Alfa V- VDD/VDD6

General Contents

General Features

A dry cooler is a forced convection air-cooled fluid cooler, designed for outdoor installation. Air is forced over the finned coil which contains the working fluid such as a water and glycol mix. When determining the working fluid, consideration must be given to the lowest possible ambient temperature that could be experienced by the unit, in order to reduce the risk of freezing the working fluid. All products are designed to satisfy both commercial and industrial refrigeration, air conditioning, and retail refrigeration. 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.air= 25°C, Tin= 40°C, Tout= 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

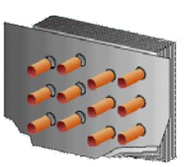
Altitude (m)	0	500	1000	1500	2000
F1	1	1,028	1,06	1,09	1,12

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

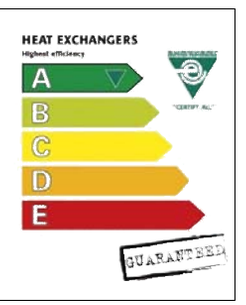


Due to the thermal expansion of the copper pipes, all metal sheets are equipped with an aluminium plate with collars. This plate supports the tube and therefore the pipes must not come into contact with the metal sheets. With this solution, the vibrations and thermal expansion are absorbed by the aluminium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

Energy Efficiency Class

Energy efficiency class of air cooled condensers		
Class	Energy consumption	R
A	Extremely low	R>110
B	Very low	70≤R<110
C	Low	45≤R<70
D	Medium	30≤R<45
E	High	R<30

R = Condenser capacity (ΔT15K) / motor power consumption.



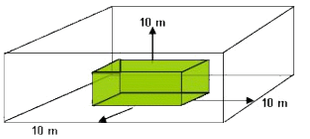
Test and cleaning

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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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	Δ	Y
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

Selection & RCPL
AlfaSelect Air

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

EUROVENT CERTIFIED PERFORMANCE
CERTIFY ALL
DX AIR COOLERS
AIR COOLED CONDENSERS
DRY COOLERS

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Alfa V- VDD/VDD6

Product description



Application

Refrigeration and air conditioning applications:

- water cooling
- free cooling

Standard design

Coil

Optimized “V-type” design provides large capacity within a compact size. This innovative heat exchanger design gives excellent heat transfer with minimal refrigerant costs, thanks to the new fin corrugation developed by Alfa Laval, combined with two different tube sizes 1/2" (VDD series) and 5/8" (VDD6 series). In the standard execution, heat exchanger manufactured from copper tubes and aluminium fins with spacing 2.1 mm. Double connection provides opportunity for two completely independent heat exchangers. Each heat exchanger undergoes a pressure and leak test with dry air at 11 bar, before being supplied with a nitrogen pre-charge.

Casing

The casework is made with painted galvanized steel sheets (corrosion resistance class C4) with an epoxy finish, RAL 9002. The new frame design provides greater rigidity also making it an ideal choice for heavy applications. The new system completely protects the heat exchanger tubes during transit and helps prevent problems caused by vibration and thermal expansion. Support made of galvanized steel.

Benefits

- Footprint
  - Optimises footprint with higher capacity 800, 910 and 1000mm 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 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

Options

- Special fin spacing
  - For dusty environments
- Coil treatment
  - Corrosion resistance
  - Suitable for aggressive environments
- Spray water device
  - Smaller units can be selected.
  - maintains performance during outside temperature peaks.
- Vibration dampers
  - Designed to reduce vibrations
- Special fans
  - EC fans
    - Best alternative for frequency converter control 480/3ph-60Hz, IP54
    - High adaptability on every market, IP55
    - High protection fan for use in tropical or desert areas
- Electrical parts

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- Switch on/off
- Local safety switch wired to isolate the fan. An EMC switch is also available
- Terminal box
  - All fans are wired for easy connection to the electrical supply
- Switchboard
  - Build reliability
  - Corrosion / Shock / Condensation / UV-resistant
  - Wide range of solutions
  - IP66 for casing, IP56 for switchboard
  - 100% recyclable
- Cabling
  - Ready for installation
- Design for frequency converter
  - Units can run under frequency control (when air temperature falls below the designated level, it triggers energy saving, noise reduction and enables longer fan motor life)
- Fan step control
  - Energy saving
  - Cheapest method of controlling performance
- Fan speed control
  - Energy saving
  - Noise reduction when air temperature is below designated level.
  - Variable and efficient control of velocity according to heat reject.
  - Better performance control

Fans

Three different fan diameters available: 800, 910 and 1000mm with a 400V-50Hz three-phase motor. The motors come with external rotors, made in accordance with VDE 0530/12.84, IP54. These Axial Dry Coolers are available in 5 fan motor noise levels: (S) standard, (L) low, (Q) quiet, (R) residential and the new (T) high performance fan Axial Dry Coolers VDD/VDD6 800 and 910 are available in 4 fan motor noise levels: (S) standard, (L) low, (Q) quiet and (R) residential. Axial Dry Coolers VDD/VDD6 1000 are available in 3 fan motor noise levels: (L) low, (Q) quiet and (R) residential. New bell mouths optimise the performance of the fan motors and minimise the noise level. The fans are suitable for operation in air temperatures between -40°C and +40°C.
Each fan chamber is separated by internal baffle plates which enable optimal capacity control by separate running of the fans.
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
Fc	1	1,04	1,08	1,12	1,14	1,16	1,18	1,2

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDDS802A	222,3	193,2	88780	70005	38,7	33,6	71,9	56,1	56	51			D	D	4 x 800	636,5	55,4	2xDN80	2xDN80
VDDS802B	273,9	231,5	86052	67181	47,6	40,3	30,7	22,7	56	51			D	C	4 x 800	954,68	83,2	2xDN80	2xDN80
VDDS802C	310,9	256,2	83370	64494	54,1	44,6	51,0	36,3	56	51			D	C	4 x 800	1272,86	110,9	2xDN80	2xDN80
VDDS803A	333,2	289,6	133258	105100	57,9	50,4	58,2	45,4	58	53			D	D	6 x 800	960,92	83,7	2xDN80	2xDN80
VDDS803B	415,0	350,5	129210	100907	72,2	61,0	42,0	31,1	58	53			D	C	6 x 800	1441,24	125,5	2xDN80	2xDN80
VDDS803C	469,9	387,1	125227	96911	81,7	67,3	69,5	49,5	58	53			D	C	6 x 800	1921,70	167,4	2xDN100	2xDN100
VDDS804A	448,0	389,2	177736	140195	77,9	67,7	80,2	62,6	59	54			D	D	8 x 800	1285,33	111,9	2xDN100	2xDN100
VDDS804B	557,0	470,4	172368	134632	96,9	81,8	55,1	40,8	59	54			D	C	8 x 800	1927,93	167,9	2xDN100	2xDN100
VDDS804C	627,4	516,9	167083	129327	109,1	89,9	68,6	48,9	59	54			D	C	8 x 800	2570,53	223,9	2xDN100	2xDN100
VDDS805A	560,1	486,6	222214	175290	97,4	84,6	77,2	60,3	60	55	P=2000W I=4A n=880 min-1	P=1250W I=2.3A n=660 min-1	D	D	10 x 800	1609,61	140,2	2xDN100	2xDN100
VDDS805B	697,1	588,7	215525	168356	121,2	102,4	55,7	41,3	60	55			D	C	10 x 800	2414,49	210,3	2xDN100	2xDN100
VDDS805C	787,1	648,4	208939	161742	136,9	112,8	84,9	60,5	60	55			D	C	10 x 800	3219,36	280,4	2xDN100	2xDN100
VDDS806A	648,4	563,9	266691	210384	112,8	98,1	17,4	13,6	61	56			D	D	12 x 800	1934,03	168,5	2xDN100	2xDN100
VDDS806B	809,2	684,3	258681	202080	140,7	119,0	12,6	9,3	61	56			D	C	12 x 800	2901,18	252,7	2xDN100	2xDN100
VDDS806C	942,2	776,3	250794	194157	163,9	135,0	67,7	48,2	61	56			D	C	12 x 800	3868,20	336,9	4xDN100	4xDN100
VDDS807A	766,6	666,5	311169	245479	133,3	115,9	27,2	21,2	61	56			D	D	14 x 800	2258,45	196,7	4xDN100	4xDN100
VDDS807B	955,7	807,9	301838	235804	166,2	140,5	19,7	14,6	61	56			D	C	14 x 800	3387,74	295,1	4xDN100	4xDN100
VDDS807C	1069,9	882,7	292649	226572	186,1	153,5	14,4	10,2	61	56			D	C	14 x 800	4517,03	393,4	4xDN100	4xDN100
VDDS808A	885,0	769,2	355646	280573	153,9	133,8	40,0	31,2	62	57			D	D	16 x 800	2582,86	225,0	4xDN100	4xDN100
VDDS808B	1102,4	931,6	344995	269528	191,7	162,0	28,9	21,4	62	57			D	C	16 x 800	3874,43	337,5	4xDN100	4xDN100
VDDS808C	1233,5	1017,0	334504	258986	214,5	176,9	21,2	15,0	62	57			D	C	16 x 800	5165,86	450	4xDN100	4xDN100
VDDL802A	190,3	168,7	68290	56374	33,1	29,3	54,6	44,1	49	45			C	C	4 x 800	636,5	55.4	2xDN80	2xDN80
VDDL802B	232,4	200,3	66270	54028	40,4	34,8	46,0	35,2	49	45			C	B	4 x 800	954,68	83,2	2xDN80	2xDN80
VDDL802C	255,5	215,3	64253	51823	44,4	37,4	36,1	26,7	49	45			C	B	4 x 800	1272,86	110,9	2xDN80	2xDN80
VDDL803A	285,2	252,8	102500	84640	49,6	44,0	44,2	35,7	51	47			C	C	6 x 800	960,92	83,7	2xDN80	2xDN80
VDDL803B	351,8	303,4	99504	81153	61,2	52,8	69,7	53,5	51	47			C	B	6 x 800	1441,24	125.5	2xDN80	2xDN80
VDDL803C	385,9	325,2	96510	77874	67,1	56,6	49,2	36,4	51	47			C	B	6 x 800	1921,70	167,4	2xDN100	2xDN100
VDDL804A	383,2	339,9	136710	112904	66,6	59,1	60,9	49,6	52	48			C	C	8 x 800	1285,33	111,9	2xDN100	2xDN100
VDDL804B	465,7	401,6	132737	108278	81,0	69,8	40,0	30,6	52	48			C	B	8 x 800	1927,93	167,9	2xDN100	2xDN100
VDDL804C	515,1	434,2	128765	103923	89,6	75,5	48,6	35,9	52	48			C	B	8 x 800	2570,53	223,9	2xDN100	2xDN100
VDDL805A	479,2	425,0	170919	141169	83,3	73,9	58,6	47,8	53	49	P=1050W I=2.4A n=680 min-1	P=770W I=1.5A n=530 min-1	C	C	10 x 800	1609,61	140,2	2xDN100	2xDN100
VDDL805B	582,8	502,4	165970	135402	101,3	87,4	40,5	30,9	53	49			C	B	10 x 800	2414,49	210,3	2xDN100	2xDN100
VDDL805C	646,1	544,5	161021	129972	112,4	94,7	60,1	44,5	53	49			C	B	10 x 800	3219,36	280,4	2xDN100	2xDN100
VDDL806A	555,3	492,6	205128	169433	96,6	85,7	13,2	10,7	54	50			C	C	12 x 800	1934,03	168,5	2xDN100	2xDN100
VDDL806B	705,4	608,2	199203	162526	122,7	105,8	67,8	52,0	54	50			C	B	12 x 800	2901,18	252,7	2xDN100	2xDN100
VDDL806C	773,6	652,1	193276	156021	134,5	113,4	47,9	35,5	54	50			C	B	12 x 800	3868,20	336,9	4xDN100	4xDN100
VDDL807A	656,3	582,0	239338	197698	114,1	101,2	20,7	16,7	54	50			C	C	14 x 800	2258,45	196,7	4xDN100	4xDN100
VDDL807B	799,8	690,9	232436	189650	139,1	120,2	14,3	11,1	54	50			C	B	14 x 800	3387,74	295,1	4xDN100	4xDN100
VDDL807C	907,6	764,8	225531	182069	157,8	133,0	73,9	54,7	54	50			C	B	14 x 800	4517,03	393,4	4xDN100	4xDN100
VDDL808A	757,3	671,5	273547	225962	131,7	116,8	30,4	24,6	55	51			C	C	16 x 800	2582,86	225	4xDN100	4xDN100
VDDL808B	922,1	796,2	265668	216773	160,4	138,5	21,1	16,2	55	51			C	B	16 x 800	3874,43	337,5	4xDN100	4xDN100
VDDL808C	1013,3	855,3	257785	208118	176,2	148,7	14,9	11,1	55	51			C	B	16 x 800	5165,86	450,0	4xDN100	4xDN100
VDDQ802A	139,7	117,4	42475	33269	24,3	20,4	31,8	23,3	40	33			B	A	4 x 800	636,5	55,4	2xDN80	2xDN80
VDDQ802B	162,3	132,0	40981	31688	28,3	23,0	24,4	16,9	40	33			A	A	4 x 800	954,68	83,2	2xDN80	2xDN80
VDDQ802C	171,8	136,2	39509	30253	29,9	23,7	18,0	11,9	40	33			A	A	4 x 800	1272,86	110,9	2xDN80	2xDN80
VDDQ803A	212,2	178,4	63761	49957	37,0	31,1	58,5	43,3	42	35			B	A	6 x 800	960,92	83,7	2xDN80	2xDN80
VDDQ803B	245,5	199,5	61545	47605	42,8	34,8	36,9	25,6	42	35			A	A	6 x 800	1441,24	125.5	2xDN80	2xDN80
VDDQ803C	259,3	205,5	59357	45469	45,2	35,8	24,4	16,2	42	35			A	A	6 x 800	1921,70	167,4	2xDN100	2xDN100
VDDQ804A	281,1	236,2	85046	66645	49,0	41,1	35,4	26,0	43	36			B	A	8 x 800	1285,33	111,9	2xDN100	2xDN100
VDDQ804B	327,7	266,3	82108	63522	57,1	46,4	36,4	25,2	43	36			A	A	8 x 800	1927,93	167,9	2xDN100	2xDN100
VDDQ804C	348,7	276,2	79206	60684	60,8	48,1	54,3	36,0	43	36			A	A	8 x 800	2570,53	223,9	2xDN100	2xDN100
VDDQ805A	351,4	295,3	106331	83332	61,2	51,4	34,0	25,0	44	37	P=370W I=1.2A n=440 min-1	P=200W I=0.5A n=340 min-1	B	A	10 x 800	1609,61	140,2	2xDN100	2xDN100
VDDQ805B	410,4	333,5	102671	79439	71,5	58,1	39,7	27,5	44	37			A	A	10 x 800	2414,49	210,3	2xDN100	2xDN100
VDDQ805C	435,5	345,0	99053	75899	75,9	60,1	44,9	29,8	44	37			A	A	10 x 800	3219,36	280,4	2xDN100	2xDN100
VDDQ806A	425,4	357,6	127617	100020	74,1	62,3	57,0	42,2	45	38			B	A	12 x 800	1934,03	168,5	2xDN100	2xDN100
VDDQ806B	495,6	402,6	123234	95356	86,3	70,1	66,2	45,9	45	38			A	A	12 x 800	2901,18	252,7	2xDN100	2xDN100
VDDQ806C	525,0	415,7	118901	91114	91,5	72,4	74,6	49,5	45	38			A	A	12 x 800	3868,20	336,9	4xDN100	4xDN100
VDDQ807A	499,4	419,6	148902	116707	87,0	73,1	88,0	65,0	45	38			B	A	14 x 800	2258,45	196,7	4xDN100	4xDN100
VDDQ807B	577,2	469,0	143796	111272	100,6	81,7	55,3	38,4	45	38			A	A	14 x 800	3387,74	295,1	4xDN100	4xDN100
VDDQ807C	609,1	482,7	138748	106329	106,1	84,1	36,6	24,3	45	38			A	A	14 x 800	4517,03	393,4	4xDN100	4xDN100
VDDQ808A	555,9	467,5	170187	133395	96,9	81,4	17,7	13,0	46	39			B	A	16 x 800	2582,86	225	4xDN100	4xDN100
VDDQ808B	662,4	538,0	164359	127189	115,4	93,7	80,4	55,8	46	39			A	A	16 x 800	3874,43	337,5	4xDN100	4xDN100
VDDQ808C	698,6	553,4	158596	121543	121,7	96,4	53,2	35,3	46	39			A	A	16 x 800	5165,86	450,0	4xDN100	4xDN100

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.

