ENGINEERING
TOMORROW

European Catalogue

Optyma™
Packaged condensing units

R452A, R134a, R513A, R448A, R449A, R407A, R407F, R404A/R507, R744, R454C, R455A, R1234yf - 50 Hz

www.danfoss.com | EcoDesign | Optyma™ by Danfoss

Danfoss Optyma™
packaged condensing units

Highly efficient and reliable plug and play condensing units designed with the contractor and end-user in mind, and providing unique benefits.

Benefits for the contractor

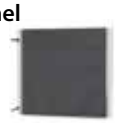
- Simple and fast selection and installation, reduced maintenance time
- Models compatible with multiple lower GWP refrigerants
- Reduced refrigerant costs thanks to microchannel condenser inside

Benefits for the end-user

- Higher food safety and longer products shelf life
- Units suitable for residential areas thanks to low sound level operation
- Reduced life cycle costs of refrigeration equipment thanks to highly efficient units

Optyma™ **Slim Pack (W05)**

Compact and cost effective.
With microchannel condenser



Optyma™ **Slim Pack (W09)**

Cost effective and efficient.
W05 base + fan speed controller and main switch

A2L Multi-refrigerants A1+A2L

Optyma™ **Plus (P00)**

Reliability & connectivity to the cloud.
With electronic controller

Optyma™ **with Liquid Injection (P02)**

P00 base + Liquid injection feature with electronic expansion valve and dedicated electronic controller.

A2L Multi-refrigerants A1+A2L

Optyma™ **Plus INVERTER (P01)**

Unmatched efficiency for high energy savings.
With variable speed drive

Optyma™ **iCO$_2$ (P04)**

Intelligent and sustainable.
With CO_2 refrigerant

MBP and LBP **applications**

- Cold rooms, display cabinets in convenience stores, mini-markets, restaurants, fisheries, butcheries, bakeries, florists, laboratories
- Wine cellars
- Milk cooling
- Industrial processes
- Dairy and general food storage

Designation

OP - MSXM034 ML W05 G

1 2 3 4 5 6 7 8

OP = Optyma™

1	Application: **M** = MBP ; **L** = LBP
2	Condensing unit family: **S** = Slim Pack / **P** = OP Plus and OP Plus INVERTER
3	Refrigerant: **A** = R744; **B** = R404A/R507, R449A, R452A; **G** = R134a, R513A; **H** = R404A/R507; **O** = R452A, R404A/R507, R448A, R449A; **P** = R448A/R449A, R407A/F, R404A/R507; **Q** = R452A, R404A/R507; **S** = R134a, R513A, R1234yf ; **T** = R404A/R507,R455A,R454C,R448A/R449A,R452A; **V** =R454C, R455A, R452A, R404A/R507; **X** = R404A/R507, R134a, R407A, R407F, R448A, R513A, R449A,R452A ; **Y** = R404A/R507, R449A;
4	**M** = Microchannel heat condenser
5	Displacement in cm^3: Example 034 = 34 cm^3
6	Compressor platform (such as VVL = variable speed scroll VLZ) DX/DP/DS/DY/SC and CS = Fixed Recip Compressor
7	Version: **W05/W09:** Optyma™ **Slim Pack** **P00**: Optyma™ **Plus** **P01**: Optyma™ **Plus INVERTER** **P02**: Optyma™ **Plus** with Liquid Injection **P04**: Optyma™ **iCO$_2$**
8	Electrical code: **G** = 230V/1-phase compressor & fan **E** = 400V/3-phase compressor & 230V/1-phase fan

Feature overview:

	Optyma™ Slim Pack		Optyma™ Plus		Optyma™ Plus INVERTER	Optyma™ iCO₂
	(W05)	(W09)	(P00)	(P02)	(P01)	(P04)
IP level	IP54		IP54		IP54	IP54
Compressor technology	Scroll/Reciprocating		Scroll/Reciprocating	Scroll	Variable speed scroll	Variable speed scroll
Control box (pre-wired E-panel)	yes		yes		yes	yes
Microchannel condenser	yes		yes		yes	yes
Fan speed controller	-	yes	yes		yes	yes
Main switch (circuit breaker)	-	yes	yes		yes	yes
Filter drier (flare connections)	yes		yes		yes	yes (brazed)
Sight glass	yes		yes		yes	yes
Crankcase heater	yes		yes		yes	yes
HP/LP adjustable pressostat	Auto/Manual reset mode		Electronic		Electronic	Electronic
Fail safe mini-pressostat	-		Mechanical		Mechanical	Mechanical
Access door(s)	-		yes		yes	yes
Acoustic insulation	-		yes		yes	yes
Condensing unit electronic controller	-		yes		yes	yes
Network connectivity	-		yes		yes	yes
Stack mounting	-		yes		-	yes
Oil separator	-		-		yes	yes
Discharge gas thermostat	yes*		yes		yes	yes
HP/LP Alarm	yes*		yes		yes	yes
Liquid injection kit	-		-	yes	-	-
Net weight in kg	B1 housing: from 50.4 to 53 B2 housing: from 61.5 to 77 B3 housing: from 76 to 79		H1 housing: from 49 to 53 H2 housing: from 80 to 94 H3 housing: from 101 to 107 H4 housing: 169	H3 housing: from 135 and 136 H4 housing: 161 and 166	124 & 125	116
Dimensions in mm (height x width x depth)	B1 housing: 530 x 910 x 364 B2 housing: 690 x 1079 X464 B3 housing: 825 x 1105 x 464		H1 housing: 605 X 941 X 406 H2 housing: 813 X 1090 X 480 H3 housing: 965 X 1441 X 531 H4 housing: 966 X 1835 X 650	H3 housing: 965 X 1441 X 531 H4 housing: 966 X 1835 X 650	965 x 1406 x 481	835 x 1340 x 500

* Not premounted, provision available

Overview by range and refrigerant:

