

South Africa Catalogue

Optyma™ Packaged condensing units

R452A, R134a, R448A, R449A, R404A/R507 - 50 Hz



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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. When space, quiet operation, efficiency and simple installation matter.

With microchannel condenser

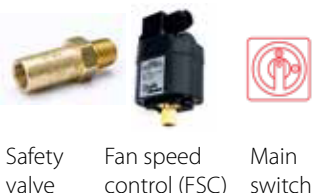
W04 Operating up to +48°C, Phase reversal for Scroll. Negative application model with crankcase heater on the compressor

Optyma™ Slim Pack W12



Compact and cost effective. When space, quieter operation, efficiency, faster and safer installation and maintenance matter.

W04 base
+



Safety valve

Fan speed control (FSC)

Main switch

Optyma™ Plus P06



Top performer. When quietness, high efficiency, connectivity and fastest installation and maintenance matter.

With electronic controller and Pressure release valve

Negative temperature application

Includes Liquid injection feature with electronic expansion valve and dedicated electronic controller.



Optyma™ Plus INVERTER P01



Premium unit. When top efficiency, fastest installation and maintenance, tight temperature and humidity control matter.

With variable speed drive



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: B = R452A, R404A/R507, R448A, R449A; J = R134a, R448A, R449A, R452A, R404A; P = R448A, R449A, R407A, R407F, R404A Q = R452A, R404A/R507; X = R404A/R507, R134a, R448A, R449A, R452A
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)
7	Version: W04 : Optyma™ Slim Pack 48°C ambient temperature W05 : Optyma™ Slim Pack 43°C ambient temperature W12 : Optyma™ Slim Pack W04 + Pressure release valve + FSC + Main switch P06 : Optyma™ Plus with Pressure release valve P01 : Optyma™ Plus INVERTER
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
	W05	W12	P06	P06 LBP	
IP level	IP54		IP54		IP54
Compressor technology	Scroll/Reciprocating		Scroll/Reciprocating	Scroll with liquid injection	Variable speed scroll
Control box (pre-wired E-panel)	yes		yes		yes
Microchannel condenser	yes		yes		yes
Pressure Release valve	-	yes	yes	-	yes
Filter drier (flare connections)	yes		yes		yes
Sight glass	yes		yes		yes
Crankcase heater	yes		yes		yes
HP/LP adjustable pressostat	Auto/Manual reset mode		Electronic		Electronic
Fail safe mini-pressostat	-		Mechanical		Mechanical
Access door(s)	-		yes		yes
Acoustic insulation	-		yes		yes
Condensing unit electronic controller	-		yes		yes
Network connectivity	-		yes		yes
Stack mounting	-		yes		-
Oil separator	-		-		yes
Discharge gas thermostat	yes*		yes		yes
HP/LP Alarm	yes*		yes		yes
Liquid injection kit	-		-	yes	-
Max ambient temperature	43°C	48°C	43°C		43°C
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
Dimensions in mm (height x width x depth)	B1 housing: 530 x 910 x 364 B2 housing: 690 x 1079 x 464 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

* Not premounted, provision available

Overview by range and refrigerant:

Min / Max Cooling capacity range [kW]	Optyma™ Slim Pack	Optyma™ Plus	Optyma™ Plus INVERTER	Optyma™ with Liquid injection (P06)
Medium temperature (MBP)				
R449A	0.8 - 10.2	0.7 - 14.9	1.7 - 8.3	-
R448A	3.3 - 10.2	3.3 - 14.9	1.7 - 8.3	-
R134a	0.6 - 6.6	1.7 - 10.2	-	-
R452A	1.5 - 10.8	1.5 - 16.2	-	-
R404A/507	0.9 - 10.3	0.7 - 16	1.8 - 9	-
Low temperature (LBP)				
R448A/R448A	-	-	-	2.3 - 6.0
R452A	0.4 - 3.3	0.4 - 6.1	-	0.4 - 6.1
R404A/507	0.4 - 3.6	0.5 - 6.2	-	0.5 - 6.2

Rating conditions EN 13215 (dew 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.

2.9 kg

Less refrigerant on bigger sizes for more savings



Quick and safe installation and service

Enjoy fast and easy installation with the main switch, service valves, and quick connections. Additionally, the easy-to-clean MCHE saves you time and effort on servicing.



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.



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.

W12 FEATURES

- Preset fan-speed controller for quieter operation
- Main switch for faster stand-alone installation and start-up, and safer maintenance



Standard range (W05 / W04) and upgraded range (W12)

Micro-channel heat exchanger is light and easy to clean
New MCHE coil alloy with 1000 hours salt spray test. Upgraded size condenser up to 48°C (W04 version)

Resistance to corrosion of the heat exchanger and housing prolongs the lifetime of the unit

Accessible fan and condenser for easy maintenance

Pressure Relief valve (W12)

Quick connections accelerate installation: just mount, braze, and plug

Filter drier and sight glass protect the unit from moisture, acids, and solid particles. Flare connections simplify maintenance

Accessible service ports on service valves (suction and liquid)

Thanks to the schrader valve the unit is compatible with various fan control devices

Dual KP17WB pressure control for enhanced safety

Receiver with shut-off valve, release valve makes servicing easier

Crankcase heater protects the compressor when operating under cold weather conditions

High SEPR/COP cuts energy costs

E.g. in a cold room where fruit & vegetables are stored and with 2.7 kW of cooling capacity.