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDDR802A	125,5	89,3	36495	23197	21,8	15,5	26,3	14,4	36	25			A	A	4 x 800	636,5	55,4	2xDN80	2xDN80
VDDR802B	143,2	96,7	35010	21950	24,9	16,8	19,5	9,8	36	25			A	A	4 x 800	954,68	83,2	2xDN80	2xDN80
VDDR802C	149,4	97,1	33598	20820	26,0	16,9	14,0	6,6	36	25			A	A	4 x 800	1272,86	110,9	2xDN80	2xDN80
VDDR803A	190,6	135,5	54791	34837	33,1	23,6	48,4	26,5	38	27			A	A	6 x 800	960,92	83,7	2xDN80	2xDN80
VDDR803B	216,5	146,0	52586	32984	37,6	25,4	29,5	14,8	38	27			A	A	6 x 800	1441,24	125.5	2xDN80	2xDN80
VDDR803C	227,0	147,2	50486	31300	39,5	25,6	43,0	20,1	38	27			A	A	6 x 800	1921,70	167,4	2xDN100	2xDN100
VDDR804A	254,5	180,9	73087	46477	44,3	31,5	47,8	26,1	39	28			A	A	8 x 800	1285,33	111,9	2xDN100	2xDN100
VDDR804B	288,9	194,9	70161	44017	50,3	33,9	29,1	14,6	39	28			A	A	8 x 800	1927,93	167,9	2xDN100	2xDN100
VDDR804C	303,0	196,5	67374	41779	52,7	34,2	42,4	19,8	39	28			A	A	8 x 800	2570,53	223,9	2xDN100	2xDN100
VDDR805A	318,9	226,7	91383	58117	55,5	39,4	54,8	30,0	40	29	P=250W I=0.62A n=380 min-1	P=110W I=0.27A n=240 min-1	A	A	10 x 800	1609,61	140,2	2xDN100	2xDN100
VDDR805B	363,9	245,2	87737	55050	63,3	42,6	54,3	27,1	40	29			A	A	10 x 800	2414,49	210,3	2xDN100	2xDN100
VDDR805C	378,5	245,6	84261	52259	65,8	42,7	35,1	16,4	40	29			A	A	10 x 800	3219,36	280,4	2xDN100	2xDN100
VDDR806A	382,1	271,6	109679	69757	66,5	47,2	47,1	25,7	41	30			A	A	12 x 800	1934,03	168,5	2xDN100	2xDN100
VDDR806B	436,8	294,3	105312	66083	76,0	51,2	53,0	26,4	41	30			A	A	12 x 800	2901,18	252,7	2xDN100	2xDN100
VDDR806C	456,1	295,6	101149	62738	79,3	51,4	58,2	27,2	41	30			A	A	12 x 800	3868,20	336,9	4xDN100	4xDN100
VDDR807A	448,6	318,7	127975	81397	78,0	55,4	72,7	39,7	41	30			A	A	14 x 800	2258,45	196,7	4xDN100	4xDN100
VDDR807B	508,8	343,0	122887	77115	88,5	59,6	44,3	22,1	41	30			A	A	14 x 800	3387,74	295,1	4xDN100	4xDN100
VDDR807C	532,3	345,1	118036	73217	92,6	60,0	59,5	27,8	41	30			A	A	14 x 800	4517,03	393,4	4xDN100	4xDN100
VDDR808A	499,7	355,6	146271	93037	86,9	61,8	14,6	8,0	42	31			A	A	16 x 800	2582,86	225	4xDN100	4xDN100
VDDR808B	583,8	393,3	140462	88148	101,5	68,4	64,4	32,1	42	31			A	A	16 x 800	3874,43	337,5	4xDN100	4xDN100
VDDR808C	607,0	393,7	134923	83696	105,6	68,5	41,6	19,4	42	31			A	A	16 x 800	5165,86	450,0	4xDN100	4xDN100

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

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDDT902A	267,6	241,7	127573	105306	46,6	42,1	60,09	50,18	62	57			E	E	4 x 910	636,5	55,4	2xDN80	2xDN80
VDDT902B	342,9	302,0	123300	100215	59,7	52,6	45,4	36,26	62	57			E	D	4 x 910	954,68	83,2	2xDN80	2xDN80
VDDT902C	398,1	342,4	118519	95183	69,3	59,6	79,3	60,99	62	57			E	D	4 x 910	1272,86	110,9	2xDN80	2xDN80
VDDT903A	401,2	362,4	191483	158121	69,9	63,1	50,1	41,85	64	59			E	D	6 x 910	960,92	83,7	2xDN80	2xDN80
VDDT903B	520,0	458,2	185176	150573	90,6	79,8	62,3	50,19	64	59			E	D	6 x 910	1441,24	125,5	2xDN80	2xDN80
VDDT903C	593,7	511,1	178095	143093	103,4	89,0	47,5	36,64	64	59			E	D	6 x 910	1921,70	167,4	2xDN100	2xDN100
VDDT904A	537,9	485,9	255391	210933	93,7	84,6	57,9	48,37	65	60			E	D	8 x 910	1285,33	111,9	2xDN100	2xDN100
VDDT904B	689,2	607,0	247049	200929	120,1	105,7	43,7	34,95	65	60			D	D	8 x 910	1927,93	167,9	2xDN100	2xDN100
VDDT904C	798,9	687,3	237668	191002	139,2	119,7	70,7	54,36	65	60			E	D	8 x 910	2570,53	223,9	2xDN100	2xDN100
VDDT905A	645,3	583,3	319299	263745	112,4	101,6	14,4	12,02	66	61	P=3600W I=7,2A n=890 min-1	P=2500W I=4,2A n=700min-1	E	D	10 x 910	1609,61	140,2	2xDN100	2xDN100
VDDT905B	828,3	730,3	308922	251285	144,3	127,2	10,9	8,71	66	61			D	D	10 x 910	2414,49	210,3	2xDN100	2xDN100
VDDT905C	997,7	858,5	297240	238909	173,8	149,6	63,0	48,52	66	61			D	D	10 x 910	3219,36	280,4	2xDN100	2xDN100
VDDT906A	789,4	713,3	383207	316557	137,5	124,3	24,6	20,55	67	62			E	D	12 x 910	1934,03	168,5	2xDN100	2xDN100
VDDT906B	1012,4	892,2	370794	301640	176,4	155,4	18,6	14,87	67	62			E	D	12 x 910	2901,18	252,7	2xDN100	2xDN100
VDDT906C	1158,4	997,6	356811	286816	201,8	173,8	14,3	10,92	67	62			D	D	12 x 910	3868,20	336,9	4xDN100	4xDN100
VDDT907A	933,8	843,6	447114	369369	162,7	147,0	38,6	32,22	67	62			E	D	14 x 910	2258,45	196,7	4xDN100	4xDN100
VDDT907B	1196,8	1054,4	432666	351995	208,5	183,7	29,1	23,29	67	62			D	D	14 x 910	3387,74	295,1	4xDN100	4xDN100
VDDT907C	1368,2	1177,8	416383	334723	238,4	205,2	22,3	17,06	67	62			D	D	14 x 910	4517,03	393,4	4xDN100	4xDN100
VDDT908A	1078,4	974,1	511021	422180	187,9	169,7	56,8	47,43	68	63			E	D	16 x 910	2582,86	225,0	4xDN100	4xDN100
VDDT908B	1381,5	1216,8	494538	402349	240,7	212,0	42,9	34,27	68	63			D	D	16 x 910	3874,43	337,5	4xDN100	4xDN100
VDDT908C	1578,3	1358,1	475954	382629	275,0	236,6	32,7	25,06	68	63			D	C	16 x 910	5165,86	450,0	4xDN100	4xDN100
VDDS902A	221,0	192,0	89655	70571	38,4	33,4	42,8	33,4	58	53			D	C	4 x 910	636,5	55,4	2xDN80	2xDN80
VDDS902B	279,2	235,7	86693	67640	48,6	41,0	63,8	47,2	58	53			C	C	4 x 910	954,68	83,2	2xDN80	2xDN80
VDDS902C	311,9	257,2	83717	64812	54,2	44,7	51,3	36,6	58	53			C	C	4 x 910	1272,86	110,9	2xDN80	2xDN80
VDDS903A	335,1	291,0	134577	105952	58,3	50,6	58,8	45,8	60	55			D	C	6 x 910	960,92	83,7	2xDN80	2xDN80
VDDS903B	417,0	352,2	130186	101602	72,5	61,3	42,4	31,4	60	55			C	C	6 x 910	1441,24	125,5	2xDN80	2xDN80
VDDS903C	471,4	388,6	125767	97397	82,0	67,6	70,0	49,9	60	55			C	C	6 x 910	1921,70	167,4	2xDN100	2xDN100
VDDS904A	444,0	385,7	179499	141332	77,2	67,1	41,2	32,2	61	56			D	C	8 x 910	1285,33	111,9	2xDN100	2xDN100
VDDS904B	559,8	472,7	173678	135563	97,4	82,2	55,6	41,1	61	56			C	C	8 x 910	1927,93	167,9	2xDN100	2xDN100
VDDS904C	625,6	515,9	167816	129981	108,8	89,7	45,7	32,5	61	56			C	C	8 x 910	2570,53	223,9	2xDN100	2xDN100
VDDS905A	563,3	489,0	224420	176712	98,0	85,1	78,0	60,8	62	57	P=1650W I=3.5A n=860 min-1	P=1100W I=1.8A n=660 min-1	D	C	10 x 910	1609,61	140,2	2xDN100	2xDN100
VDDS905B	700,6	591,5	217169	169524	121,8	102,9	56,2	41,6	62	57			C	C	10 x 910	2414,49	210,3	2xDN100	2xDN100
VDDS905C	781,3	644,4	209865	162564	135,9	112,1	40,8	29,0	62	57			C	C	10 x 910	3219,36	280,4	2xDN100	2xDN100
VDDS906A	652,1	566,7	269340	212092	113,4	98,6	17,5	13,7	63	58			D	C	12 x 910	1934,03	168,5	2xDN100	2xDN100
VDDS906B	812,4	687,7	260660	203484	141,3	119,6	12,6	9,4	63	58			C	C	12 x 910	2901,18	252,7	2xDN100	2xDN100
VDDS906C	945,4	779,4	251913	195147	164,4	135,5	68,1	48,6	63	58			C	C	12 x 910	3868,20	336,9	4xDN100	4xDN100
VDDS907A	770,9	669,8	314261	247472	134,1	116,5	27,5	21,4	63	58			D	C	14 x 910	2258,45	196,7	4xDN100	4xDN100
VDDS907B	960,6	811,8	304151	237444	167,1	141,2	19,9	14,7	63	58			C	C	14 x 910	3387,74	295,1	4xDN100	4xDN100
VDDS907C	1073,4	886,2	293961	227730	186,7	154,1	14,5	10,3	63	58			C	C	14 x 910	4517,03	393,4	4xDN100	4xDN100
VDDS908A	890,0	773,0	359182	282852	154,8	134,4	40,4	31,5	64	59			D	C	16 x 910	2582,86	225,0	4xDN100	4xDN100
VDDS908B	1108,0	936,1	347642	271404	192,7	162,8	29,2	21,6	64	59			C	C	16 x 910	3874,43	337,5	4xDN100	4xDN100
VDDS908C	1237,8	1021,0	336009	260313	215,3	177,6	21,4	15,1	64	59			C	C	16 x 910	5165,86	450,0	4xDN100	4xDN100
VDDL902A	187,3	149,8	66563	47056	32,6	26,1	53,1	35,96	51	44			C	B	4 x 910	636,5	55,4	2xDN80	2xDN80
VDDL902B	227,0	173,5	64138	44626	39,5	30,2	44,2	27,4	51	44			C	B	4 x 910	954,68	83,2	2xDN80	2xDN80
VDDL902C	248,0	182,8	61845	42515	43,1	31,8	34,3	20,0	51	44			B	B	4 x 910	1272,86	110,9	2xDN80	2xDN80
VDDL903A	280,7	224,6	99925	70669	48,8	39,1	43,0	29,13	53	46			C	B	6 x 910	960,92	83,7	2xDN80	2xDN80
VDDL903B	344,0	262,5	96323	67050	59,8	45,7	67,4	41,5	53	46			B	B	6 x 910	1441,24	125,5	2xDN80	2xDN80
VDDL903C	374,6	276,0	92912	63901	65,1	48,0	46,7	27,3	53	46			B	B	6 x 910	1921,70	167,4	2xDN100	2xDN100
VDDL904A	377,3	301,6	133286	94282	65,6	52,5	59,3	40,1	54	47			C	B	8 x 910	1285,33	111,9	2xDN100	2xDN100
VDDL904B	459,3	350,5	128507	89473	79,9	60,9	66,5	40,9	54	47			B	B	8 x 910	1927,93	167,9	2xDN100	2xDN100
VDDL904C	500,1	368,5	123979	85287	87,0	64,1	46,1	26,9	54	47			B	B	8 x 910	2570,53	223,9	2xDN100	2xDN100
VDDL905A	471,7	377,2	166647	117895	82,0	65,6	57,0	38,61	55	48	P=900W I=2.2A n=640 min-1	P=470W I=1.05A n=440 min-1	C	B	10 x 910	1609,61	140,2	2xDN100	2xDN100
VDDL905B	569,5	435,2	160691	111896	99,0	75,7	38,9	24,2	55	48			C	B	10 x 910	2414,49	210,3	2xDN100	2xDN100
VDDL905C	627,2	462,1	155045	106672	109,1	80,4	57,1	33,3	55	48			B	B	10 x 910	3219,36	280,4	2xDN100	2xDN100
VDDL906A	546,8	437,7	200008	141507	95,1	76,1	12,8	8,66	56	49			C	B	12 x 910	1934,03	168,5	2xDN100	2xDN100
VDDL906B	689,8	526,4	192874	134319	120,0	91,5	65,6	40,4	56	49			B	B	12 x 910	2901,18	252,7	2xDN100	2xDN100
VDDL906C	751,0	553,5	186111	128058	130,6	96,3	45,5	26,6	56	49			B	B	12 x 910	3868,20	336,9	4xDN100	4xDN100
VDDL907A	646,1	517,4	233369	165120	112,4	90,0	20,1	13,66	56	49			C	B	14 x 910	2258,45	196,7	4xDN100	4xDN100
VDDL907B	781,7	597,9	225057	156742	136,0	104,0	13,8	8,5	56	49			C	B	14 x 910	3387,74	295,1	4xDN100	4xDN100
VDDL907C	881,1	648,9	217176	149443	153,2	112,9	70,2	40,9	56	49			B	B	14 x 910	4517,03	393,4	4xDN100	4xDN100
VDDL908A	745,7	596,7	266730	188732	129,7	103,8	29,6	20,07	57	50			C	B	16 x 910	2582,86	225,0	4xDN100	4xDN100
VDDL908B	901,3	689,4	257240	179165	156,7	119,9	20,2	12,6	57	50			C	B	16 x 910	3874,43	337,5	4xDN100	4xDN100
VDDL908C	984,0	726,9	248242	170828	171,1	126,4	14,2	8,3	57	50			B	B	16 x 910	5165,86	450,0	4xDN100	4xDN100