Min / Max Cooling capacity range [kW]	Optyma™ Slim Pack	Optyma™ Plus	Optyma™ with Liquid injection	Optyma™ Plus INVERTER	Optyma™ iCO₂
Medium temperature (MBP)					
R744	-	-	-	-	4.6
R448A/R449A	0.8 - 11.0	0.8 - 16.2	-	5.9 - 9.1	-
R134a	0.6 - 6.6	1.3 - 10.2	-	-	-
R513A	0.6 - 7.0	1.3 - 10.3	-	-	-
R452A	0.8 - 10.8	0.8 - 16.1	-	-	-
R404A/507	0.8 - 10.3	0.8 - 16.1	-	6.0 - 9.1	-
R455A	0.8 - 2.9	0.8 - 2.9	-	-	-
R454C	0.7 - 2.4	0.7 - 2.4	-	-	-
R1234yf	0.6 - 1.4	1.2 - 1.4	-	-	-
Low temperature (LBP)					
R448A/R449A	-	-	2.5 - 6.6	-	-
R452A	0.3 - 3.4	0.4 - 1.7	2.4 - 6.3	-	-
R404A/507	0.4 - 3.6	0.4 - 1.7	2.6 - 5.8	-	-
R455A	0.3 - 1.4	0.3 - 1.4	-	-	-
R454C	0.3 - 1.2	0.3 - 1.2	-	-	-

Rating conditions EN 13215 (Mid point):
MBP: Ambient temp = 32°C, Evap temp = -10°C, Superheat = 10K, Subcooling = 0K / **LBP:** Ambient temp = 32°C, Evap temp = -35°C, Superheat = 10K, Subcooling = 0K

Optyma™ Slim Pack
Light on **refrigerant, heavy on efficiency**

Get it all with Optyma™ **Slim Pack**. It combines quiet operation and more value for money with an energy-efficient and compact solution.

Quick and safe installation and service
Same serviceable units, upgraded for A2L refrigerants. Ignition proof tested in TÜV laboratory.

High SEPR*
All models in the range are highly efficient and well above EcoDesign 2018 thresholds, contributing to a reduction in energy costs.
**SEPR: Seasonal Energy Performance Ratio.*

A2L
Multi-refrigerants units for complexity reduction, available with new code numbers. Go A2L for a sustainable compliant choice.

Suitable for residential areas
It operates up to 7 dB(A) lower than other packaged units of the same capacity and the fan-speed controller further reduces the sound level by up to 4 dB(A).

Optimized footprint for floor and wall mounting
Thanks to its slim design and low weight, it is easy to transport and handle during installation – particularly for wall mounting.

Standard range **(W05 and W09)**

Multi refrigerant range **(W05)**

A2L

Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSTM008DY	114X7226	W05	A1 + A2L	G	27	-	0.77	0.96	1.17	1.38	1.62	1.86	2.24	-	10	32
					32	-	0.68	0.86	1.05	1.25	1.46	1.69				
					38	-	0.58	0.73	0.90	1.08	1.28	1.49				
					43	-	-	0.63	0.78	0.95	1.13	1.33				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27	-	0.87	1.08	1.29	1.52	1.75	2.00	2.04	-	10	32
					32	-	0.78	0.96	1.16	1.37	1.59	1.82				
					38	-	0.67	0.83	1.01	1.19	1.39	1.60				
					43	-	-	0.72	0.88	1.05	1.23	1.42				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27	-	1.12	1.37	1.64	1.92	2.21	2.50	1.85	-	10	32
					32	-	0.99	1.22	1.47	1.72	1.99	2.27				
					38	-	0.85	1.05	1.26	1.49	1.74	1.99				
					43	-	-	0.90	1.10	1.30	1.53	1.76				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27	-	1.18	1.43	1.70	1.98	2.27	2.58	1.78	-	10	33
					32	-	1.07	1.30	1.55	1.81	2.09	2.39				
					38	-	0.94	1.15	1.37	1.62	1.88	2.15				
					43	-	-	1.02	1.23	1.45	1.70	1.96				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27	-	1.24	1.49	1.75	2.03	2.32	2.63	1.65	-	10	39
					32	-	1.13	1.36	1.60	1.86	2.14	2.43				
					38	-	1.00	1.21	1.43	1.67	1.92	2.20				
					43	-	-	1.08	1.28	1.50	1.74	2.00				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27	-	1.80	2.20	2.64	3.14	3.68	4.25	1.9	-	10	39
					32	-	1.63	1.99	2.40	2.86	3.35	3.88				
					38	-	1.42	1.75	2.12	2.52	2.96	3.44				
					43	-	-	1.55	1.88	2.24	2.63	3.06				
OP-MSTM026DS	114X7234	W05	A1 + A2L	G	27	-	2.21	2.70	3.22	3.77	4.33	4.91	1.83	-	10	39
					32	-	1.95	2.40	2.87	3.37	3.89	4.44				
					38	-	1.64	2.03	2.45	2.90	3.37	3.88				
					43	-	-	1.73	2.11	2.51	2.94	3.41				
OP-MSTM026DS	114X7235	W05	A1 + A2L	E	27	-	2.23	2.73	3.26	3.80	4.38	4.96	1.79	-	10	39
					32	-	1.97	2.42	2.90	3.40	3.93	4.49				
					38	-	1.65	2.05	2.48	2.93	3.41	3.92				
					43	-	-	1.75	2.13	2.54	2.97	3.44				
OP-MSTM034DS	114X7237	W05	A1 + A2L	G	27	-	2.24	2.91	3.66	4.50	5.43	6.43	1.79	-	10	39
					32	-	2.01	2.63	3.34	4.12	5.00	5.95				
					38	-	1.72	2.29	2.94	3.67	4.48	5.37				
					43	-	-	2.00	2.61	3.28	4.05	4.88				
OP-MSTM034DS	114X7236	W05	A1 + A2L	E	27	-	2.27	2.94	3.70	4.54	5.48	6.49	1.75	-	10	39
					32	-	2.03	2.66	3.37	4.17	5.05	6.01				
					38	-	1.74	2.31	2.97	3.71	4.53	5.43				
					43	-	-	2.02	2.63	3.32	4.09	4.93				
OP-MSXM034ML	114X7062 114X7196	W05 W09	A1	E	27	2.59	3.21	3.90	4.70	5.58	6.58	-	2.29	-	10	38
					32	2.40	2.99	3.64	4.39	5.23	6.17	-				
					38	2.17	2.70	3.31	4.01	4.79	5.67	-				
					43	-	-	3.02	3.67	4.40	5.23	-				
OP-MSXM034ML	114X7061 114X7195	W05 W09	A1	G	27	2.58	3.20	3.90	4.70	5.59	6.59	-	2.35	-	25	38
					32	2.41	2.99	3.65	4.41	5.24	6.19	-				
					38	2.19	2.73	3.34	4.04	4.82	5.70	-				
					43	-	-	3.07	3.72	4.45	5.27	-				

