	3500	1495(V)/1250(H)	3	6
BDM_805A	900	9135	9185	3475(V)/3404(H)	1775(V)/1846(H)	1495(V)/1250(H)	4	8
BDM_805B	1000	9135	9185	3475(V)/3404(H)	1775(V)/1846(H)	1495(V)/1250(H)	4	8
BDM_805C	1100	9135	9185	3475(V)/3404(H)	1775(V)/1846(H)	1495(V)/1250(H)	4	8
BDM_805D	1200	9135	9185	3475(V)/3404(H)	1775(V)/1846(H)	1495(V)/1250(H)	4	8
<b>Ø 910</b>								
BDM_901A	215	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_901B	240	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_901C	265	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_901D	290	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_902A	430	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_902B	480	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_902C	530	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_902D	580	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_903A	645	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_903B	720	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_903C	795	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_903D	870	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_904A	860	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_904B	960	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_904C	1060	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_904D	1160	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
<b>Ø 1000</b>								
BDM_1001A	215	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_1001B	240	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_1001C	265	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_1001D	290	2485	2535	2075(V)/2004(H)	-	1495(V)/1290(H)	2	4
BDM_1002A	430	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_1002B	480	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_1002C	530	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_1002D	580	4585	4635	4175(V)/4104(H)	-	1495(V)/1290(H)	2	4
BDM_1003A	645	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_1003B	720	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_1003C	795	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_1003D	870	6685	6735	6275(V)/6204(H)	-	1495(V)/1290(H)	2	4
BDM_1004A	860	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_1004B	960	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_1004C	1060	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6
BDM_1004D	1160	8785	8835	4175(V)/4104(H)	4200	1495(V)/1290(H)	3	6

Standard Feet 500 mm.

We reserve the right to change our technical data without prior notice.



# BDM - Single Fan Row

## Code description

Code No.

1	2	3	4
BDM	S	63	2

1) Type of noise level (number of dB(A) to reduce compared with "base" version)

	Turbo noise level	Standard noise level	Low noise level	Quiet noise level	Residential noise level
	T	S*	L*	Q*	R*
Fan diameter Ø 630mm (normal / long)	-	base	-10	-18	-29
Fan diameter Ø 800mm	-	base	-7	-16	-20
Fan diameter Ø 910 mm	base	-2	-9	-19	-20
Fan diameter Ø 1 000 mm	-	-	base	-14	-16

2) Fan diameter Ø

63	630 mm
80	800 mm
90	910 mm
100	1 000 mm

3) Number of Fans (\* available in this version)

	Fan diameter Ø 630mm	Fan diameter Ø 630 mm	Fan diameter Ø 800mm	Fan diameter Ø 910 mm	Fan diameter 1000mm
1	*	*	*	*	*
2	*	*	*	*	*
3	*	*	*	*	*
4	-	*	*	*	*
5	-	-	*	-	-

4) Number of coil rows

A	2
B	3
C	4
D	5

### General Alfa Select Air Legend

		Description 1	Description 2	
<b>D</b>	D fan cabling (three phase)	<b>BSFT</b> Basic Switch Board + Speed Control Temp. + Signal	<b>AL</b> Aluminium fin	
<b>Y</b>	Y fan cabling (three phase)	<b>BI</b> Basic Switch Board + Frequency Converter (Inverter)	<b>CU</b> Copper fin	
<b>D/Y</b>	D/Y fan cabling (three phase), single speed fan motor	<b>BSI</b> Basic Switch Board + Frequency Converter (Inverter) + Signal	<b>PR</b> Pre-coated fin	
<b>S</b>	Single phase	<b>C</b> Switch Board + Cooling fan	<b>SS</b> Stainless steel tube	
<b>P</b>	Packaged on a pallet	<b>R</b> Switch Board + Resistor	<b>TH</b> Thermoguard treatment	
<b>CR</b>	Packaged in a crate	<b>F</b> Switch Board + Cooling fan + Resistor	<b>CF</b> Cataphoresis treatment	
<b>BO</b>	Packaged in a box	<b>PT</b> Ammonia pump top	<b>SC</b> Sub-cooling circuit	
<b>Feet</b>	Feet-mounted	<b>PB</b> Ammonia pump bottom	<b>KW</b> Spray water kit	
<b>SW</b>	Safety Switch	<b>AL</b> Aluminium casing	<b>FL</b> Flanges	
<b>CB</b>	Terminal Box	<b>SS</b> Stainless Steel casing	<b>FH</b> Fan ring heater	
<b>B</b>	Basic Switch Board	<b>AP</b> Pre-painted Aluminium casing	<b>IS</b> Insulated Drip Tray	
<b>BS</b>	Basic Switch Board + Signal	<b>PL</b> Plastic casing	<b>RH</b> Reheating coil	
<b>BP</b>	Basic Switch Board + Step Control Pressure	<b>E</b> Electrical defrost	<b>SR</b> Air socket adapter ring	
<b>PT</b>	Basic Switch Board + Step Control Temperature	<b>LE</b> Low Electrical defrost	<b>CW</b> Air throw fan cowling	
<b>BSP</b>	Basic Switch Board + Step Control Pressure + Signal	<b>A</b> Air Defrost	<b>ER</b> 120° elbow reducer	
<b>BST</b>	Basic Switch Board + Step Control Temp. + Signal	<b>HG</b> Hot Gas Defrost	<b>HN</b> Hinged fan cowling	
<b>BFP</b>	Basic Switch Board + Speed Control Pressure	<b>HG+E</b> Hot Gas Defrost + Electrical Defrost on drip tray		
<b>BFT</b>	Basic Switch Board + Speed Control Temperature	<b>W</b> Water Defrost		
<b>BSFP</b>	Basic Switch Board + Speed Control Pres. + Signal	<b>W+E</b> Water Defrost + Electrical Defrost on drip tray		

Note: valid for the entire product range

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