Nominal capacities according to standard EN1048 (water Tair=25°C, Tin=40°C,Tout=35°C).
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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDDQ902A	141,8	120,8	43412	34590	24,7	21,0	32,6	24,5	41	35			A	A	4 x 910	636,5	55,4	2xDN80	2xDN80
VDDQ902B	164,5	135,8	41691	32807	28,7	23,7	25,0	17,8	41	35			A	A	4 x 910	954,68	83,2	2xDN80	2xDN80
VDDQ902C	173,8	140,0	40047	31196	30,3	24,4	18,3	12,5	41	35			A	A	4 x 910	1272,86	110,9	2xDN80	2xDN80
VDDQ903A	215,4	183,4	65175	51945	37,5	32,0	60,2	45,2	43	37			A	A	6 x 910	960,92	83,7	2xDN80	2xDN80
VDDQ903B	248,9	205,3	62619	49293	43,4	35,8	37,7	26,9	43	37			A	A	6 x 910	1441,24	125,5	2xDN80	2xDN80
VDDQ903C	264,3	212,7	60175	46894	46,1	37,0	56,2	38,3	43	37			A	A	6 x 910	1921,70	167,4	2xDN100	2xDN100
VDDQ904A	287,6	244,9	86937	69301	50,1	42,7	59,4	44,6	44	38			A	A	8 x 910	1285,33	111,9	2xDN100	2xDN100
VDDQ904B	332,2	274,1	83546	65779	57,9	47,8	37,3	26,5	44	38			A	A	8 x 910	1927,93	167,9	2xDN100	2xDN100
VDDQ904C	352,9	283,9	80301	62591	61,5	49,5	55,4	37,8	44	38			A	A	8 x 910	2570,53	223,9	2xDN100	2xDN100
VDDQ905A	356,8	303,9	108700	86656	62,2	52,9	35,0	26,3	45	39	P=270W I=0.7A n=390 min-1	P=140W I=0.32A n=250 min-1	A	A	10 x 910	1609,61	140,2	2xDN100	2xDN100
VDDQ905B	418,6	345,2	104473	82264	72,9	60,1	69,5	49,5	45	39			A	A	10 x 910	2414,49	210,3	2xDN100	2xDN100
VDDQ905C	440,7	354,7	100428	78288	76,8	61,8	45,9	31,3	45	39			A	A	10 x 910	3219,36	280,4	2xDN100	2xDN100
VDDQ906A	431,9	367,7	130462	104011	75,2	64,1	58,6	44,0	46	40			A	A	12 x 910	1934,03	168,5	2xDN100	2xDN100
VDDQ906B	502,4	414,4	125400	98750	87,5	72,2	67,8	48,3	46	40			A	A	12 x 910	2901,18	252,7	2xDN100	2xDN100
VDDQ906C	529,6	426,2	120554	93984	92,3	74,2	50,6	34,6	46	40			A	A	12 x 910	3868,20	336,9	4xDN100	4xDN100
VDDQ907A	489,5	417,2	152224	121366	85,3	72,7	12,4	9,3	46	40			A	A	14 x 910	2258,45	196,7	4xDN100	4xDN100
VDDQ907B	585,2	482,7	146327	115235	102,0	84,1	56,7	40,4	46	40			A	A	14 x 910	3387,74	295,1	4xDN100	4xDN100
VDDQ907C	620,1	498,8	140681	109681	108,0	86,9	77,8	53,1	46	40			A	A	14 x 910	4517,03	393,4	4xDN100	4xDN100
VDDQ908A	564,5	481,0	173986	138721	98,3	83,8	18,2	13,7	47	41			A	A	16 x 910	2582,86	225,0	4xDN100	4xDN100
VDDQ908B	671,7	553,9	167254	131721	117,0	96,5	82,4	58,7	47	41			A	A	16 x 910	3874,43	337,5	4xDN100	4xDN100
VDDQ908C	706,9	568,9	160807	125378	123,2	99,1	54,3	37,1	47	41			A	A	16 x 910	5165,86	450,0	4xDN100	4xDN100
VDDR902A	135,2	98,1	40531	26175	23,5	17,1	30,0	16,9	40	30			A	A	4 x 910	636,5	55,4	2xDN80	2xDN80
VDDR902B	155,5	107,0	38825	24688	27,0	18,6	22,6	11,7	40	30			A	A	4 x 910	954,68	83,2	2xDN80	2xDN80
VDDR902C	163,3	108,1	37219	23391	28,4	18,8	16,4	7,9	40	30			A	A	4 x 910	1272,86	110,9	2xDN80	2xDN80
VDDR903A	205,4	148,8	60853	39314	35,7	25,9	55,2	31,1	42	32			A	A	6 x 910	960,92	83,7	2xDN80	2xDN80
VDDR903B	237,1	162,8	58319	37100	41,2	28,3	69,6	35,9	42	32			A	A	6 x 910	1441,24	125,5	2xDN80	2xDN80
VDDR903C	248,2	163,9	55929	35166	43,2	28,5	50,3	24,2	42	32			A	A	6 x 910	1921,70	167,4	2xDN100	2xDN100
VDDR904A	274,2	198,7	81175	52453	47,7	34,5	54,5	30,7	43	33			A	A	8 x 910	1285,33	111,9	2xDN100	2xDN100
VDDR904B	314,0	215,8	77812	49511	54,6	37,5	33,7	17,4	43	33			A	A	8 x 910	1927,93	167,9	2xDN100	2xDN100
VDDR904C	328,9	217,6	74639	46940	57,2	37,8	22,0	10,7	43	33			A	A	8 x 910	2570,53	223,9	2xDN100	2xDN100
VDDR905A	340,2	246,7	101497	65592	59,2	42,9	32,1	18,1	44	34	P=270W I=0.7A n=390 min-1	P=140W I=0.32A n=250 min-1	A	A	10 x 910	1609,61	140,2	2xDN100	2xDN100
VDDR905B	393,3	270,3	97305	61922	68,4	47,0	36,8	19,0	44	34			A	A	10 x 910	2414,49	210,3	2xDN100	2xDN100
VDDR905C	413,8	273,5	93349	58714	72,0	47,6	41,0	19,8	44	34			A	A	10 x 910	3219,36	280,4	2xDN100	2xDN100
VDDR906A	411,8	298,3	121818	78731	71,6	51,9	53,8	30,2	45	35			A	A	12 x 910	1934,03	168,5	2xDN100	2xDN100
VDDR906B	474,9	326,0	116797	74334	82,6	56,7	61,4	31,7	45	35			A	A	12 x 910	2901,18	252,7	2xDN100	2xDN100
VDDR906C	497,3	328,6	112058	70488	86,5	57,1	45,3	21,9	45	35			A	A	12 x 910	3868,20	336,9	4xDN100	4xDN100
VDDR907A	466,8	339,2	142140	91870	81,2	59,0	11,4	6,5	45	35			A	A	14 x 910	2258,45	196,7	4xDN100	4xDN100
VDDR907B	553,2	379,9	136290	86745	96,2	66,1	51,3	26,5	45	35			A	A	14 x 910	3387,74	295,1	4xDN100	4xDN100
VDDR907C	578,9	382,7	130767	82262	100,7	66,6	33,5	16,2	45	35			A	A	14 x 910	4517,03	393,4	4xDN100	4xDN100
VDDR908A	538,3	390,8	162461	105009	93,6	68,0	16,7	9,4	46	36			A	A	16 x 910	2582,86	225,0	4xDN100	4xDN100
VDDR908B	618,1	425,9	155783	99156	107,5	74,1	10,4	5,4	46	36			A	A	16 x 910	3874,43	337,5	4xDN100	4xDN100
VDDR908C	663,8	438,5	149477	94036	115,4	76,3	48,6	23,5	46	36			A	A	16 x 910	5165,86	450,0	4xDN100	4xDN100

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.

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDDL1002A	257,4	225,6	118412	92991	44,8	39,2	56,1	44,4	59	54	P=2200W I=4,2A n=670 min-1	P=1500W I=2,7A n=530min-1	D	D	4 x 1000	636,5	55,4	2xDN80	2xDN80
VDDL1002B	320,6	273,4	110315	85797	55,8	47,5	40,3	30,6	59	54			D	C	4 x 1000	954,7	83,2	2xDN80	2xDN80
VDDL1002C	361,8	300,5	103038	79628	62,9	52,3	66,9	47,9	59	54			C	C	4 x 1000	1273,0	110,9	2xDN80	2xDN80
VDDL1003A	390,7	342,3	177890	139737	67,9	59,5	77,1	61,0	61	56			D	D	6 x 1000	960,9	83,7	2xDN80	2xDN80
VDDL1003B	486,3	414,6	165851	129023	84,6	72,1	55,4	42,0	61	56			D	C	6 x 1000	1441,4	125,5	2xDN80	2xDN80
VDDL1003C	540,1	448,9	155001	119814	93,9	78,1	40,2	28,8	61	56			C	C	6 x 1000	1921,9	167,4	2xDN100	2xDN100
VDDL1004A	517,7	453,8	237366	186480	90,0	78,9	54,1	42,9	62	57			D	D	8 x 1000	1285,4	111,9	2xDN100	2xDN100
VDDL1004B	1437,1	1195,2	414799	320725	249,9	207,9	27,7	19,9	62	57			B	B	8 x 1000	1928,0	167,9	2xDN100	2xDN100
VDDL1004C	653,3	556,7	221385	172247	113,6	96,8	72,6	55,0	62	57			D	C	8 x 1000	2570,7	223,9	2xDN100	2xDN100
VDDL1005A	726,8	603,8	206962	159997	126,4	105,0	59,7	42,8	63	58			D	D	10 x 1000	1609,8	140,2	2xDN100	2xDN100
VDDL1005B	621,3	545,1	296840	233223	108,1	94,8	13,4	10,7	63	58			D	D	10 x 1000	2414,7	210,3	2xDN100	2xDN100
VDDL1005C	817,9	696,9	276918	215471	142,2	121,2	73,6	55,7	63	58			D	C	10 x 1000	3219,6	280,4	2xDN100	2xDN100
VDDL1006A	907,9	754,4	258922	200179	157,9	131,2	53,3	38,2	64	59			D	D	12 x 1000	1934,2	168,5	2xDN100	2xDN100
VDDL1006B	760,0	666,5	356314	279966	132,2	115,9	23,0	18,2	64	59			D	D	12 x 1000	2901,4	252,7	2xDN100	2xDN100
VDDL1006C	947,8	809,2	332450	258694	164,8	140,7	16,6	12,6	64	59			D	C	12 x 1000	3868,5	336,9	4xDN100	4xDN100
VDDL1007A	1055,2	878,9	310881	240361	183,5	152,9	12,1	8,7	64	59			D	D	14 x 1000	2258,7	196,7	4xDN100	4xDN100
VDDL1007B	899,0	788,1	415788	326708	156,3	137,1	36,1	28,6	64	59			D	D	14 x 1000	3388	295,1	4xDN100	4xDN100
VDDL1007C	1120,4	955,9	387982	301916	194,8	166,2	25,9	19,7	64	59			D	C	14 x 1000	4517,4	393,4	4xDN100	4xDN100
VDDL1008A	1246,0	1037,0	362840	280543	216,7	180,3	18,9	13,6	65	60			D	D	16 x 1000	2583,1	225,0	4xDN100	4xDN100
VDDL1008B	1038,2	909,9	475262	373450	180,6	158,2	53,1	42,0	65	60			D	D	16 x 1000	3874,7	337,5	4xDN100	4xDN100
VDDL1008C	1293,1	1102,7	443514	345139	224,9	191,8	38,2	29,0	65	60			D	C	16 x 1000	5166,2	450,0	4xDN100	4xDN100
VDDQ1002A	204,6	167,3	76972	55589	35,6	29,1	62,0	43,8	45	38	P=860W I=2.0A n=420 min-1	P=500W I=0.97A n=310 min-1	C	B	4 x 1000	636,5	55,4	2xDN80	2xDN80
VDDQ1002B	240,2	186,3	70833	49847	41,8	32,5	24,3	15,4	45	38			B	B	4 x 1000	954,7	83,2	2xDN80	2xDN80
VDDQ1002C	257,1	193,0	64772	45347	44,8	33,6	36,5	22,0	45	38			B	B	4 x 1000	1273,0	110,9	2xDN80	2xDN80
VDDQ1003A	306,8	250,8	115664	83594	53,4	43,7	50,3	35,2	47	40			C	B	6 x 1000	960,9	83,7	2xDN80	2xDN80
VDDQ1003B	369,2	285,9	106551	75018	64,3	49,8	75,9	48,0	47	40			B	B	6 x 1000	1441,4	125,5	2xDN80	2xDN80
VDDQ1003C	389,1	291,8	97537	68283	67,8	50,8	50,0	30,1	47	40			B	B	6 x 1000	1921,9	167,4	2xDN100	2xDN100
VDDQ1004A	412,5	337,4	154354	111598	71,9	58,8	69,3	49,0	48	41			C	B	8 x 1000	1285,4	111,9	2xDN100	2xDN100
VDDQ1004B	493,2	381,9	140972	101922	85,8	66,4	75,0	47,4	48	41			B	B	8 x 1000	1928,0	167,9	2xDN100	2xDN100
VDDQ1004C	519,9	389,9	130300	91217	90,6	67,9	49,4	29,7	48	41			B	B	8 x 1000	2570,7	223,9	2xDN100	2xDN100
VDDQ1005A	515,8	422,0	193044	139602	89,9	73,5	66,8	47,2	49	42			B	B	10 x 1000	1609,8	140,2	2xDN100	2xDN100
VDDQ1005B	612,0	474,4	177981	125360	106,6	82,6	44,2	28,0	49	42			B	B	10 x 1000	2414,7	210,3	2xDN100	2xDN100
VDDQ1005C	652,5	489,2	163063	114151	113,7	85,2	61,2	36,8	49	42			B	B	10 x 1000	3219,6	280,4	2xDN100	2xDN100
VDDQ1006A	597,6	489,2	231733	167605	104,1	85,2	15,0	10,6	50	43			B	B	12 x 1000	1934,2	168,5	2xDN100	2xDN100
VDDQ1006B	741,1	574,0	213694	150530	129,1	100,0	74,1	46,8	50	43			B	B	12 x 1000	2901,4	252,7	2xDN100	2xDN100
VDDQ1006C	781,5	586,1	195825	137084	136,1	102,1	48,8	29,4	50	43			B	B	12 x 1000	3868,5	336,9	4xDN100	4xDN100
VDDQ1007A	706,4	578,0	270422	195608	123,1	100,7	23,5	16,5	50	43			B	B	14 x 1000	2258,7	196,7	4xDN100	4xDN100
VDDQ1007B	840,1	652,0	249408	175700	146,4	113,6	15,7	9,9	50	43			B	B	14 x 1000	3388,0	295,1	4xDN100	4xDN100
VDDQ1007C	888,7	668,4	228586	160018	154,8	116,5	10,4	6,3	50	43			B	B	14 x 1000	4517,4	393,4	4xDN100	4xDN100
VDDQ1008A	815,4	667,0	309111	223611	142,1	116,2	34,6	24,3	51	44			B	B	16 x 1000	2583,1	225,0	4xDN100	4xDN100
VDDQ1008B	968,9	751,9	285121	200869	168,8	131,0	23,0	14,6	51	44			B	B	16 x 1000	3874,7	337,5	4xDN100	4xDN100
VDDQ1008C	1024,1	769,7	261348	182951	178,4	134,1	15,2	9,2	51	44			D	C	16 x 1000	5166,2	450,0	4xDN100	4xDN100
VDDR1002A	190,1	142,1	68190	43533	33,1	24,7	54,5	32,7	43	34	P=670W I=1.4A n=380 min-1	P=330W I=0.67A n=250 min-1	B	B	4 x 1000	636,5	55,4	2xDN80	2xDN80
VDDR1002B	222,8	157,0	62393	39295	38,7	27,3	43,0	23,0	43	34			B	A	4 x 1000	954,7	83,2	2xDN80	2xDN80
VDDR1002C	231,7	157,3	56752	35640	40,3	27,3	30,4	15,4	43	34			B	A	4 x 1000	1273,0	110,9	2xDN80	2xDN80
VDDR1003A	285,1	213,1	102473	65450	49,6	37,1	44,2	26,5	45	36			B	B	6 x 1000	960,9	83,7	2xDN80	2xDN80
VDDR1003B	333,0	235,1	93875	59136	57,9	40,9	28,4	15,3	45	36			B	A	6 x 1000	1441,4	125,5	2xDN80	2xDN80
VDDR1003C	350,6	237,8	85475	53680	61,0	41,4	41,6	21,0	45	36			B	A	6 x 1000	1921,9	167,4	2xDN100	2xDN100
VDDR1004A	383,3	286,3	136755	87365	66,7	49,8	60,9	36,5	46	37			B	A	8 x 1000	1285,4	111,9	2xDN100	2xDN100
VDDR1004B	447,4	315,4	125355	78976	77,8	54,9	37,6	20,1	46	37			B	A	8 x 1000	1928,0	167,9	2xDN100	2xDN100
VDDR1004C	468,5	317,7	114197	71718	81,5	55,3	41,1	20,7	46	37			B	A	8 x 1000	2570,7	223,9	2xDN100	2xDN100
VDDR1005A	479,4	358,1	171036	109281	83,4	62,3	58,7	35,2	47	38			B	A	10 x 1000	1609,8	140,2	2xDN100	2xDN100
VDDR1005B	560,1	394,8	156834	98815	97,4	68,7	38,0	20,3	47	38			B	A	10 x 1000	2414,7	210,3	2xDN100	2xDN100
VDDR1005C	588,0	398,5	142918	89757	102,3	69,3	50,9	25,7	47	38			B	A	10 x 1000	3219,6	280,4	2xDN100	2xDN100
VDDR1006A	555,6	416,2	205317	131196	96,6	72,4	13,2	8,0	48	39			B	B	12 x 1000	1934,2	168,5	2xDN100	2xDN100
VDDR1006B	678,0	477,5	188313	118654	117,9	83,0	63,6	34,0	48	39			B	A	12 x 1000	2901,4	252,7	2xDN100	2xDN100
VDDR1006C	704,3	477,6	171638	107795	122,5	83,1	40,6	20,5	48	39			B	A	12 x 1000	3868,5	336,9	4xDN100	4xDN100
VDDR1007A	656,7	491,5	239598	153111	114,2	85,5	20,7	12,5	48	39			B	B	14 x 1000	2258,7	196,7	4xDN100	4xDN100
VDDR1007B	768,7	543,4	219791	138493	133,7	94,5	13,4	7,2	48	39			B	A	14 x 1000	3388,0	295,1	4xDN100	4xDN100
VDDR1007C	826,4	559,9	200358	125832	143,7	97,4	62,7	31,6	48	39			B	A	14 x 1000	4517,4	393,4	4xDN100	4xDN100
VDDR1008A	757,9	566,8	273879	175026	131,8	98,6	30,4	18,3	49	40			B	B	16 x 1000	2583,1	225,0	4xDN100	4xDN100
VDDR1008B	886,3	626,1	251269	158332	154,1	108,9	19,6	10,6	49	40			B	A	16 x 1000	3874,7	337,5	4xDN100	4xDN100
VDDR1008C	923,7	628,2	229079	143870	160,6	109,3	12,7	6,4	49	40			B	A	16 x 1000	5166,2	450,0	4xDN100	4xDN100