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MBP

(1) G - Compressor 230V/1Ph/50Hz, fan 230V/1Ph/50Hz
E - Compressor 400V/3Ph/50Hz, fan 230V/1Ph/50Hz

(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

(3) Rated conditions (EN13215), Evaporating temperature (Mid) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

For regular updates and detailed capacities, please refer to **Coolselector®2** software

A2L

Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSYM009MY	114X7108 114X7133	W05 W09	A1	G	27		0.87	1.08	1.29	1.52	1.75	2.00	2.00	-	10	32
					32		0.78	0.96	1.16	1.37	1.59	1.82				
					38		0.67	0.83	1.01	1.19	1.39	1.60				
					43		-	0.72	0.88	1.05	1.23	1.42				
OP-MSYM012MP	114X7109 114X7134	W05 W09	A1	G	27		1.12	1.37	1.64	1.92	2.21	2.50	1.99	-	10	34
					32		0.99	1.22	1.47	1.72	1.99	2.27				
					38		0.85	1.05	1.26	1.49	1.74	1.99				
					43		-	0.90	1.10	1.30	1.53	1.76				
OP-MSYM014MP	114X7110 114X7135	W05 W09	A1	G	27		1.18	1.43	1.70	1.98	2.27	2.58	1.68	-	10	29
					32		1.07	1.30	1.55	1.81	2.09	2.39				
					38		0.94	1.15	1.37	1.62	1.88	2.15				
					43		-	1.02	1.23	1.45	1.70	1.96				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27		0.87	1.08	1.29	1.52	1.75	2.00	2.04	-	10	32
					32		0.78	0.96	1.16	1.37	1.59	1.82				
					38		0.67	0.83	1.01	1.19	1.39	1.60				
					43		-	0.72	0.88	1.05	1.23	1.42				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27		1.12	1.37	1.64	1.92	2.21	2.50	1.85	-	10	32
					32		0.99	1.22	1.47	1.72	1.99	2.27				
					38		0.85	1.05	1.26	1.49	1.74	1.99				
					43		-	0.90	1.10	1.30	1.53	1.76				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27		1.18	1.43	1.70	1.98	2.27	2.58	1.78	-	10	33
					32		1.07	1.30	1.55	1.81	2.09	2.39				
					38		0.94	1.15	1.37	1.62	1.88	2.15				
					43		-	1.02	1.23	1.45	1.70	1.96				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27		1.24	1.49	1.75	2.03	2.32	2.63	1.65	-	10	39
					32		1.13	1.36	1.60	1.86	2.14	2.43				
					38		1.00	1.21	1.43	1.67	1.92	2.20				
					43		-	1.08	1.28	1.50	1.74	2.00				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27		1.80	2.20	2.64	3.14	3.68	4.25	1.90	-	10	39
					32		1.63	1.99	2.40	2.86	3.35	3.88				
					38		1.42	1.75	2.12	2.52	2.96	3.44				
					43		-	1.55	1.88	2.24	2.63	3.06				
OP-MSTM026DS	114X7234	W05	A1 + A2L	G	27		2.21	2.70	3.22	3.77	4.33	4.91	1.83	-	10	39
					32		1.95	2.40	2.87	3.37	3.89	4.44				
					38		1.64	2.03	2.45	2.90	3.37	3.88				
					43		-	1.73	2.11	2.51	2.94	3.41				
OP-MSTM026DS	114X7235	W05	A1 + A2L	E	27		2.23	2.73	3.26	3.80	4.38	4.96	1.79	-	10	39
					32		1.97	2.42	2.90	3.40	3.93	4.49				
					38		1.65	2.05	2.48	2.93	3.41	3.92				
					43		-	1.75	2.13	2.54	2.97	3.44				
OP-MSTM034DS	114X7237	W05	A1 + A2L	G	27		2.24	2.91	3.66	4.50	5.43	6.43	1.79	-	10	39
					32		2.01	2.63	3.34	4.12	5.00	5.95				
					38		1.72	2.29	2.94	3.67	4.48	5.37				
					43		-	2.00	2.61	3.28	4.05	4.88				
OP-MSTM034DS	114X7236	W05	A1 + A2L	E	27		2.27	2.94	3.70	4.54	5.48	6.49	1.75	-	10	39
					32		2.03	2.66	3.37	4.17	5.05	6.01				
					38		1.74	2.31	2.97	3.71	4.53	5.43				
					43		-	2.02	2.63	3.32	4.09	4.93				

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MBP

(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz
E - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz

(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

(3) Rated conditions (EN13215), Evaporating temperature (Mid point) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

For regular updates and detailed capacities, please refer to **Coolselector®2** software