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

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDD6S802A	199,4	233,1	87993	63026	34,7	40,5	15,1	7,8	56	51	P=2000W I=4A n=880 min-1	P=1250W I=2.3A n=660 min-1	E	C	4 x 800	597,5	97,6	2xDN80	2xDN80
VDD6S802B	251,9	171,5	84884	69182	43,8	29,8	13,4	11,5	56	51			D	D	4 x 800	895,5	146,6	2xDN80	2xDN80
VDD6S802C	284,6	211,4	81868	66000	49,5	36,8	11,1	9,9	56	51			D	D	4 x 800	1194,1	195,4	2xDN80	2xDN80
VDD6S803A	310,3	359,5	132092	94726	54,0	62,5	48,0	24,3	58	53			E	C	6 x 800	901,3	147,5	2xDN80	2xDN80
VDD6S803B	390,8	266,7	127476	103879	68,0	46,4	42,9	36,7	58	53			D	D	6 x 800	1352,1	221,1	2xDN80	2xDN80
VDD6S803C	440,0	327,1	122995	99152	76,5	56,9	35,2	31,2	58	53			D	C	6 x 800	1802,8	294,9	2xDN100	2xDN100
VDD6S804A	408,7	472,1	176190	126424	71,1	82,1	27,9	10,5	59	54			E	C	8 x 800	1205,7	197,1	2xDN100	2xDN100
VDD6S804B	522,8	358,5	170067	138575	90,9	62,3	47,0	49,1	59	54			D	D	8 x 800	1808,5	295,8	2xDN100	2xDN100
VDD6S804C	587,4	437,7	164119	132302	102,1	76,1	34,7	34,2	59	54			D	C	8 x 800	2411,4	394,4	2xDN100	2xDN100
VDD6S805A	513,3	593,5	220287	158122	89,3	103,2	32,1	13,1	60	55			E	C	10 x 800	1510,0	247,0	2xDN100	2xDN100
VDD6S805B	651,5	446,7	212658	173271	113,3	77,7	38,7	40,5	60	55			D	D	10 x 800	2265,0	370,5	2xDN100	2xDN100
VDD6S805C	732,2	545,5	205244	165451	127,3	94,9	28,7	28,2	60	55			D	C	10 x 800	3020,0	494,0	2xDN100	2xDN100
VDD6S806A	613,7	709,0	264384	189819	106,7	123,3	27,5	10,4	61	56			E	C	12 x 800	1814,3	296,8	2xDN100	2xDN100
VDD6S806B	781,8	536,6	255248	207966	136,0	93,3	37,7	41,5	61	56			D	D	12 x 800	2721,6	445,2	2xDN100	2xDN100
VDD6S806C	880,8	654,6	246368	198601	153,2	113,8	31,7	27,5	61	56			D	C	12 x 800	3628,73	593,5	4xDN100	4xDN100
VDD6S807A	724,8	835,4	308481	221516	126,1	145,3	42,9	16,1	61	56			E	C	14 x 800	2118,7	346,5	4xDN100	4xDN100
VDD6S807B	907,9	623,0	297839	242662	157,9	108,3	31,2	32,8	61	56			D	D	14 x 800	3178,0	519,9	4xDN100	4xDN100
VDD6S807C	1036,0	770,6	287492	231750	180,2	134,0	49,0	42,7	61	56			D	C	14 x 800	4237,4	693,1	4xDN100	4xDN100
VDD6S808A	836,1	961,9	352578	253214	145,4	167,3	63,0	23,5	62	57			E	C	16 x 800	2423,0	396,4	4xDN100	4xDN100
VDD6S808B	1047,5	718,4	340429	277358	182,2	124,9	46,0	48,2	62	57			D	D	16 x 800	3634,5	594,6	4xDN100	4xDN100
VDD6S808C	1176,8	877,0	328616	264900	204,7	152,5	34,0	33,6	62	57			D	C	16 x 800	4846,0	792,8	4xDN100	4xDN100
VDD6L802A	169,2	148,8	67712	55686	25,9	11776,0	11,3	9,0	49	45	P=1050W I=2.4A n=680 min-1	P=770W I=1.5A n=530 min-1	D	C	4 x 800	597,5	97,6	2xDN80	2xDN80
VDD6L802B	210,0	180,1	65395	53056	31,3	11373,0	9,8	7,4	49	45			C	C	4 x 800	895,5	146,6	2xDN80	2xDN80
VDD6L802C	233,4	196,0	63113	50628	34,1	10976,2	7,8	5,7	49	45			C	C	4 x 800	1194,1	195,4	2xDN80	2xDN80
VDD6L803A	263,0	231,2	101643	83618	40,2	17677,0	35,8	28,5	51	47			C	C	6 x 800	901,3	147,5	2xDN80	2xDN80
VDD6L803B	324,9	278,4	98205	79708	48,4	17079,1	30,9	23,5	51	47			C	C	6 x 800	1352,1	221,1	2xDN80	2xDN80
VDD6L803C	359,8	301,9	94816	76093	52,5	16489,7	24,4	18,0	51	47			C	B	6 x 800	1802,8	294,9	2xDN100	2xDN100
VDD6L804A	353,5	310,7	135573	111549	54,0	23577,9	47,9	38,1	52	48			C	C	8 x 800	1205,7	197,1	2xDN100	2xDN100
VDD6L804B	434,6	372,4	131015	106359	64,8	22785,2	33,8	25,7	52	48			C	C	8 x 800	1808,5	295,8	2xDN100	2xDN100
VDD6L804C	486,4	408,0	126518	101558	71,0	22003,1	54,4	40,2	52	48			C	B	8 x 800	2411,4	394,4	2xDN100	2xDN100
VDD6L805A	440,4	387,1	169504	139480	67,3	29479,0	39,5	31,4	53	49			C	C	10 x 800	1510,0	247,0	2xDN100	2xDN100
VDD6L805B	541,6	464,2	163824	133010	80,7	28491,1	27,9	21,2	53	49			C	C	10 x 800	2265,0	370,5	2xDN100	2xDN100
VDD6L805C	606,9	509,1	158220	127022	88,5	27516,5	45,0	33,2	53	49			C	B	10 x 800	3020,0	494,0	2xDN100	2xDN100
VDD6L806A	529,0	465,0	203434	167410	80,9	35379,8	40,5	32,2	54	50			C	C	12 x 800	1814,3	296,8	2xDN100	2xDN100
VDD6L806B	649,9	557,1	196633	159661	96,9	34197,0	27,2	20,7	54	50			C	C	12 x 800	2721,6	445,2	2xDN100	2xDN100
VDD6L806C	725,3	608,7	189920	152485	105,9	33029,6	33,2	24,5	54	50			C	B	12 x 800	3628,73	593,5	4xDN100	4xDN100
VDD6L807A	614,1	539,9	237364	195341	93,9	41280,7	32,0	25,5	54	50			C	C	14 x 800	2118,7	346,5	4xDN100	4xDN100
VDD6L807B	765,0	655,6	229441	186311	114,0	39902,8	42,1	32,0	54	50			C	C	14 x 800	3178,0	519,9	4xDN100	4xDN100
VDD6L807C	852,0	714,7	221622	177949	124,3	38543,0	51,2	37,8	54	50			C	B	14 x 800	4237,4	693,1	4xDN100	4xDN100
VDD6L808A	708,2	622,4	271294	223271	108,3	47181,6	47,0	37,4	55	51			C	C	16 x 800	2423,0	396,4	4xDN100	4xDN100
VDD6L808B	870,6	746,2	262250	212962	129,8	45608,7	33,1	25,2	55	51			C	C	16 x 800	3634,5	594,6	4xDN100	4xDN100
VDD6L808C	973,5	816,7	253323	203413	142,0	44056,2	49,4	36,5	55	51			C	B	16 x 800	4846,0	792,8	4xDN100	4xDN100
VDD6Q802A	122,8	102,7	42046	32798	17,9	7312,3	6,4	4,7	40	33	P=370W I=1.2A n=440 min-1	P=200W I=0.5A n=340 min-1	B	A	4 x 800	597,5	97,6	2xDN80	2xDN80
VDD6Q802B	146,2	118,5	40340	31050	20,6	7015,7	5,2	3,5	40	33			B	A	4 x 800	895,5	146,6	2xDN80	2xDN80
VDD6Q802C	157,1	124,6	38687	29492	21,7	6728,2	3,9	2,6	40	33			A	A	4 x 800	1194,1	195,4	2xDN80	2xDN80
VDD6Q803A	190,4	159,3	63125	49258	27,7	10978,3	20,3	14,9	42	35			B	A	6 x 800	901,3	147,5	2xDN80	2xDN80
VDD6Q803B	225,4	182,8	60592	46656	31,8	10537,7	16,1	11,1	42	35			A	A	6 x 800	1352,1	221,1	2xDN80	2xDN80
VDD6Q803C	241,5	191,4	58135	44333	33,3	10110,4	12,1	8,0	42	35			A	A	6 x 800	1802,8	294,9	2xDN100	2xDN100
VDD6Q804A	258,4	215,8	84203	65717	37,5	14644,0	46,0	33,4	43	36			B	A	8 x 800	1205,7	197,1	2xDN100	2xDN100
VDD6Q804B	304,8	247,1	80844	62262	43,0	14059,8	36,0	25	43	36			A	A	8 x 800	1808,5	295,8	2xDN100	2xDN100
VDD6Q804C	326,0	258,1	77583	59175	44,9	13492,7	27,1	17,9	43	36			A	A	8 x 800	2411,4	394,4	2xDN100	2xDN100
VDD6Q805A	323,8	270,5	105281	82175	47,0	18309,7	51,3	37,2	44	37			B	A	10 x 800	1510,0	247,0	2xDN100	2xDN100
VDD6Q805B	380,8	308,7	101096	77867	53,7	17581,9	33,0	22,9	44	37			A	A	10 x 800	2265,0	370,5	2xDN100	2xDN100
VDD6Q805C	410,5	324,8	97031	74015	56,5	16875,0	50,4	33,4	44	37			A	A	10 x 800	3020,0	494,0	2xDN100	2xDN100
VDD6Q806A	386,8	323,1	126359	98634	56,2	21975,5	37,7	27,4	45	38			B	A	12 x 800	1814,3	296,8	2xDN100	2xDN100
VDD6Q806B	460,3	373,0	121347	93472	64,9	21103,8	55,0	38,1	45	38			A	A	12 x 800	2721,6	445,2	2xDN100	2xDN100
VDD6Q806C	491,4	388,9	116478	88856	67,6	20257,0	37,3	24,7	45	38			A	A	12 x 800	3628,73	593,5	4xDN100	4xDN100
VDD6Q807A	451,0	376,8	147437	115092	65,5	25641,2	35,7	25,9	45	38			B	A	14 x 800	2118,7	346,5	4xDN100	4xDN100
VDD6Q807B	534,6	433,4	141598	109077	75,4	24625,7	37,5	26,0	45	38			A	A	14 x 800	3178,0	519,9	4xDN100	4xDN100
VDD6Q807C	571,0	452,1	135925	103697	78,6	23639,1	25,4	16,9	45	38			A	A	14 x 800	4237,4	693,1	4xDN100	4xDN100
VDD6Q808A	518,9	433,4	168515	131551	75,4	29307,0	52,1	37,9	46	39			B	A	16 x 800	2423,0	396,4	4xDN100	4xDN100
VDD6Q808B	614,1	497,7	161850	124682	86,6	28147,8	54,6	37,8	46	39			A	A	16 x 800	3634,5	594,6	4xDN100	4xDN100
VDD6Q808C	655,6	518,8	155372	118538	90,2	27021,2	37,0	24,5	46	39			A	A	16 x 800	4846,0	792,8	4xDN100	4xDN100