A2L

Catalogue — Optyma™ Slim Pack - Performance data R452A MBP

Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSTM008DY	114X7226	W05	A1 + A2L	G	27	0.57	0.73	0.91	1.09	1.29	1.50	1.72	2.25	-	10	32
					32	0.51	0.65	0.81	0.98	1.17	1.36	1.56				
					38	0.44	0.56	0.70	0.85	1.02	1.19	1.38				
					43	0.38	0.49	0.61	0.74	0.89	1.05	1.23				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27	0.66	0.85	1.05	1.26	1.48	1.72	1.96	2.21	-	10	32
					32	0.59	0.76	0.94	1.13	1.34	1.56	1.78				
					38	0.51	0.65	0.81	0.98	1.17	1.36	1.57				
					43	0.44	0.57	0.70	0.86	1.02	1.20	1.40				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27	0.90	1.14	1.39	1.65	1.92	2.20	2.48	1.97	-	10	32
					32	0.80	1.02	1.24	1.48	1.73	1.98	2.25				
					38	0.68	0.87	1.07	1.28	1.50	1.73	1.98				
					43	0.59	0.75	0.93	1.11	1.31	1.52	1.75				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27	-	1.16	1.42	1.69	1.99	2.30	2.64	1.87	-	10	33
					32	-	1.05	1.28	1.54	1.82	2.12	2.44				
					38	-	0.92	1.13	1.36	1.62	1.90	2.20				
					43	-	0.81	1.00	1.22	1.45	1.71	2.00				
OP-MSOM018AJ	114X7111 114X7136	W05 W09	A1	G	27	1.01	1.29	1.61	1.98	2.40	2.87	-	1.69	-	10	33
					32	0.92	1.17	1.47	1.81	2.19	2.63	-				
					38	0.80	1.03	1.30	1.61	1.95	2.35	-				
					43	0.71	0.92	1.15	1.43	-	-	-				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27	1.00	1.26	1.54	1.83	2.14	2.46	2.79	1.71	-	10	39
					32	0.89	1.12	1.37	1.64	1.93	2.22	2.53				
					38	0.75	0.96	1.18	1.42	1.67	1.94	2.23				
					43	0.65	0.82	1.02	1.23	1.46	1.71	1.97				
OP-MSOM024AJ	114X7097 114X7194	W05 W09	A1	G	27	1.27	1.65	2.07	2.57	3.12	3.74	-	1.87	-	16	33
					32	1.14	1.49	1.88	2.34	2.85	3.42	-				
					38	0.98	1.29	1.65	2.06	2.52	3.04	-				
					43	0.85	1.13	1.45	1.83	-	-	-				
OP-MSOM026AJ	114X7093 114X7192	W05 W09	A1	E	27	1.41	1.82	2.27	2.79	3.36	4.01	-	1.74	-	10	36
					32	1.26	1.64	2.06	2.54	3.07	3.67	-				
					38	1.08	1.43	1.81	2.24	2.72	3.27	-				
					43	0.93	1.24	1.59	1.99	-	-	-				
OP-MSOM026AJ	114X7083 114X7190	W05 W09	A1	G	27	1.44	1.83	2.27	2.78	3.34	3.98	-	1.84	-	16	36
					32	1.30	1.66	2.07	2.54	3.06	3.65	-				
					38	1.13	1.46	1.82	2.24	2.71	3.25	-				
					43	0.99	1.29	1.62	2.00	-	-	-				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27	1.46	1.82	2.24	2.70	3.22	3.79	4.41	1.98	-	10	39
					32	1.30	1.64	2.02	2.45	2.93	3.45	4.03				
					38	1.12	1.42	1.77	2.15	2.58	3.05	3.56				
					43	0.97	1.25	1.56	1.90	2.29	2.71	3.17				
OP-MSTM026DS	114X7234	W05	A1 + A2L	G	27	1.67	2.14	2.64	3.17	3.72	4.31	4.91	1.89	-	10	39
					32	1.46	1.88	2.33	2.81	3.32	3.87	4.44				
					38	1.21	1.57	1.97	2.39	2.85	3.35	3.87				
					43	1.01	1.32	1.67	2.05	2.46	2.91	3.39				
OP-MSTM026DS	114X7235	W05	A1 + A2L	E	27	1.69	2.16	2.67	3.20	3.76	4.35	4.96	1.85	-	10	39
					32	1.48	1.90	2.36	2.84	3.36	3.91	4.48				
					38	1.23	1.59	1.99	2.42	2.88	3.38	3.91				
					43	1.02	1.34	1.68	2.07	2.48	2.94	3.43				

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MBP

(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz
E - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz
(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K
(3) Rated conditions (EN13215), Evaporating temperature (Mid point) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

For regular updates and detailed capacities, please refer to **Coolselector®2** software

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Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSTM008DY	114X7226	W05	A1 + A2L	G	27	0.59	0.75	0.92	1.12	1.32	1.54	1.77	2.06	-	10	32
					32	0.53	0.68	0.84	1.01	1.21	1.41	1.64				
					38	0.46	0.59	0.73	0.89	1.07	1.26	1.47				
					43	0.40	0.52	0.65	0.79	0.96	1.14	1.33				
OP-MSYM009MY	114X7108 114X7133	W05 W09	A1	G	27	-	0.82	1.01	1.22	1.45	1.69	-	2.00	-	10	32
					32	-	0.74	0.92	1.11	1.32	1.55	-				
					38	-	0.65	0.80	0.98	1.17	1.39	-				
					43	-	0.57	0.71	0.87	1.05	1.25	-				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27	0.66	0.83	1.01	1.22	1.43	1.67	1.91	2.01	-	10	32
					32	0.59	0.75	0.92	1.11	1.31	1.53	1.76				
					38	0.52	0.66	0.81	0.98	1.16	1.37	1.58				
					43	0.46	0.58	0.72	0.87	1.04	1.23	1.44				
OP-MSYM012MP	114X7109 114X7134	W05 W09	A1	G	27	-	1.12	1.37	1.64	1.92	2.22	-	2.02	-	10	34
					32	-	1.01	1.24	1.49	1.76	2.04	-				
					38	-	0.89	1.09	1.32	1.56	1.82	-				
					43	-	0.78	0.97	1.17	1.40	1.64	-				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27	0.89	1.11	1.35	1.60	1.87	2.15	2.44	1.83	-	10	32
					32	0.80	1.00	1.22	1.46	1.71	1.97	2.25				
					38	0.70	0.88	1.07	1.29	1.51	1.76	2.02				
					43	0.61	0.77	0.95	1.14	1.35	1.58	1.83				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27	0.91	1.15	1.40	1.68	1.97	2.29	2.63	1.73	-	10	33
					32	0.84	1.05	1.28	1.54	1.82	2.12	2.44				
					38	0.74	0.93	1.14	1.37	1.63	1.91	2.22				
					43	0.66	0.83	1.02	1.24	1.48	1.74	2.03				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27	0.96	1.21	1.47	1.76	2.07	2.40	2.75	1.64	-	10	39
					32	0.88	1.10	1.34	1.61	1.90	2.22	2.55				
					38	0.78	0.98	1.19	1.44	1.71	2.00	2.32				
					43	0.70	0.87	1.07	1.29	1.54	1.82	2.12				
OP-MSYM014MP	114X7110 114X7135	W05 W09	A1	G	27	-	1.14	1.40	1.69	2.01	2.34	-	1.69	-	10	29
					32	-	1.04	1.28	1.55	1.85	2.17	-				
					38	-	0.92	1.14	1.39	1.66	1.96	-				
					43	-	0.82	1.02	1.25	1.50	1.78	-				
OP-MSBM018AJ	114X7111 114X7136	W05 W09	A1	G	27	1.19	1.49	1.83	2.22	2.67	3.16	-	1.94	-	10	33
					32	1.08	1.36	1.67	2.03	2.44	2.90	-				
					38	-	-	1.49	1.81	2.17	2.57	-				
					43	-	-	1.33	1.62	1.94	2.30	-				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27	1.44	1.81	2.23	2.71	3.24	3.83	4.47	1.87	-	10	39
					32	1.29	1.63	2.02	2.46	2.95	3.49	4.08				
					38	1.10	1.41	1.76	2.16	2.60	3.09	3.62				
					43	0.95	1.24	1.55	1.91	2.31	2.75	3.23				
OP-MSBM024AJ	114X7097 114X7194	W05 W09	A1	G	27	-	1.84	2.30	2.84	3.44	-	-	2.08	-	16	33
					32	-	1.654	2.08	2.57	3.13	-	-				
					38	-	1.432	1.82	2.26	2.75	-	-				
					43	-	1.248	1.60	2	2.45	-	-				
OP-MSBM026AJ	114X7093 114X7192	W05 W09	A1	E	27	1.61	2.04	2.54	3.10	3.72	4.41	-	1.96	-	10	36
					32	1.43	1.84	2.30	2.82	3.40	4.04	-				
					38	1.21	1.59	2.01	2.48	3.00	3.58	-				
					43	-	1.38	1.77	2.20	2.67	3.20	-				

This table continues on the next page

MBP

(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz
E - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz

(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

(3) Rated conditions (EN13215), Evaporating temperature (Mid point) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

For regular updates and detailed capacities, please refer to **Coolselector®2** software

A2L

Catalogue — Optyma™ Slim Pack - Performance data R455A MBP

Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSTM008DY	114X7226	W05	A1 + A2L	G	27		0.79	0.97	1.17	1.38	1.60	1.83	2.2	-	10	32
					32		0.71	0.87	1.05	1.25	1.46	1.68				
					38		0.61	0.76	0.92	1.10	1.29	1.49				
					43		0.53	0.66	0.81	0.97	1.15	1.34				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27		0.94	1.15	1.38	1.62	1.87	2.13	2.11	-	10	32
					32		0.84	1.03	1.24	1.46	1.70	1.95				
					38		0.72	0.89	1.08	1.29	1.50	1.74				
					43		0.63	0.78	0.95	1.14	1.34	1.56				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27		1.16	1.40	1.66	1.92	2.20	2.49	1.9	-	10	32
					32		1.04	1.26	1.50	1.75	2.01	2.28				
					38		0.91	1.10	1.31	1.54	1.78	2.03				
					43		0.79	0.97	1.16	1.36	1.59	1.82				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27		1.22	1.47	1.74	2.02	2.32	2.64	1.82	-	10	33
					32		1.10	1.33	1.58	1.85	2.13	2.43				
					38		0.96	1.17	1.39	1.64	1.90	2.19				
					43		0.84	1.03	1.24	1.47	1.71	1.98				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27		1.37	1.65	1.95	2.26	2.59	2.93	1.71	-	10	39
					32		1.23	1.49	1.77	2.06	2.37	2.70				
					38		1.07	1.30	1.55	1.82	2.10	2.41				
					43		0.93	1.14	1.37	1.62	1.89	2.17				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27		1.85	2.25	2.70	3.19	3.72	4.30	2.02	-	10	39
					32		1.67	2.04	2.45	2.89	3.38	3.91				
					38		1.45	1.78	2.14	2.54	2.98	3.45				
					43		1.27	1.57	1.89	2.25	2.64	3.07				
OP-MSTM026DS	114X7234	W05	A1 + A2L	G	27		2.25	2.71	3.23	3.78	4.39	5.03	1.91	-	10	39
					32		2.02	2.45	2.92	3.43	3.98	4.57				
					38		1.76	2.14	2.56	3.01	3.50	4.02				
					43		1.54	1.89	2.26	2.66	3.10	3.57				
OP-MSTM026DS	114X7235	W05	A1 + A2L	E	27		2.27	2.74	3.26	3.82	4.43	5.08	1.87	-	10	39
					32		2.04	2.48	2.95	3.46	4.02	4.62				
					38		1.78	2.16	2.58	3.04	3.54	4.06				
					43		1.56	1.90	2.28	2.69	3.13	3.61				
OP-MSTM034DS	114X7237	W05	A1 + A2L	G	27		2.59	3.22	3.86	4.52	5.20	5.89	1.78	-	10	39
					32		2.33	2.90	3.49	4.09	4.73	5.38				
					38		2.02	2.52	3.04	3.59	4.17	4.76				
					43		1.77	2.21	2.68	3.17	3.70	4.25				
OP-MSTM034DS	114X7236	W05	A1 + A2L	E	27		2.61	3.25	3.90	4.56	5.25	5.95	1.74	-	10	39
					32		2.35	2.93	3.52	4.13	4.78	5.43				
					38		2.04	2.54	3.07	3.62	4.21	4.81				
					43		1.78	2.23	2.71	3.20	3.74	4.29				