Nominal capacities according to standard EN1048 (water Tair=25°C, Tin=40°C,Tout=35°C).
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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m^3/h		m^3/h		kPa		(10m)						N° x D [mm]	m^2	dm^3	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDD6R802A	110,0	78,2	36062	22827	13,6	6271,7	5,3	2,9	36	25	P=250W I=0.62A n=380 min-1	P=110W I=0.27A n=240 min-1	A	A	4 x 800	597,5	97,6	2xDN80	2xDN80
VDD6R802B	128,7	87,2	34389	21447	15,2	5980,7	4,1	2,1	36	25			A	A	4 x 800	895,5	146,6	2xDN80	2xDN80
VDD6R802C	136,7	89,3	32828	20223	15,5	5709,2	3,0	1,4	36	25			A	A	4 x 800	1194,1	195,4	2xDN80	2xDN80
VDD6R803A	170,7	121,0	54149	34288	21,0	9417,2	16,8	9,1	38	27			A	A	6 x 800	901,3	147,5	2xDN80	2xDN80
VDD6R803B	198,6	134,2	51663	32235	23,3	8984,9	12,9	6,5	38	27			A	A	6 x 800	1352,1	221,1	2xDN80	2xDN80
VDD6R803C	210,0	136,8	49339	30410	23,8	8580,7	9,5	4,4	38	27			A	A	6 x 800	1802,8	294,9	2xDN100	2xDN100
VDD6R804A	231,4	163,9	72235	45748	28,5	12562,6	37,8	20,6	39	28			A	A	8 x 800	1205,7	197,1	2xDN100	2xDN100
VDD6R804B	268,4	181,1	68937	43022	31,5	11989,0	28,9	14,4	39	28			A	A	8 x 800	1808,5	295,8	2xDN100	2xDN100
VDD6R804C	283,3	184,3	65850	40596	32,0	11452,2	21,1	9,9	39	28			A	A	8 x 800	2411,4	394,4	2xDN100	2xDN100
VDD6R805A	289,9	205,4	90321	57208	35,7	15708,0	42,1	23,0	40	29			A	A	10 x 800	1510,0	247,0	2xDN100	2xDN100
VDD6R805B	338,4	228,1	86210	53809	39,7	14993,0	53,9	26,9	40	29			A	A	10 x 800	2265,0	370,5	2xDN100	2xDN100
VDD6R805C	356,6	231,7	82361	50782	40,3	14323,7	39,4	18,4	40	29			A	A	10 x 800	3020,0	494,0	2xDN100	2xDN100
VDD6R806A	346,4	245,5	108407	68669	42,7	18853,4	31,0	16,9	41	30			A	A	12 x 800	1814,3	296,8	2xDN100	2xDN100
VDD6R806B	405,3	273,3	103483	64595	47,5	17997,0	44,1	22,0	41	30			A	A	12 x 800	2721,6	445,2	2xDN100	2xDN100
VDD6R806C	426,9	277,5	98871	60968	48,3	17195,0	29,1	13,6	41	30			A	A	12 x 800	3628,73	593,5	4xDN100	4xDN100
VDD6R807A	407,1	288,3	126493	80129	50,1	21998,8	47,9	26,1	41	30			A	A	14 x 800	2118,7	346,5	4xDN100	4xDN100
VDD6R807B	470,8	317,7	120756	75382	55,2	21001,0	30,1	15,0	41	30			A	A	14 x 800	3178,0	519,9	4xDN100	4xDN100
VDD6R807C	500,2	325,0	115382	71153	56,5	20066,4	44,7	20,9	41	30			A	A	14 x 800	4237,4	693,1	4xDN100	4xDN100
VDD6R808A	464,6	329,1	144579	91589	57,2	25144,2	42,8	23,4	42	31			A	A	16 x 800	2423,0	396,4	4xDN100	4xDN100
VDD6R808B	540,8	364,6	138029	86169	63,4	24005,0	43,8	21,9	42	31			A	A	16 x 800	3634,5	594,6	4xDN100	4xDN100
VDD6R808C	569,5	370,3	131892	81339	64,4	22937,7	28,9	13,5	42	31			A	A	16 x 800	4846,0	792,8	4xDN100	4xDN100

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

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDD6T902A	246,4	311,2	126434	92431	42,9	54,1	21,8	13,02	62	57			E	D	4 x 910	597,5	97,6	2xDN80	2xDN80
VDD6T902B	318,5	220,3	121263	103863	55,4	38,3	20,3	17,96	62	57			E	E	4 x 910	895,5	146,6	2xDN80	2xDN80
VDD6T902C	365,2	277,5	115728	98011	63,5	48,3	17,3	15,93	62	57			E	E	4 x 910	1194,1	195,4	2xDN80	2xDN80
VDD6T903A	379,2	472,6	189803	138994	65,9	82,2	41,3	17,9	64	59			E	C	6 x 910	901,3	147,5	2xDN80	2xDN80
VDD6T903B	485,8	338,4	182162	155983	84,5	58,8	31,2	33,74	64	59			E	E	6 x 910	1352,1	221,1	2xDN80	2xDN80
VDD6T903C	554,7	423,1	173952	147300	96,5	73,6	23,8	24,41	64	59			E	E	6 x 910	1802,8	294,9	2xDN100	2xDN100
VDD6T904A	506,3	631,2	253171	185556	88,0	109,8	40,7	17,68	65	60			E	D	8 x 910	1205,7	197,1	2xDN100	2xDN100
VDD6T904B	648,7	451,8	243058	208102	112,8	78,6	30,8	33,32	65	60			D	D	8 x 910	1808,5	295,8	2xDN100	2xDN100
VDD6T904C	755,1	576,4	232173	196586	131,3	100,2	53,9	55,45	65	60			E	D	8 x 910	2411,4	394,4	2xDN100	2xDN100
VDD6T905A	636,1	794,1	316539	232116	110,6	138,1	47,0	21,99	66	61			E	D	10 x 910	1510,0	247,0	2xDN100	2xDN100
VDD6T905B	813,8	567,7	303953	260220	141,5	98,7	33,7	38,39	66	61	P=3600W I=7,2A n=890 min-1	P=2500W I=4,2A n=700min-1	E	E	10 x 910	2265,0	370,5	2xDN100	2xDN100
VDD6T905C	941,1	718,3	290393	245872	163,7	124,9	44,5	45,69	66	61			D	D	10 x 910	3020,0	494,0	2xDN100	2xDN100
VDD6T906A	760,4	948,3	379906	278676	132,3	164,9	40,2	17,45	67	62			E	C	12 x 910	1814,3	296,8	2xDN100	2xDN100
VDD6T906B	974,4	678,7	364848	312337	169,5	118,0	30,4	32,88	67	62			E	E	12 x 910	2721,6	445,2	2xDN100	2xDN100
VDD6T906C	1132,5	862,0	348612	295157	197,0	149,9	49,2	44,55	67	62			D	D	12 x 910	3628,73	593,5	4xDN100	4xDN100
VDD6T907A	898,5	1118,5	443272	325236	156,3	194,5	62,8	27,16	67	62			E	C	14 x 910	2118,7	346,5	4xDN100	4xDN100
VDD6T907B	1150,7	801,8	425742	364454	200,1	139,4	47,4	51,31	67	62			D	D	14 x 910	3178,0	519,9	4xDN100	4xDN100
VDD6T907C	1313,0	1002,0	406831	344442	228,3	174,3	36,1	37,09	67	62			D	D	14 x 910	4237,4	693,1	4xDN100	4xDN100
VDD6T908A	971,1	1220,0	506639	371796	168,9	212,2	11,9	5,28	69	63			E	D	16 x 910	2423,0	396,4	4xDN100	4xDN100
VDD6T908B	1327,3	925,0	486637	416572	230,8	160,9	69,5	75,28	69	63			D	D	16 x 910	3634,5	594,6	4xDN100	4xDN100
VDD6T908C	1513,6	1155,4	465050	393727	263,2	200,9	52,9	54,39	69	63			D	D	16 x 910	4846,0	792,8	4xDN100	4xDN100
VDD6S902A	200,5	233,8	88812	63259	34,9	40,7	15,2	7,83	58	53			D	C	4 x 910	597,5	97,6	2xDN80	2xDN80
VDD6S902B	252,9	172,4	85402	69724	44,0	30,0	13,5	11,64	58	53			D	D	4 x 910	895,5	146,6	2xDN80	2xDN80
VDD6S902C	285,0	212,3	82038	66400	49,6	36,9	11,1	9,99	58	53			C	C	4 x 910	1194,1	195,4	2xDN80	2xDN80
VDD6S903A	307,8	354,7	133328	95086	53,5	61,7	28,5	10,73	60	55			D	C	6 x 910	901,3	147,5	2xDN80	2xDN80
VDD6S903B	392,4	268,1	128271	104695	68,3	46,6	43,2	37,06	60	55			D	D	6 x 910	1352,1	221,1	2xDN80	2xDN80
VDD6S903C	440,7	328,6	123272	99759	76,6	57,1	35,3	31,5	60	55			C	C	6 x 910	1802,8	294,9	2xDN100	2xDN100
VDD6S904A	411,0	473,5	177843	126912	71,5	82,4	28,2	10,59	61	56			D	C	8 x 910	1205,7	197,1	2xDN100	2xDN100
VDD6S904B	514,5	353,1	171137	139666	89,5	61,4	20,4	21,55	61	56			D	D	8 x 910	1808,5	295,8	2xDN100	2xDN100
VDD6S904C	588,4	439,6	164504	133117	102,3	76,5	34,9	34,52	61	56			C	C	8 x 910	2411,4	394,4	2xDN100	2xDN100
VDD6S905A	516,3	595,3	222358	158737	89,8	103,5	32,5	13,15	62	57			D	C	10 x 910	1510,0	247,0	2xDN100	2xDN100
VDD6S905B	654,3	448,9	214003	174636	113,8	78,1	39,0	40,84	62	57	P=1650W I=3.5A n=860 min-1	P=1100W I=1.8A n=660 min-1	D	D	10 x 910	2265,0	370,5	2xDN100	2xDN100
VDD6S905C	732,9	547,9	205736	166475	127,5	95,3	28,5	28,45	62	57			C	C	10 x 910	3020,0	494,0	2xDN100	2xDN100
VDD6S906A	617,3	711,2	266872	190562	107,4	123,7	27,8	10,45	63	58			D	C	12 x 910	1814,3	296,8	2xDN100	2xDN100
VDD6S906B	785,2	539,4	256869	209606	136,6	93,8	38,0	41,87	63	58			D	D	12 x 910	2721,6	445,2	2xDN100	2xDN100
VDD6S906C	882,4	657,5	246967	199832	153,5	114,4	31,8	27,74	63	58			C	C	12 x 910	3628,73	593,5	4xDN100	4xDN100
VDD6S907A	729,0	838,0	311386	222386	126,8	145,7	43,4	16,21	63	58			D	C	14 x 910	2118,7	346,5	4xDN100	4xDN100
VDD6S907B	911,9	626,2	299735	244576	158,6	108,9	31,4	33,15	63	58			D	D	14 x 910	3178,0	519,9	4xDN100	4xDN100
VDD6S907C	1037,9	774,0	288198	233189	180,5	134,6	49,2	43	63	58			C	C	14 x 910	4237,4	693,1	4xDN100	4xDN100
VDD6S908A	840,9	964,9	355900	254211	146,2	167,8	63,6	23,67	64	59			D	C	16 x 910	2423,0	396,4	4xDN100	4xDN100
VDD6S908B	1052,2	722,1	342601	279546	183,0	125,6	46,4	48,6	64	59			D	C	16 x 910	3634,5	594,6	4xDN100	4xDN100
VDD6S908C	1179,0	880,9	329429	266546	205,1	153,2	34,2	33,83	64	59			C	C	16 x 910	4846,0	792,8	4xDN100	4xDN100
VDD6L902A	166,2	131,3	65853	46320	28,9	22,8	10,9	7,19	51	44			C	B	4 x 910	597,5	97,6	2xDN80	2xDN80
VDD6L902B	204,7	155,4	63130	43679	35,6	27,0	9,4	5,73	51	44			C	B	4 x 910	895,5	146,6	2xDN80	2xDN80
VDD6L902C	226,0	166,3	60591	41419	39,3	28,9	7,4	4,29	51	44			C	B	4 x 910	1194,1	195,4	2xDN80	2xDN80
VDD6L903A	258,3	203,8	98871	69573	44,9	35,4	34,7	22,85	53	46			C	B	6 x 910	901,3	147,5	2xDN80	2xDN80
VDD6L903B	316,7	240,0	94824	65638	55,1	41,7	29,5	18,08	53	46			C	B	6 x 910	1352,1	221,1	2xDN80	2xDN80
VDD6L903C	348,4	255,9	91045	62265	60,6	44,5	23,0	13,41	53	46			B	B	6 x 910	1802,8	294,9	2xDN100	2xDN100
VDD6L904A	347,2	273,9	131888	92826	60,4	47,6	46,4	30,55	54	47			C	B	8 x 910	1205,7	197,1	2xDN100	2xDN100
VDD6L904B	423,6	321,1	126517	87596	73,7	55,8	32,3	19,8	54	47			C	B	8 x 910	1808,5	295,8	2xDN100	2xDN100
VDD6L904C	465,1	341,6	121499	83111	80,9	59,4	22,7	13,24	54	47			B	B	8 x 910	2411,4	394,4	2xDN100	2xDN100
VDD6L905A	432,5	341,3	164904	116078	75,2	59,4	38,3	25,17	55	48			C	B	10 x 910	1510,0	247,0	2xDN100	2xDN100
VDD6L905B	535,9	405,6	158210	109554	93,2	70,5	60,7	36,91	55	48	P=900W I=2.2A n=640 min-1	P=470W I=1.05A n=440 min-1	C	B	10 x 910	2265,0	370,5	2xDN100	2xDN100
VDD6L905C	588,2	431,3	151952	103957	102,3	75,0	42,9	24,79	55	48			B	B	10 x 910	3020,0	494,0	2xDN100	2xDN100
VDD6L906A	525,0	414,0	197921	139330	91,3	72,0	64,3	42,26	56	49			C	B	12 x 910	1814,3	296,8	2xDN100	2xDN100
VDD6L906B	640,2	485,1	189903	131511	111,3	84,4	44,7	27,41	56	49			C	B	12 x 910	2721,6	445,2	2xDN100	2xDN100
VDD6L906C	703,0	515,7	182405	124802	122,3	89,7	31,6	18,28	56	49			B	B	12 x 910	3628,73	593,5	4xDN100	4xDN100
VDD6L907A	612,1	482,8	230938	162583	106,5	84,0	60,8	40,02	56	49			C	B	14 x 910	2118,7	346,5	4xDN100	4xDN100
VDD6L907B	745,8	565,3	221595	153469	129,7	98,3	40,2	24,76	56	49			C	B	14 x 910	3178,0	519,9	4xDN100	4xDN100
VDD6L907C	825,8	605,4	212858	145648	143,6	105,3	48,8	28,21	56	49			B	B	14 x 910	4237,4	693,1	4xDN100	4xDN100
VDD6L908A	695,6	548,8	263954	185835	121,0	95,4	45,5	29,94	57	50			C	B	16 x 910	2423,0	396,4	4xDN100	4xDN100
VDD6L908B	858,1	649,6	253287	175427	149,2	113,0	58,8	35,75	57	50			C	B	16 x 910	3634,5	594,6	4xDN100	4xDN100
VDD6L908C	943,6	691,8	243311	166493	164,1	120,3	47,1	27,21	57	50			B	B	16 x 910	4846,0	792,8	4xDN100	4xDN100

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.