MBP

(1) G - Compressor 230V/1Ph/50Hz, fan 230V/1Ph/50Hz
E - Compressor 400V/3Ph/50Hz, fan 230V/1Ph/50Hz

(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

(3) Rated conditions (EN13215), Evaporating temperature (Mid Point) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

For regular updates and detailed capacities, please refer to **Coolselector®2** software

A2L

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Model	Code	Version	Refrigerant class	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2) Evaporating Temperature (Mid point) [°C] -20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	EcoDesign (3) COP	SEPR	Min Fuse rating gL/gG (A)	Sound pressure level @ 10m dB(A)
OP-MSTM008DY	114X7226	W05	A1 + A2L	G	27		0.70	0.87	1.06	1.26	1.47	1.69	2.06	-	10	32
					32		0.63	0.79	0.96	1.15	1.35	1.55				
					38		0.55	0.69	0.84	1.01	1.20	1.38				
					43		-	0.61	0.75	0.90	1.08	1.24				
OP-MSTM009DY	114X7229	W05	A1 + A2L	G	27		0.77	0.95	1.15	1.36	1.58	1.81	1.98	-	10	32
					32		0.70	0.86	1.04	1.24	1.45	1.66				
					38		0.61	0.76	0.92	1.10	1.29	1.48				
					43		-	0.67	0.82	0.98	1.16	1.33				
OP-MSTM012DP	114X7230	W05	A1 + A2L	G	27		1.05	1.28	1.52	1.77	2.04	2.31	1.79	-	10	32
					32		0.95	1.16	1.38	1.62	1.87	2.11				
					38		0.83	1.02	1.22	1.43	1.66	1.88				
					43		-	0.90	1.08	1.28	1.49	1.69				
OP-MSTM014DP	114X7231	W05	A1 + A2L	G	27		1.09	1.32	1.58	1.85	2.13	2.42	1.69	-	10	33
					32		0.98	1.20	1.44	1.69	1.97	2.23				
					38		0.86	1.06	1.28	1.51	1.77	2.00				
					43		-	0.94	1.14	1.36	1.60	1.81				
OP-MSTM018DX	114X7232	W05	A1 + A2L	G	27		1.19	1.47	1.76	2.07	2.40	2.74	1.64	-	10	39
					32		1.06	1.31	1.58	1.87	2.18	2.50				
					38		0.91	1.13	1.37	1.63	1.91	2.21				
					43		0.78	0.98	1.19	1.43	1.68	1.97				
OP-MSTM022DS	114X7233	W05	A1 + A2L	G	27		1.60	2.04	2.55	3.13	3.78	3.91	1.93	-	10	39
					32		1.45	1.86	2.34	2.88	3.48	3.57				
					38		1.27	1.65	2.08	2.57	3.12	3.15				
					43		-	1.47	1.86	2.31	2.82	2.81				
OP-MSTM026DS	114X7234	W05	A1 + A2L	G	27		2.02	2.48	2.98	3.50	4.05	4.16	2.13	-	10	39
					32		1.80	2.23	2.69	3.18	3.70	3.79				
					38		1.55	1.93	2.34	2.79	3.27	3.34				
					43		-	1.68	2.05	2.47	2.92	2.97				
OP-MSTM026DS	114X7235	W05	A1 + A2L	E	27		2.03	2.50	2.99	3.52	4.07	4.62	2.18	-	10	39
					32		1.81	2.24	2.70	3.19	3.72	4.21				
					38		1.55	1.94	2.36	2.81	3.29	3.71				
					43		-	1.69	2.07	2.48	2.93	3.30				
OP-MSTM034DS	114X7237	W05	A1 + A2L	G	27		2.16	2.72	3.29	3.88	4.48	4.55	1.66	-	10	39
					32		1.96	2.46	2.99	3.53	4.09	4.15				
					38		1.72	2.16	2.63	3.11	3.62	3.68				
					43		-	1.91	2.32	2.77	3.23	3.28				
OP-MSTM034DS	114X7236	W05	A1 + A2L	E	27		2.17	2.73	3.31	3.90	4.51	5.06	1.70	-	10	39
					32		1.97	2.48	3.00	3.55	4.11	4.62				
					38		1.73	2.17	2.64	3.13	3.64	4.08				
					43		-	1.92	2.34	2.78	3.25	3.64				

MBP

(1) G - Compressor 230V/1Ph/50Hz, fan 230V/1Ph/50Hz
E - Compressor 400V/3Ph/50Hz, fan 230V/1Ph/50Hz

(2) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

(3) Rated conditions (EN13215), Evaporating temperature (Mid Point) -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

Application	Code	Model	Compressor Model	Electrical Code (1)	Refrigerant (2)	Condenser Coil			Fan		Receiver	Dimensions				Connection		Weight	
						Type	Airflow	Internal Volume	Number	Blade ø	Volume	Housing	Height	Width	Length	Suction valve	Liquid valve	Gross	Net
	W05						(m^3/h)	(dm^3)		(mm)	(L)		mm	mm	mm	inch	inch	Kg	Kg
LBP	114X7263	OP-LSVM014DPW05G	DPT14LA	G	V	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
LBP	114X7242	OP-LSVM016DPW05G	DPT16LA	G	V	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
LBP	114X7227	OP-LSVM026DSW05G	DST26NA	G	V	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	68	53
LBP	114X7228	OP-LSVM034DSW05G	DST34LA	G	V	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	69	54
MBP	114X7226	OP-MSTM008DYW05G	DLY80RAb	G	T	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	66	51
MBP	114X7229	OP-MSTM009DYW05G	DLY90RAb	G	T	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	66	51
MBP	114X7230	OP-MSTM012DPW05G	DPT12RA	G	T	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
MBP	114X7238	OP-MSSM012SCW05G	SC12G	G	G	A7	2200	0.39	1	365	1.3	B1	530	910	364	1/2"	1/2"	67	52
MBP	114X7231	OP-MSTM014DPW05G	DPT14RA	G	T	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
MBP	114X7239	OP-MSSM015SCW05G	SC15G	G	G	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
MBP	114X7232	OP-MSTM018DXW05G	DX18Tba	G	T	D7	3300	0.58	1	450	3.4	B1	690	1079	464	1/2"	1/2"	67	52
MBP	114X7240	OP-MSSM018SCW05G	SC18G	G	G	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	67	52
MBP	114X7241	OP-MSSM021SCW05G	SC21G	G	G	A7	2200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	68	53
MBP	114X7233	OP-MSTM022DSW05G	DS22TB	G	T	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	68	53
MBP	114X7248	OP-MSSM026CSW05G	CS26TB	G	G	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	68	53
MBP	114X7234	OP-MSTM026DSW05G	DS26TB	G	T	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	68	53
MBP	114X7235	OP-MSTM026DSW05E	DS26T3	E	T	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	68	53
MBP	114X7249	OP-MSSM030CSW05G	CS30TB	G	G	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	69	54
MBP	114X7237	OP-MSTM034DSW05G	DS34TB	G	T	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	69	54
MBP	114X7236	OP-MSTM034DSW05E	DS34T3	E	T	D7	3300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	69	54

(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz
E - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz
(2) S - R134a, R513A & R1234yf
T - R404A/R507,R455A,R454C,R448A/R449A,R452A ;
V - R454C, R455A, R452A, R404A/R507

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Designation		MSSM021SC	MSTM022DS	MSSM026CS	MSTM026DS	MSTM026DS	MSSM030CS	MSTM034DS	MSTM034DS
Code Number	W05	114X7241	114X7233	114X7248	114X7234	114X7235	114X7249	114X7237	114X7236
Compressor Description		SC21G	DS22TB	CS26TB	DS26TB	DS26T3	CS30TB	DS34TB	DS34T3
Oil (reference)		POE 22	POE 46	POE 32	POE 46	POE 46	POE 32	POE 46	POE 46
Housing		B1	B2	B2	B2	B2	B2	B2	B2
Spare Parts									
Compressor single pack		195B0636	123B6008	123B6001	123B6009	123B6011	123B6002	123B6010	123B6012
Condenser		118U5217	118U5218	118U5218	118U5218	118U5218	118U5218	118U5218	118U5218
Dual pressure switch		060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766
Fan assembly		-	-	-	-	-	-	-	-
Fan blade		118U3480	118U3481	118U3481	118U3481	118U3481	118U3481	118U3481	118U3481
Fan capacitor		118U3296	118U3297	118U3297	118U3297	118U3297	118U3297	118U3297	118U3297
Fan cowl/grill		118U3483	118U3484	118U3484	118U3484	118U3484	118U3484	118U3484	118U3484
Fan motor		118U3477	118U3823	118U3823	118U3823	118U3823	118U3823	118U3823	118U3823
Filter drier		023Z5040	023Z5041	023Z5041	023Z5041	023Z5041	023Z5041	023Z5041	023Z5041
Liquid valve		118U5254	118U5253	118U5253	118U5253	118U5253	118U5253	118U5253	118U5253
Receiver		118U4069	118U4069	118U4069	118U4069	118U4069	118U4069	118U4069	118U4069
E-box Cable gland		118U5258	118U5258	118U5258	118U5258	118U5258	118U5258	118U5258	118U5258
Sight glass		014L0182	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve		118U5254	118U5253	118U5253	118U5253	118U5253	118U5253	118U5253	118U5253
Brass plug (3/8" NPT)		118U4037	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Electrical Spare Parts									
Crankcase heater		120Z0057	120Z0057	120Z0057	120Z0057	120Z0057	120Z0057	120Z0057	120Z0057
Contactor kit		118U3893	118U3894	118U3894	118U3896	118U3893	118U3894	118U3867	118U3893
Timer		118U5257	118U5257	118U5257	118U5257	118U5257	118U5257	118U5257	118U5257
Main switch kit	W05	118U3980	118U3976	118U3976	118U3976	118U5088	118U3976	118U5102	118U5088
Overload relay		118U3978	118U3876	118U3876	118U3877	118U3978	118U3876	118U3879	118U3875
Run capacitor		117-7029	123B9215	-	123B9215	-	123B9302	123B9226	-
Starting capacitor		117U5373	123B9302	123B9304	123B9304	-	123B9146	123B9304	-
Starting relay		-	123B9154	123B9146	123B9154	-	123B9219	123B9154	-
Sequence phase relay		-	-	-	-	-	-	-	-
Electrical Characteristics									
LRA Compressor [A]		21.8	32	41.5	38	15.7	29	41	29
MCC Compressor [A]		4.60	8.40	8.70	11.50	4.80	8.80	17.50	6.40
Max cont.power [kW]		0.936	1.70	1.87	2.19	2.28	1.4	3.33	1.40
MCC Fan [A]		0.32	0.47	0.47	0.47	0.47	0.47	0.47	0.47
Fan Power [W]		1x25	1x68	1x68	1x68	1x68	1x68	1x68	1x68
Accessories (Not Premounted)									
Acoustic hood		-	-	-	-	-	-	-	-
Discharge Gas thermostat		7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Unit stand		118U5281	118U5282	118U5282	118U5282	118U5282	118U5282	118U5282	118U5282
Sheet Metal									
Top panel		118U5141	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146
Fan panel		118U5142	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147
Back panel		118U5143	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148
Left side panel		118U5167	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168
Service panel	W05	118U5144	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149

MCC - Max Continuous Current
LRA - Locked Rotor Amps
XGE - FSC, Fan Speed Controller
* - Spare part, Starting Kit