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp [dB(A)]*		Motor (3/400V-50Hz)		E.E.C.**		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDD6Q902A	124,5	105,6	42911	34059	21,7	18,4	6,5	4,89	41	35	P=270W I=0.7A n=390 min-1	P=140W I=0.32A n=250 min-1	B	A	4 x 910	597,5	97,6	2xDN80	2xDN80
VDD6Q902B	148,0	121,7	40969	32090	25,7	21,2	5,3	3,7	41	35			A	A	4 x 910	895,5	146,6	2xDN80	2xDN80
VDD6Q902C	158,6	127,7	39147	30345	27,6	22,2	3,9	2,69	41	35			A	A	4 x 910	1194,1	195,4	2xDN80	2xDN80
VDD6Q903A	193,2	163,8	64431	51156	33,6	28,5	20,8	15,61	43	37			B	A	6 x 910	901,3	147,5	2xDN80	2xDN80
VDD6Q903B	228,1	187,8	61546	48225	39,7	32,7	16,4	11,69	43	37			A	A	6 x 910	1352,1	221,1	2xDN80	2xDN80
VDD6Q903C	244,0	196,2	58835	45625	42,4	34,1	12,3	8,4	43	37			A	A	6 x 910	1802,8	294,9	2xDN100	2xDN100
VDD6Q904A	262,2	221,9	85951	68253	45,6	38,6	47,2	35,09	44	38			B	A	8 x 910	1205,7	197,1	2xDN100	2xDN100
VDD6Q904B	308,6	253,9	82122	64360	53,7	44,2	36,8	26,18	44	38			A	A	8 x 910	1808,5	295,8	2xDN100	2xDN100
VDD6Q904C	329,4	264,7	78522	60904	57,3	46,0	27,6	18,75	44	38			A	A	8 x 910	2411,4	394,4	2xDN100	2xDN100
VDD6Q905A	328,6	278,1	107471	85350	57,1	48,4	52,6	39,1	45	39			B	A	10 x 910	1510,0	247,0	2xDN100	2xDN100
VDD6Q905B	385,6	317,2	102698	80495	67,1	55,2	33,7	23,98	45	39			A	A	10 x 910	2265,0	370,5	2xDN100	2xDN100
VDD6Q905C	414,8	333,1	98209	76183	72,1	57,9	51,3	34,9	45	39			A	A	10 x 910	3020,0	494,0	2xDN100	2xDN100
VDD6Q906A	392,5	332,3	128990	102447	68,3	57,8	38,7	28,8	46	40			B	A	12 x 910	1814,3	296,8	2xDN100	2xDN100
VDD6Q906B	466,1	383,3	123274	96630	81,1	66,7	56,2	39,98	46	40			A	A	12 x 910	2721,6	445,2	2xDN100	2xDN100
VDD6Q906C	496,5	398,9	117896	91461	86,3	69,4	37,9	25,81	46	40			A	A	12 x 910	3628,73	593,5	4xDN100	4xDN100
VDD6Q907A	457,6	387,5	150509	119543	79,6	67,4	36,7	27,28	46	40			B	A	14 x 910	2118,7	346,5	4xDN100	4xDN100
VDD6Q907B	541,3	445,3	143850	112765	94,1	77,4	38,4	27,29	46	40			A	A	14 x 910	3178,0	519,9	4xDN100	4xDN100
VDD6Q907C	581,9	467,3	137582	106740	101,2	81,3	58,4	39,67	46	40			A	A	14 x 910	4237,4	693,1	4xDN100	4xDN100
VDD6Q908A	526,5	445,7	172029	136640	91,6	77,5	53,5	39,79	47	41			B	A	16 x 910	2423,0	396,4	4xDN100	4xDN100
VDD6Q908B	621,8	511,4	164426	128899	108,1	88,9	55,8	39,71	47	41			A	A	16 x 910	3634,5	594,6	4xDN100	4xDN100
VDD6Q908C	662,4	532,2	157269	122018	115,2	92,5	37,7	25,64	47	41			A	A	16 x 910	4846,0	792,8	4xDN100	4xDN100
VDD6R902A	118,6	85,7	40031	25725	20,6	14,9	6,0	3,41	40	30	P=270W I=0.7A n=390 min-1	P=140W I=0.32A n=250 min-1	A	A	4 x 910	597,5	97,6	2xDN80	2xDN80
VDD6R902B	139,8	96,2	38117	24106	24,3	16,7	4,8	2,45	40	30			A	A	4 x 910	895,5	146,6	2xDN80	2xDN80
VDD6R902C	149,0	99,1	36347	22719	25,9	17,2	3,5	1,72	40	30			A	A	4 x 910	1194,1	195,4	2xDN80	2xDN80
VDD6R903A	184,1	132,7	60111	38645	32,0	23,1	19,2	10,75	42	32			A	A	6 x 910	901,3	147,5	2xDN80	2xDN80
VDD6R903B	215,5	148,2	57266	36232	37,5	25,8	14,8	7,69	42	32			A	A	6 x 910	1352,1	221,1	2xDN80	2xDN80
VDD6R903C	229,1	151,9	54632	34163	39,8	26,4	11,0	5,36	42	32			A	A	6 x 910	1802,8	294,9	2xDN100	2xDN100
VDD6R904A	249,5	179,7	80191	51565	43,4	31,3	43,2	24,14	43	33			A	A	8 x 910	1205,7	197,1	2xDN100	2xDN100
VDD6R904B	291,4	200,1	76414	48358	50,7	34,8	33,2	17,21	43	33			A	A	8 x 910	1808,5	295,8	2xDN100	2xDN100
VDD6R904C	309,2	204,7	72915	45606	53,8	35,6	24,7	11,94	43	33			A	A	8 x 910	2411,4	394,4	2xDN100	2xDN100
VDD6R905A	312,7	225,2	100270	64484	54,4	39,2	48,1	26,89	44	34			A	A	10 x 910	1510,0	247,0	2xDN100	2xDN100
VDD6R905B	364,1	250,1	95562	60484	63,3	43,5	30,4	15,76	44	34			A	A	10 x 910	2265,0	370,5	2xDN100	2xDN100
VDD6R905C	389,4	257,5	91198	57049	67,7	44,8	45,9	22,19	44	34			A	A	10 x 910	3020,0	494,0	2xDN100	2xDN100
VDD6R906A	373,6	269,1	120350	77403	65,0	46,8	35,5	19,82	45	35			A	A	12 x 910	1814,3	296,8	2xDN100	2xDN100
VDD6R906B	440,1	302,1	114710	72610	76,5	52,5	50,7	26,26	45	35			A	A	12 x 910	2721,6	445,2	2xDN100	2xDN100
VDD6R906C	466,1	308,4	109481	68492	81,1	53,6	33,9	16,42	45	35			A	A	12 x 910	3628,73	593,5	4xDN100	4xDN100
VDD6R907A	439,1	316,2	140429	90322	76,4	55,0	54,8	30,61	45	35			A	A	14 x 910	2118,7	346,5	4xDN100	4xDN100
VDD6R907B	511,1	351,0	133858	84735	88,9	61,0	34,6	17,94	45	35			A	A	14 x 910	3178,0	519,9	4xDN100	4xDN100
VDD6R907C	546,2	361,2	127764	79935	95,0	62,8	52,2	25,22	45	35			A	A	14 x 910	4237,4	693,1	4xDN100	4xDN100
VDD6R908A	501,1	360,9	160508	103242	87,1	62,8	49,0	27,37	46	36			A	A	16 x 910	2423,0	396,4	4xDN100	4xDN100
VDD6R908B	587,1	403,0	153006	96861	102,1	70,1	50,3	26,09	46	36			A	A	16 x 910	3634,5	594,6	4xDN100	4xDN100
VDD6R908C	621,8	411,5	146047	91378	108,1	71,6	33,7	16,31	46	36			A	A	16 x 910	4846,0	792,8	4xDN100	4xDN100

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

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Model	Capacity		Airflow		Fluid flow		Pressure drop fluid		Lp[dB(A)]		Motor (3/400V-50Hz)		E.E.C.		Fans	Surface	Tube volume	Conn.	
	kW		m³/h		m³/h		kPa		(10m)						N° x D [mm]	m²	dm³	mm	
	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y	Δ	Y				Inlet	Outlet
VDD6L1002A	234,9	203,3	116023	90821	40,9	35,4	20,1	15,6	59	54	P=2200W I=4,2A n=670 min-1	P=1500W I=2,7A n=530min-1	E	D	4 x 1000	597,5	97,6	2xDN80	2xDN80
VDD6L1002B	294,0	248,1	107055	83006	51,1	43,1	17,6	13,1	59	54			D	D	4 x 1000	895,5	146,6	2xDN80	2xDN80
VDD6L1002C	327,7	270,5	99278	76517	57,0	47,0	14,3	10,1	59	54			D	C	4 x 1000	1194,1	195,4	2xDN80	2xDN80
VDD6L1003A	361,1	312,3	174343	136508	62,8	54,3	37,9	29,3	61	56			D	D	6 x 1000	901,3	147,5	2xDN80	2xDN80
VDD6L1003B	448,6	378,3	160994	124859	78,0	65,8	27,1	20,0	61	56			D	D	6 x 1000	1352,1	221,1	2xDN80	2xDN80
VDD6L1003C	507,3	418,5	149386	115161	88,2	72,8	45,0	32,1	61	56			D	C	6 x 1000	1802,8	294,9	2xDN100	2xDN100
VDD6L1004A	482,3	417,1	232659	182193	83,9	72,5	37,4	28,9	62	57			D	D	8 x 1000	1205,7	197,1	2xDN100	2xDN100
VDD6L1004B	599,2	505,3	214931	166710	104,2	87,9	26,7	19,8	62	57			D	D	8 x 1000	1808,5	295,8	2xDN100	2xDN100
VDD6L1004C	677,7	559,0	199491	153803	117,9	97,2	44,5	31,7	62	57			D	C	8 x 1000	2411,4	394,4	2xDN100	2xDN100
VDD6L1005A	606,1	524,1	290975	227878	105,4	91,1	43,1	33,3	63	58			D	D	10 x 1000	1510,0	247,0	2xDN100	2xDN100
VDD6L1005B	762,1	642,8	268867	208561	132,5	111,8	50,7	37,8	63	58			D	D	10 x 1000	2265,0	370,5	2xDN100	2xDN100
VDD6L1005C	844,9	697,2	249595	192444	146,9	121,2	36,7	26,2	63	58			D	C	10 x 1000	3020,0	494,0	2xDN100	2xDN100
VDD6L1006A	724,7	626,7	349290	273562	126,0	109,0	36,9	28,6	64	59			D	D	12 x 1000	1814,3	296,8	2xDN100	2xDN100
VDD6L1006B	900,4	759,3	322802	250411	156,6	132,0	26,4	19,5	64	59			D	D	12 x 1000	2721,6	445,2	2xDN100	2xDN100
VDD6L1006C	1016,9	838,9	299699	231085	176,9	145,9	40,6	29,0	64	59			D	C	12 x 1000	3628,73	593,5	4xDN100	4xDN100
VDD6L1007A	856,2	740,2	407605	319246	148,9	128,7	57,6	44,6	64	59			D	D	14 x 1000	2118,7	346,5	4xDN100	4xDN100
VDD6L1007B	1063,2	897,0	376737	292260	184,9	156,0	41,2	30,7	64	59			D	D	14 x 1000	3178,0	519,9	4xDN100	4xDN100
VDD6L1007C	1197,0	986,8	349802	269725	208,2	171,6	63	44,8	64	59			D	C	14 x 1000	4237,4	693,1	4xDN100	4xDN100
VDD6L1008A	925,9	802,7	465920	364929	161,0	139,6	10,9	8,6	65	60			E	D	16 x 1000	2423,0	396,4	4xDN100	4xDN100
VDD6L1008B	1226,2	1034,0	430672	334110	213,3	179,8	60,4	45,0	65	60			D	D	16 x 1000	3634,5	594,6	4xDN100	4xDN100
VDD6L1008C	1359,2	1121,2	399906	308366	236,4	195,0	43,7	31,1	65	60			D	C	16 x 1000	4846,0	792,8	4xDN100	4xDN100
VDD6Q1002A	180,9	145,4	75193	53790	31,5	25,3	12,7	8,6	45	38	P=860W I=2.0A n=420 min-1	P=500W I=0.97A n=310 min-1	C	B	4 x 1000	597,5	97,6	2xDN80	2xDN80
VDD6Q1002B	216,3	166,4	68172	47770	37,6	28,9	10,3	6,5	45	38			C	B	4 x 1000	895,5	146,6	2xDN80	2xDN80
VDD6Q1002C	228,9	172,1	61551	43192	39,8	29,9	7,5	4,6	45	38			B	B	4 x 1000	1194,1	195,4	2xDN80	2xDN80
VDD6Q1003A	281,5	226,1	113018	80911	49,0	39,3	40,4	27,4	47	40			C	B	6 x 1000	901,3	147,5	2xDN80	2xDN80
VDD6Q1003B	335,3	257,7	102600	71912	58,3	44,8	32,6	20,6	47	40			C	B	6 x 1000	1352,1	221,1	2xDN80	2xDN80
VDD6Q1003C	353,5	265,4	92728	65051	61,5	46,2	23,6	14,3	47	40			B	B	6 x 1000	1802,8	294,9	2xDN100	2xDN100
VDD6Q1004A	378,6	304,0	150841	108030	65,8	52,9	54,1	36,7	48	41			C	B	8 x 1000	1205,7	197,1	2xDN100	2xDN100
VDD6Q1004B	448,9	344,9	137026	96052	78,1	60,0	35,8	22,6	48	41			B	B	8 x 1000	1808,5	295,8	2xDN100	2xDN100
VDD6Q1004C	478,8	358,7	123902	86908	83,3	62,4	53,3	32,0	48	41			B	B	8 x 1000	2411,4	394,4	2xDN100	2xDN100
VDD6Q1005A	471,7	378,9	188663	135149	82,0	65,9	44,6	30,3	49	42			C	B	10 x 1000	1510,0	247,0	2xDN100	2xDN100
VDD6Q1005B	559,7	430,2	171451	120192	97,3	74,8	29,5	18,6	49	42			B	B	10 x 1000	2265,0	370,5	2xDN100	2xDN100
VDD6Q1005C	597,8	447,9	155076	108766	104,0	77,9	44,1	26,5	49	42			B	B	10 x 1000	3020,0	494,0	2xDN100	2xDN100
VDD6Q1006A	566,8	455,3	226484	162268	98,6	79,2	45,7	31,0	50	43			B	B	12 x 1000	1814,3	296,8	2xDN100	2xDN100
VDD6Q1006B	678,9	521,3	205875	144331	118,1	90,7	49,6	31,2	50	43			B	B	12 x 1000	2721,6	445,2	2xDN100	2xDN100
VDD6Q1006C	714,2	535,8	186249	130624	124,2	93,2	32,2	19,5	50	43			C	B	12 x 1000	3628,73	593,5	4xDN100	4xDN100
VDD6Q1007A	658,0	528,7	264306	189386	114,4	92,0	36,2	24,6	50	43			B	B	14 x 1000	2118,7	346,5	4xDN100	4xDN100
VDD6Q1007B	791,0	607,6	240299	168471	137,6	105,7	44,7	28,1	50	43			B	B	14 x 1000	3178,0	519,9	4xDN100	4xDN100
VDD6Q1007C	839,8	629,1	217422	152481	146,0	109,4	50,3	30,2	50	43			C	B	14 x 1000	4237,4	693,1	4xDN100	4xDN100
VDD6Q1008A	759,0	609,6	302127	216505	132,0	106,0	53,1	36,0	51	44			C	B	16 x 1000	2423,0	396,4	4xDN100	4xDN100
VDD6Q1008B	900,4	691,8	274722	192610	156,6	120,3	35,2	22,2	51	44			B	B	16 x 1000	3634,5	594,6	4xDN100	4xDN100
VDD6Q1008C	959,8	719,0	248595	174339	166,9	125,0	48,5	29,1	51	44			D	D	16 x 1000	4846,0	792,8	4xDN100	4xDN100
VDD6R1002A	167,3	123,2	66534	42246	29,1	21,4	11,0	6,4	43	34	P=670W I=1.4A n=380 min-1	P=330W I=0.67A n=250 min-1	C	B	4 x 1000	597,5	97,6	2xDN80	2xDN80
VDD6R1002B	197,0	138,5	59890	37643	34,3	24,1	8,7	4,7	43	34			B	B	4 x 1000	895,5	146,6	2xDN80	2xDN80
VDD6R1002C	205,7	140,2	53830	33809	35,8	24,4	6,2	3,2	43	34			B	B	4 x 1000	1194,1	195,4	2xDN80	2xDN80
VDD6R1003A	260,2	191,3	100017	63532	45,3	33,3	35,2	20,4	45	36			C	B	6 x 1000	901,3	147,5	2xDN80	2xDN80
VDD6R1003B	305,2	213,7	90155	56673	53,1	37,2	27,6	14,6	45	36			B	B	6 x 1000	1352,1	221,1	2xDN80	2xDN80
VDD6R1003C	317,9	215,8	81107	50939	55,3	37,5	19,7	9,9	45	36			B	A	6 x 1000	1802,8	294,9	2xDN100	2xDN100
VDD6R1004A	349,9	257,3	133495	84817	60,9	44,7	47,1	27,5	46	37			C	B	8 x 1000	1205,7	197,1	2xDN100	2xDN100
VDD6R1004B	408,6	286,1	120418	75701	71,1	49,8	30,3	16,0	46	37			B	A	8 x 1000	1808,5	295,8	2xDN100	2xDN100
VDD6R1004C	430,1	291,5	108381	68068	74,8	50,7	44,1	22,2	46	37			B	A	8 x 1000	2411,4	394,4	2xDN100	2xDN100
VDD6R1005A	436,1	320,4	166975	106101	75,8	55,7	38,8	22,5	47	38			C	B	10 x 1000	1510,0	247,0	2xDN100	2xDN100
VDD6R1005B	517,0	361,6	150680	94728	89,9	62,9	56,9	30,0	47	38			B	A	10 x 1000	2265,0	370,5	2xDN100	2xDN100
VDD6R1005C	537,1	364,1	135655	85196	93,4	63,3	36,5	18,4	47	38			B	A	10 x 1000	3020,0	494,0	2xDN100	2xDN100
VDD6R1006A	524,0	385,0	200453	127385	91,1	67,0	39,8	23,1	48	39			C	B	12 x 1000	1814,3	296,8	2xDN100	2xDN100
VDD6R1006B	617,8	432,3	180941	113755	107,4	75,2	41,9	22,2	48	39			B	A	12 x 1000	2721,6	445,2	2xDN100	2xDN100
VDD6R1006C	642,3	435,6	162929	102325	111,7	75,8	26,9	13,6	48	39			B	A	12 x 1000	3628,73	593,5	4xDN100	4xDN100
VDD6R1007A	608,4	447,2	233931	148669	105,8	77,8	31,5	18,3	48	39			C	B	14 x 1000	2118,7	346,5	4xDN100	4xDN100
VDD6R1007B	719,9	503,9	211202	132782	125,2	87,6	37,8	20,0	48	39			B	A	14 x 1000	3178,0	519,9	4xDN100	4xDN100
VDD6R1007C	754,5	511,3	190202	119453	131,2	88,9	41,6	20,9	48	39			B	A	14 x 1000	4237,4	693,1	4xDN100	4xDN100
VDD6R1008A	701,6	515,9	267410	169953	122,0	89,7	46,2	27,0	49	40			C	B	16 x 1000	2423,0	396,4	4xDN100	4xDN100
VDD6R1008B	828,4	579,4	241463	151808	144,1	100,8	55,2	29,1	49	40			B	A	16 x 1000	3634,5	594,6	4xDN100	4xDN100
VDD6R1008C	866,8	587,0	217476	136582	150,8	102,1	60,6	30,5	49	40			B	A	16 x 1000	4846,0	792,8	4xDN100	4xDN100

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.

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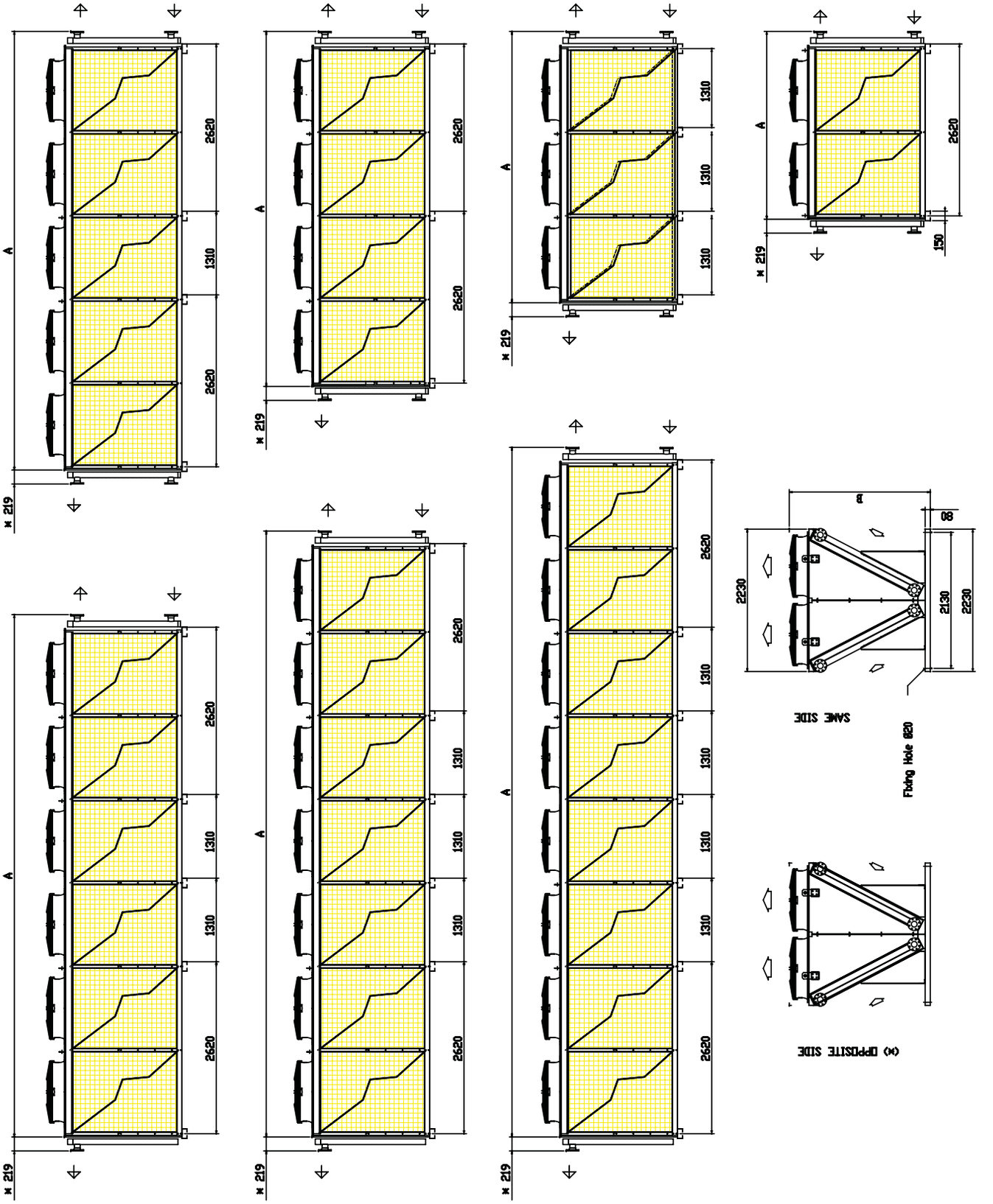
Alfa V- VDD/VDD6

Drawings

Model	Dimensions	Weight
	mm	Kg
	A	
VDD_802/902/1002A	2940	585
VDD_802/902/1002B	2940	675
VDD_802/902/1002C	2940	774
VDD_803/903/1003A	4250	765
VDD_803/903/1003B	4250	945
VDD_803/903/1003C	4250	1125
VDD_804/904/1004A	5560	1152
VDD_804/904/1004B	5560	1332
VDD_804/904/1004C	5560	1530
VDD_805/905/1005A	6870	1440
VDD_805/905/1005B	6870	1665
VDD_805/905/1005C	6870	1913
VDD_806/906/1006A	8190	1620
VDD_806/906/1006B	8190	1890
VDD_806/906/1006C	8190	2250
VDD_807/907/1007A	9490	2070
VDD_807/907/1007B	9490	2340
VDD_807/907/1007C	9490	2691
VDD_808/908/1008A	10800	2430
VDD_808/908/1008B	10800	2682
VDD_808/908/1008C	10800	3042
VDD6_802/902/1002A	2940	690
VDD6_802/902/1002B	2940	797
VDD6_802/902/1002C	2940	913
VDD6_803/903/1003A	4250	903
VDD6_803/903/1003B	4250	1115
VDD6_803/903/1003C	4250	1328
VDD6_804/904/1004A	5560	1359
VDD6_804/904/1004B	5560	1572
VDD6_804/904/1004C	5560	1805
VDD6_805/905/1005A	6870	1699
VDD6_805/905/1005B	6870	1965
VDD6_805/905/1005C	6870	2257
VDD6_806/906/1006A	8190	1912
VDD6_806/906/1006B	8190	2230
VDD6_806/906/1006C	8190	2655
VDD6_807/907/1007A	9490	2443
VDD6_807/907/1007B	9490	2761
VDD6_807/907/1007C	9490	3175
VDD6_808/908/1008A	10800	2867
VDD6_808/908/1008B	10800	3165
VDD6_808/908/1008C	10800	3590

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

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Alfa V- VDD/VDD6

Options

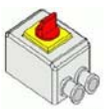
Motor fans



(a) Fan motor 400 V/3ph - 60Hz, IP54: S/L/Q/R for Ø 800/910
(b) Fan motor 460 V/3ph - 60Hz, IP54: S/L/Q/R for Ø 800/910

Model:
Ø 800 [a,b]
Ø 910[a,b]

Local safety switch wired



See Electrical Data Page.

Model:
All Models

Terminal Box

See Electrical Data Page.

Model:
All Models

Switchboard and cabling

Function
Switchboard for supply and control of fan motors.
A switchboard can supply up to 8 individual motors or 8 paired motors (i.e. max. of 16 motors).
Switchboard and cabling are supplied as standard for vertical installation of the unit.
If you have different needs, please specify these when placing your order.
See Electrical Data Page.

Model:
All Models

Switchboard with Fan Speed control

Switchboard and cabling, including an electronic fan motor speed controller that checks and regulates the speed rotation of the fan's motor, keeping the temperature for dry cooler within the range or preset values. Constant control of the fan speed is achieved by variation of the electrical supply by phase-cut, as determined by the probe signal. The fan speed controller comes pre-connected to the switchboard. If you have different needs, please specify these when placing your order.

Model:
Ø 630
Ø 800
Ø 910

Switchboard with Fan Step control

Switchboard and cabling, including an automatic on/off switch that checks and regulates the speed rotation of the fan's motor, keeping the temperature of the dry cooler within the range or preset values. Control of the fan speed is achieved by variation of the electrical supply by the ON/OFF device, as determined by the probe signal. The fan step controller comes pre-connected to the switchboard. If you have different needs, please specify these when placing your order.

Model:
All Models

Switchboard with Frequency Converter (Inverter)

See Electrical Data Page.

Model:
All Models

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Switchboard Options

R anti-condensate resistor 230Vac (operating temperature -25 ÷ +35°C)
C cooling fan 230Vac (operating temperature -10 ÷ +50°C)
F cooling fan + anti-condensate resistor

Model: All Models

Coil Treatment / Material

Thermoguard for industrial or sea coast application.
Aluminium fins, pre-coated.
Copper fins.
Application Use: More information on corrosion prevention can be found in the Miscellaneous section.

Model: All Models

Special fin spacing

The standard fin spacing is 2.1mm.
Alternative: 2.5mm and 3.2mm

Model: All Models

Spray water

Consisting of a pipe system with several fitted spraying nozzles that nebulise water in the air suction of the coil. Spray water comes mounted on delivery.

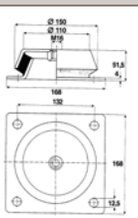
Model: All Models

Finned coil grid

Mesh: 40 mm x 40 mm.

Model: All Models

Vibration Dampers



Type	H mm	A mm	B mm	C mm	D mm	Weight Kg
Single Row	51.5	132	168	M16	12.5	2.15

Nuts and bolts are not included with these dampers.

Model: All Models

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Alfa V- VDD/VDD6

Electrical Data

Safety Switch

Function

Local safety switch and cabling for each electric fan motor.

General data

Power Supply:
- 400VAC, 50/60Hz
- Max fuse 16A

Number of poles: 3P

Cabinet Material: Polycarbonate enclosure

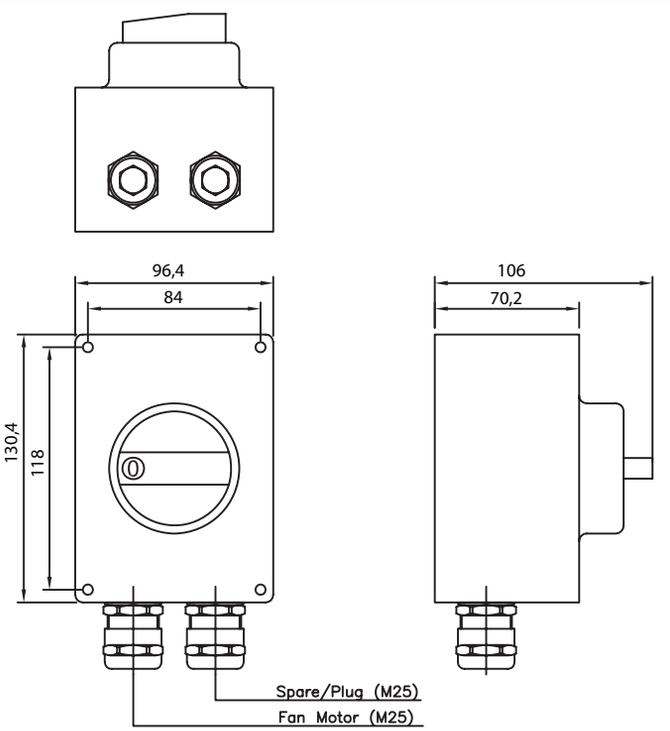
Cabinet Colour: Grey (Red Knob)

Protection Class: Min IP66

Ambient Temp.: min. -20°C, max. +40°C

Weight: Approx. 0.4Kg

Dimensions



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Safety Switch EMC

Function

Local safety switch and cabling for each electric fan motor.