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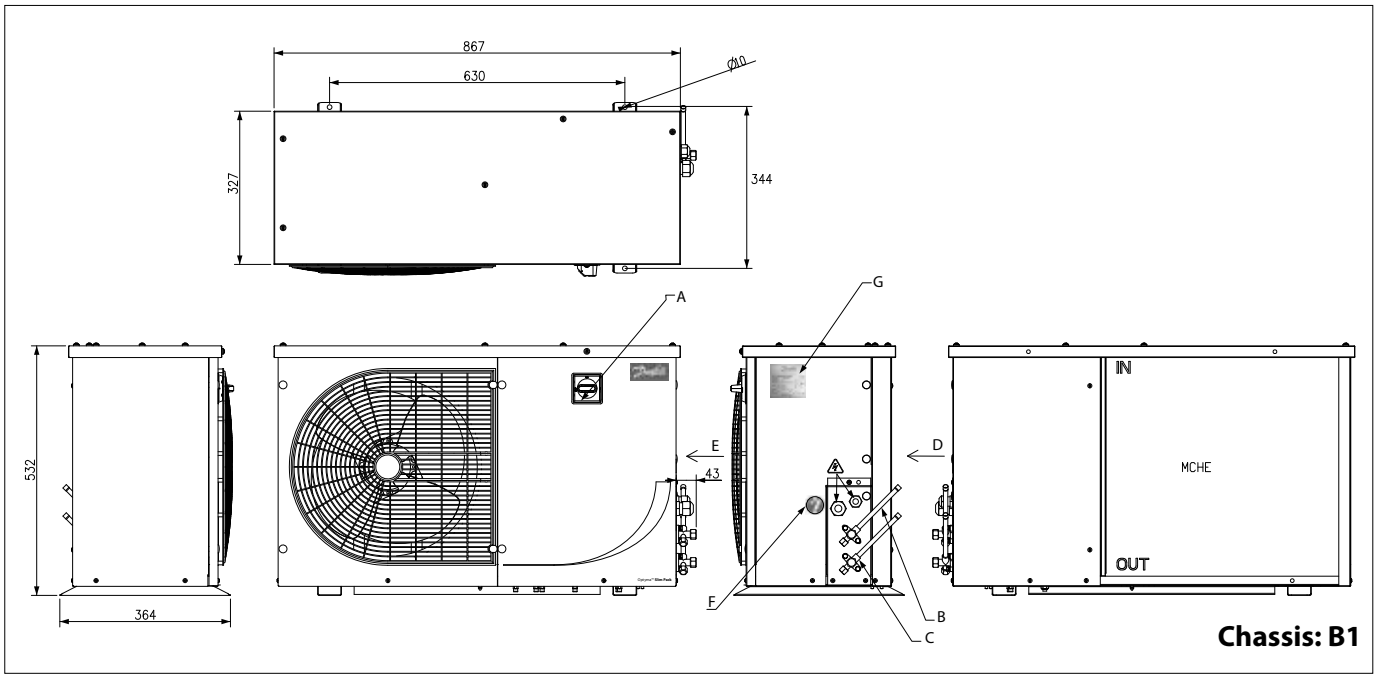

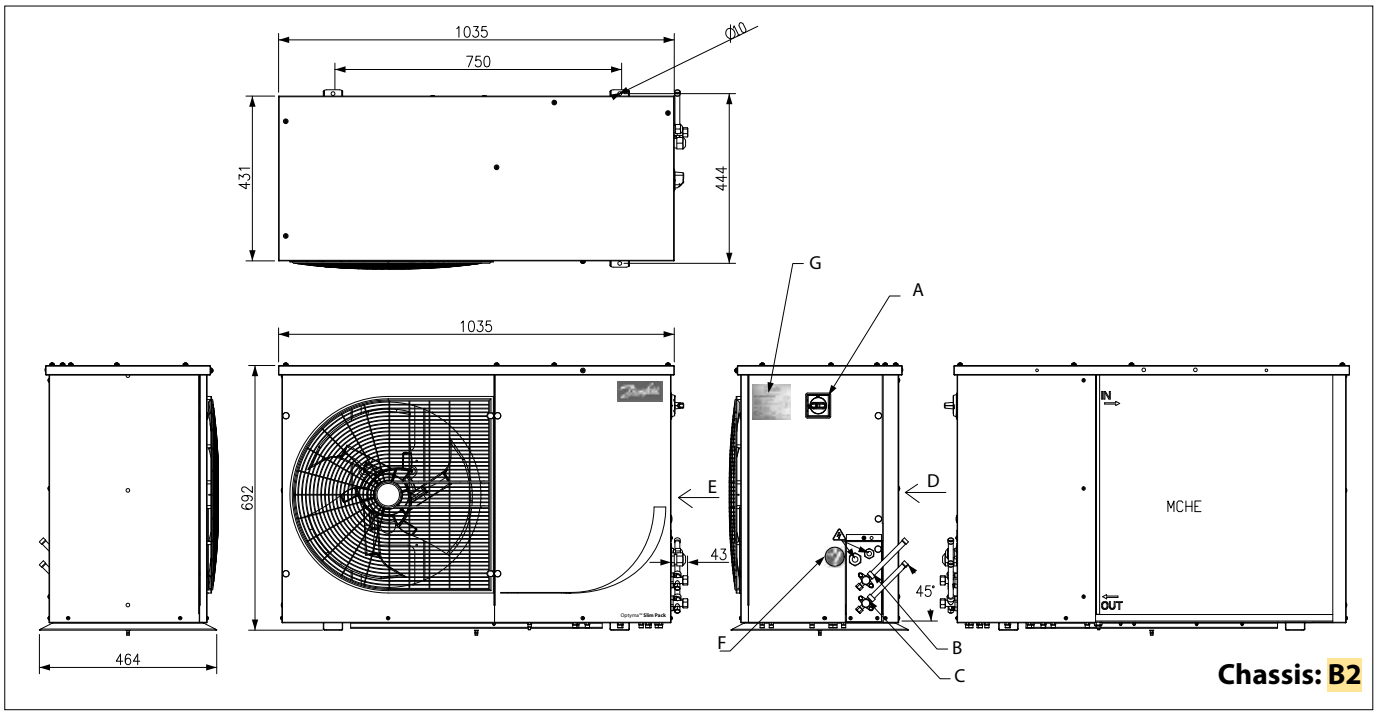

A Isolator Switch (W09 only)
B Suction Valve
C Liquid Valve
D Air in
E Air out
F Door safety Lable
G Name Plate
⚠ Electrical Cables
Note: all dimension are in mm

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For electrical wiring diagrams refer to installation guide AN233086440134O5-xxxxxx

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