General data

Power Supply:
- 400VAC, 50/60Hz
- Max fuse 16A

Number of poles: 3P

Cabinet Material: Polycarbonate enclosure with internal copper-painted

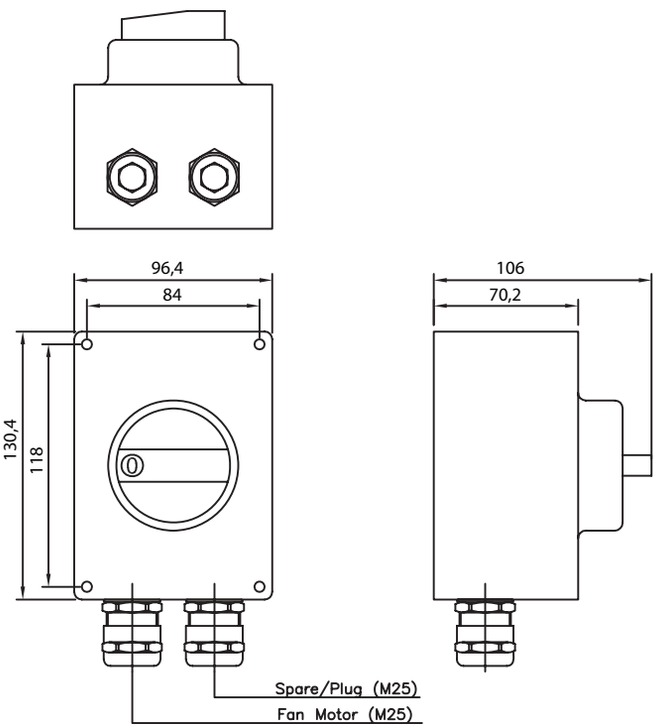
Cabinet Colour: Grey (Red Knob)

Protection Class: Min IP66

Ambient Temp.: min. -20°C, max. +40°C

Weight: Approx. 0.4Kg

Dimensions



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Terminal Box

Function

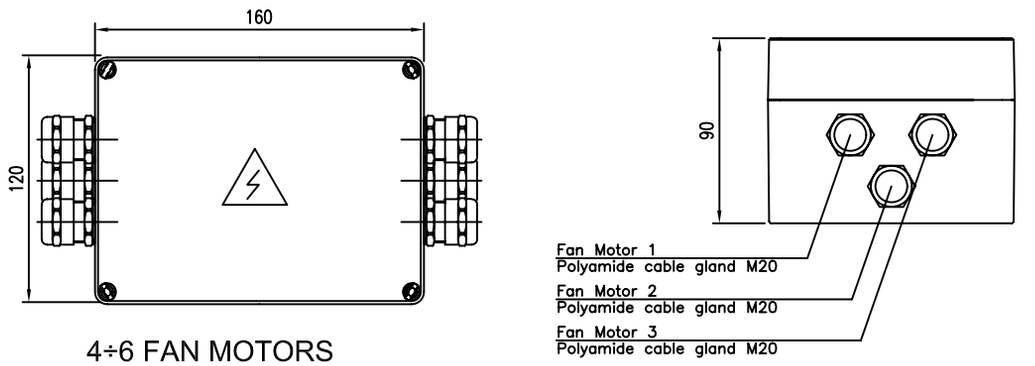
Connection box for electric fan motor

General data

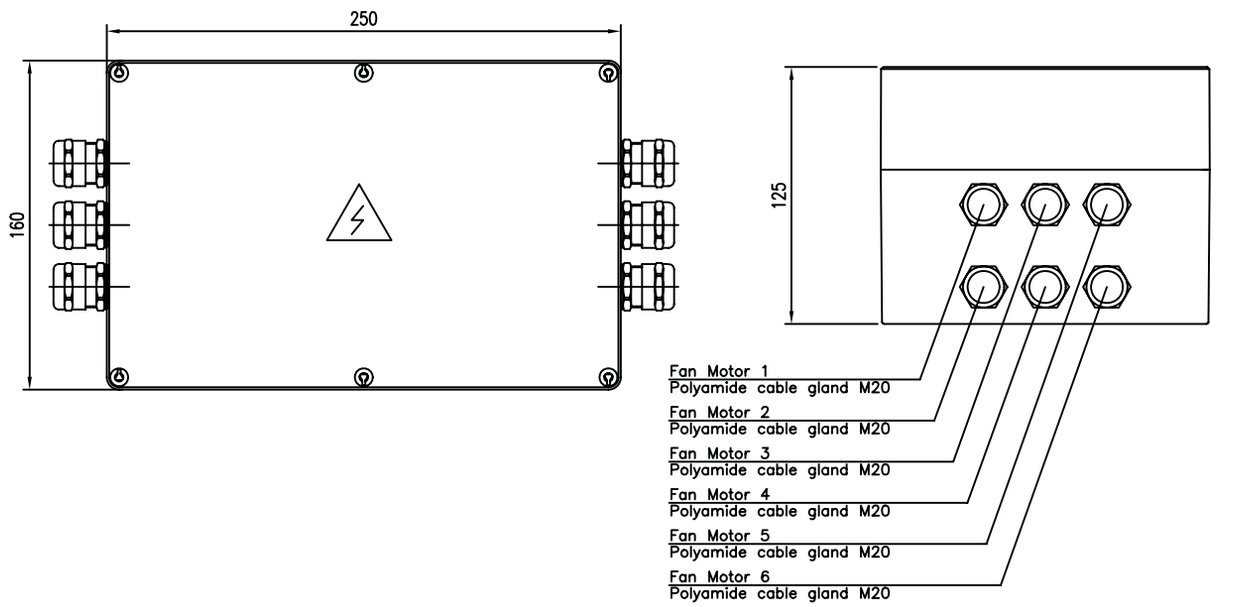
Material: Polycarbonate enclosure
Cover screws material: Stainless steel
IP Protection Class: IP67
Colour: Grey RAL 7035
Ambient Temp.: min. -40°C, max. +80°C
Impact Resistance (EN 50102): IK 08/07
Weight: Approx. 0.5Kg.

Dimensions

1÷3 FAN MOTORS



4÷6 FAN MOTORS



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Current Distribution

Function

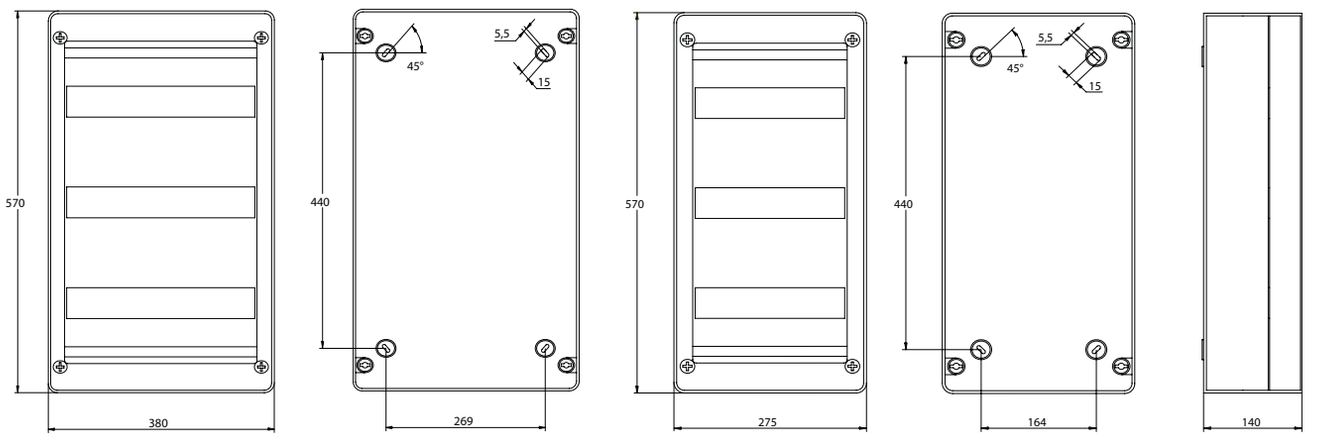
Current distributors (BI) are available as optional accessories. Numerous fans can be connected. In combination with Fcontrol frequency converters, we can deliver the current distribution with both main switch and bypass function. Features: The current distributor is equipped with plastic housing, IP54 and motor protection units STDT16E with status signal contacts ZB. It is possible to lock the motor protection units with a padlock and use them as repair switches. Fans are directly connected to the motor protection units. Line protection is guaranteed through the integrated short-circuit release. Terminals for supplying the controller output are also integrated. The current distributors are suitable for external mounting (e.g. direct mounting at refrigeration units). It's easy to see the switch position of the motor protection units through the coloured, transparent plastic door.

General data

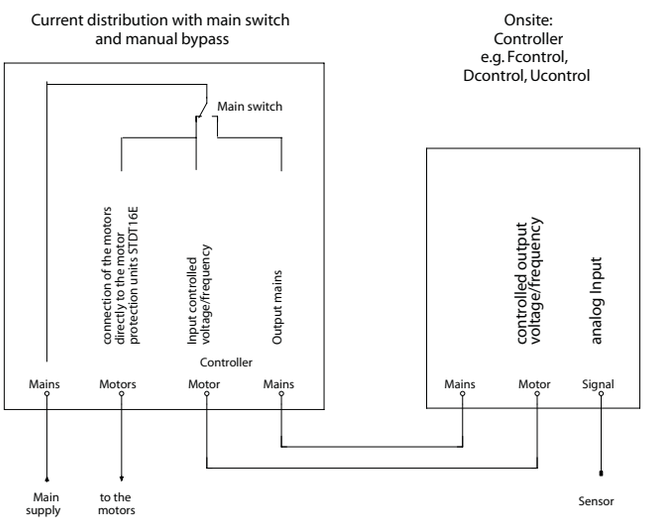
Current distributor with main switch and bypass function:

- The controller is supplied by the current distributor
- Main switch: 100% - 0 -1
- In position 100%, the connection to the controller output is switched off. This version is for Fcontrol frequency inverters .
- Rated current: Up to 80A

Dimensions



Electric wiring diagram



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Frequency Converter (Inverter)

Function

Frequency inverter (BI) - incl. sine filter - for 3~ motors. Universal controller for refrigeration and air conditioning line input 3~ 208-480V, housing IP54, internal display.

- Speed controller with manual adjustment of output voltage at the unit or via external signal, 2-step operation;
- Temperature control for liquid coolers;
- Pressure control refrigeration (input for refrigerant) for: condensers, dual-circuit condensers;

General data

Equipment/Function

- Integrated SINEFILTER between phase to phase and phase to earth.
- Absolute parallel operation of fans, with no risk of damage to the motor. **Screened motor cables are not required.**
- Integrated process controller (PID free programmable).
- LCD multifunction display with plain language text.
- 2x Analogue Input (0-10 V, 0-20 mA, 4-20 mA, temperature sensor type TF):
  - Analogue 1 for setting of sensor signal.
  - Analogue 2 programmable function for: external set-point, difference value to sensor 1, comparison value (dual-circuit condenser), averaging, and setpoint lowering according to outdoor temperature.
- 1x output 0-10V, programmable function: Constant voltage, proportional modulation, proportional input signal, group control, controller 2.
- 2x digital inputs, programmable function: enable (on / off), external fault, limit output, input 1/2, set-point 1/2, setting internal / external, automatic control / speed manual, reverse control function (“heating” / “cooling”), reset, setting max. speed.
- 2x relay outputs, programmable function: operating indication, fault indication, external fault from digital input, limit modulation, limit input signal, limit offset (deviation actual value setpoint), group control .
- Total motor protection using thermocontact / thermistor connection.
- Interface system with RS485 Interface (MODBUS) or LON® is another alternative option.

Technical data

- Line voltage 3~ 208 BND_480V (-15% / +10%), 50/60Hz.

Rated current*/A	4	8	13	18	22	32	40
Max. line fuse/A	10	10	16	20	25	35	50
Max. heat dissipation*/W	130	210	350	440	540	950	1.100
Weight/Kg	8.8	9.0	22.8	25.4	28.1	29.5	31.8

*at line voltage 400V / 50Hz (for FXDM40A rated current - only possible for fans with cos $\phi < 0.8$).

- Maximum output frequency 100Hz (for FXDM40, max. 60Hz).
- Clock frequency 16 kHz.
- Max. permissible ambient temperature 40°C (up to 55°C with derating).
- Voltage supply for sensors +24V ±20% ($I_{max.}$ 120 mA).
- Permissible rel. humidity 85% with no condensation .
- Interference emission EN 61000-6-3 1 (unshielded motor cable).
- Interference immunity EN 61000-6-2.

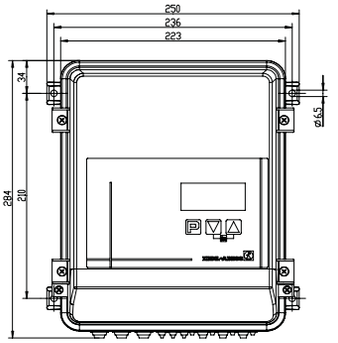
Settings

- Quick start-up with pre-programming modes.
- Set-point 1, set-point 2, manual mode.
- Min. and max. speed, speed limitation e.g. for night operation.
- Group control (via relay or 0-10V signal output).
- Limits: Modulation, input signal, offset (deviation set to actual value).
- Set protection, save user settings.
- Readout events memory (checking the fault log).
- Masking up to 3 settable speed ranges.
- Minimum rate of air on / off.
- Edge frequency, max. frequency / voltage, start voltage.
- U/f characteristics: quadratic or linear.
- Menu language: English, German, Italian, Swedish, etc.
- Inverting: Inputs analogue and digital, analogue out, relays.

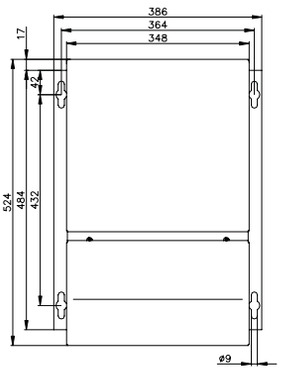
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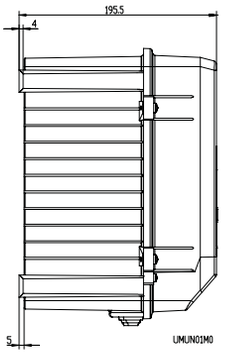
Dimensions

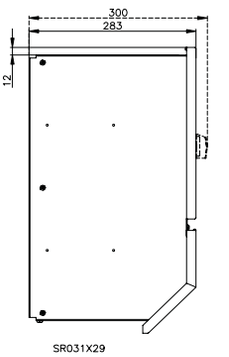
FXDM4/8



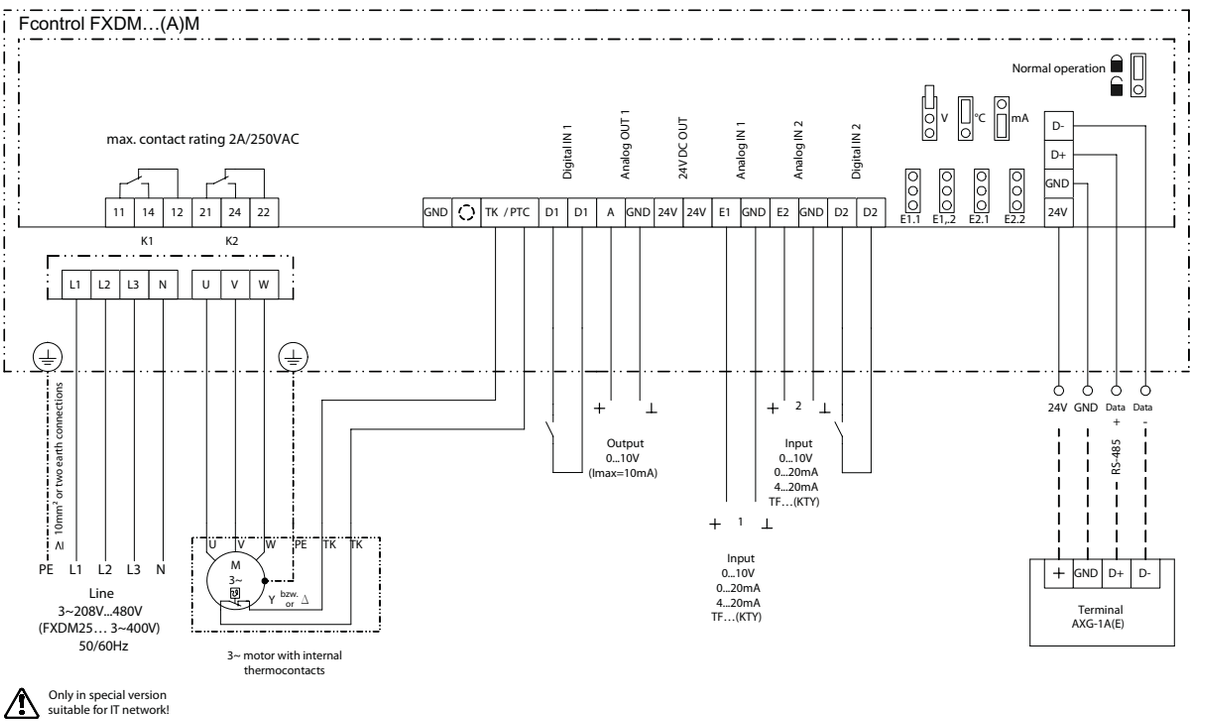
FXDM13..40A







Electric wiring diagram



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Alfa V- VDD/VDD6

Code description

Code No.

	1	2	3	4
VDD or VDD6	S	80	2	A

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

	Standard noise level	Low noise level	Quiet noise level	Residential noise level
	S*	L*	Q*	R*
Fan Ø 800/910/1000 mm	std	-7	-17	-20

2) Fan diameter Ø

80	800 mm
90	910 mm
100	1 000 mm

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

1 2 3 4 5 6 7 8	Ø 800/910/1000 mm

4) The number of rows in the coil (A, B, C)

General Alfa Select Air Legend

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

The PMA is subject to periodical updates, so please keep checking it. While every precaution has been taken, Alfa Laval assume no responsibility for errors or omission, or for damage resulting from the information contained herein.