Optyma™ Slim Pack MBP unit vs equivalent unit in the market*

Cooling cap.: 2.7 kW
Refrigerant: R134a



UNIT	Danfoss	Market
COP	2.18	1.70
USAGE	~ 8 245 kWh	~ 10 636 kWh

Annual energy consumption saved: 2391 kWh

Savings based on cost of energy:

2.12 ZAR / 1KWH = 2391 × 2.12 = 5069 ZAR

5069 ZAR

annual electricity savings made by your customer in South Africa

* Source: Danfoss

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						EcoDesign (3)		Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP			
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C				
OP-LSQM014MP	114X7106	W05	MPT14LA	G	27	-	0.44	0.56	0.68	0.81	0.95	0.980	62	31	
					32	-	0.39	0.5	0.61	0.73	0.86				
					38	-	0.34	0.43	0.53	0.64	0.76				
					43	-	0.30	0.38	0.47	0.57	0.67				
OP-LSQM018MP	114X7107	W05	MPT16LA	G	27	-	0.47	0.61	0.76	0.93	1.11	0.980	63	32	
					32	-	0.42	0.55	0.69	0.84	1.01				
					38	-	0.36	0.47	0.6	0.74	0.89				
					43	-	0.31	0.41	0.52	0.65	0.79				
OP-LSQM026AJ	114X7085	W05	CAJ2446Z	G	27	0.50	0.7	0.93	1.20	1.52	1.8	0.990	69	38	
					32	0.44	0.61	0.83	1.08	1.38	1.72				
					38	0.36	0.52	0.71	0.94	1.21	1.52				
					43	-	0.44	0.62	0.82	1.06	1.34				
OP-LSQM034AJ	114X7086	W05	CAJ2464Z	G	27	0.66	0.91	1.2	1.55	1.96	2.44	0.980	69	38	
					32	0.58	0.81	1.08	1.40	1.78	2.23				
					38	0.49	0.69	0.93	1.22	1.57	1.97				
					43	-	0.59	0.81	1.07	1.39	1.76				
OP-LPQE048NT	114X7256	W12	NTZ048	E	32	0.650	0.873	1.253	1.597	1.971	2.362	0.920	71	40	
					38	-	0.775	1.064	1.368	1.694	-				
					43	-	-	0.906	1.178	-	-				
					46	-	-	0.811	-	-	-				
OP-LPQE048NT	114X7255	W12	NTZ048	G	32	0.676	0.892	1.282	1.651	2.066	2.508	0.960	71	40	
					38	-	0.798	1.091	1.418	1.784	-				
					43	-	-	0.940	1.232	-	-				
					46	-	-	0.854	-	-	-				
OP-LPQE068NT	114X7258	W12	NTZ068	E	32	1.145	1.468	2.046	2.570	3.132	3.742	1.110	71	40	
					38	-	1.312	1.736	2.193	2.700	-				
					43	-	-	1.491	1.899	-	-				
					46	-	-	1.349	-	-	-				
OP-LPQE068NT	114X7257	W12	NTZ068	G	32	1.164	1.481	2.035	2.553	3.135	3.753	0.980	71	40	
					38	-	1.303	1.725	2.189	2.708	-				
					43	-	-	1.476	1.895	-	-				
					46	-	-	1.331	-	-	-				
OP-LPQE067LL	114X7259	W12	LLZ013	E	32	1.887	2.305	3.084	3.860	4.791	5.870	1.150	71	40	
					38	1.723	2.197	2.787	3.483	4.322	5.301				
					43	1.590	2.011	2.539	3.165	3.925	4.818				
					46	-	-	2.389	2.972	3.683	4.523				
OP-LPQE083LL	114X7260	W12	LLZ015	E	32	2.359	2.855	3.756	4.638	5.682	6.883	1.160	73	42	
					38	2.119	2.689	3.379	4.176	5.124	6.218				
					43	1.914	2.428	3.051	3.774	4.637	5.639				
					46	-	-	2.849	3.525	4.336	5.281				
OP-LPQE097LL	114X7261	W12	LLZ018	E	32	2.774	3.361	4.418	5.446	6.658	8.043	1.180	73	42	
					38	2.486	3.160	3.971	4.900	5.999	7.260				
					43	2.238	2.848	3.582	4.425	5.425	6.579				
					46	-	-	3.342	4.131	5.070	6.158				

LBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew point) -35°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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated contion (3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C			
OP-LSQM014MP	114X7106	W05	MPT14LA	G	27	-	0.5	0.64	0.8	0.98	1.17	1.04	62	31
					32	-	0.44	0.58	0.73	0.89	1.07			
					38	-	0.38	0.5	0.63	0.78	0.95			
					43	-	0.33	0.44	0.56	0.69	0.85			
OP-LSQM018MP	114X7107	W05	MPT16LA	G	27	-	0.54	0.71	0.91	1.12	1.35	1.08	63	32
					32	-	0.48	0.64	0.82	1.02	1.23			
					38	-	0.41	0.55	0.71	0.89	1.09			
					43	-	0.36	0.48	0.63	0.79	0.97			
OP-LSQM026AJ	114X7085	W05	CAJ2446Z	G	27	0.53	0.74	0.98	1.28	1.62	2	1.02	69	38
					32	0.46	0.65	0.88	1.15	1.46	1.82			
					38	0.37	0.54	0.75	0.99	1.27	1.6			
					43	-	0.46	0.64	0.86	1.12	1.41			
OP-LSQM034AJ	114X7086	W05	CAJ2464Z	G	27	0.69	0.94	1.24	1.6	2.01	2.49	0.98	69	38
					32	0.6	0.83	1.11	1.44	1.82	2.26			
					38	0.5	0.71	0.95	1.25	1.59	1.99			
					43	-	0.6	0.82	1.09	1.4	1.76			
OP-LPQE048NT	114X7255	W12	NTZ048	G	32	0.675	1.011	1.417	1.898	2.454	3.087	0.92	71	40
					38	0.525	0.826	1.189	1.618	2.115	2.681			
					43	0.404	0.675	1.001	1.386	1.833	2.342			
					46	0.334	0.587	0.891	1.249	1.664	2.140			
OP-LPQE048NT	114X7256	W12	NTZ048	E	32	0.690	1.026	1.426	1.892	2.426	3.028	1.01	71	40
					38	0.554	0.854	1.210	1.623	2.096	2.631			
					43	0.444	0.714	1.031	1.4	1.823	2.302			
					46	0.379	0.631	0.926	1.269	1.661	2.106			
OP-LPQE068NT	114X7257	W12	NTZ068	G	32	1.222	1.647	2.157	2.753	3.436	4.202	1	71	40
					38	1.051	1.426	1.872	2.394	2.991	3.660			
					43	0.908	1.242	1.638	2.098	2.624	3.215			
					46	0.822	1.132	1.497	1.921	2.405	2.949			
OP-LPQE068NT	114X7258	W12	NTZ068	E	32	1.205	1.668	2.208	2.829	3.529	4.303	1.08	71	40
					38	0.999	1.411	1.890	2.439	3.060	3.751			
					43	0.842	1.212	1.64	2.131	2.686	3.306			
					46	0.754	1.098	1.497	1.952	2.467	3.045			
OP-LPQE067LL	114X7259	W12	LLZ013	E	32	2.080	2.675	3.377	4.197	5.148	6.241	1.17	71	40
					38	1.845	2.393	3.034	3.781	4.644	5.637			
					43	-	2.147	2.734	3.415	4.203	5.11			
					46	-	1.993	2.546	3.187	3.929	4.783			
OP-LPQE083LL	114X7260	W12	LLZ015	E	32	2.513	3.210	4.049	5.042	6.204	7.544	1.21	73	42
					38	2.243	2.876	3.631	4.524	5.566	6.771			
					43	-	2.583	3.267	4.072	5.013	6.103			
					46	-	2.401	3.040	3.792	4.672	5.692			
OP-LPQE097LL	114X7261	W12	LLZ018	E	32	2.930	3.738	4.706	5.848	7.177	8.703	1.25	73	42
					38	2.613	3.345	4.215	5.238	6.428	7.796			
					43	-	3	3.786	4.708	5.779	7.014			
					46	-	2.785	3.519	4.379	5.378	6.531			

LBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew point) -35°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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							Rated contion (3)		Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]							COP			
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C				
OP- MPJE034ML	114X7264	W12	MLZ015	E	32	1.750	2.212	2.757	3.391	4.120	4.949	5.882	2.090		69	38
					38	1.631	2.062	2.574	3.172	3.863	4.652	5.542				
					43	1.532	1.936	2.418	2.985	3.643	4.396	5.248				
					46	-	-	2.324	2.871	3.507	4.238	5.151				
OP- MPJE034ML	114X7265	W12	MLZ015	G	32	1.749	2.244	2.806	3.442	4.157	4.960	5.858	2.030		69	38
					38	1.617	2.082	2.615	3.223	3.912	4.689	5.561				
					43	1.511	1.945	2.449	3.029	3.691	4.442	5.288				
					46	-	-	2.347	2.908	3.553	4.286	5.161				
OP-MPJE046ML	114X7040	W04	MLZ021	G	32	2.381	3.026	3.771	4.621	5.581	6.655	7.848	2.030		69	38
					38	2.204	2.803	3.506	4.315	5.237	6.274	7.432				
					43	2.063	2.616	3.275	4.045	4.928	5.929	7.051				
					46	-	-	3.135	3.878	4.735	5.711	2.186				
OP-MPJE046ML	114X7250	W12	MLZ021	E	32	2.397	3.005	3.733	4.584	5.563	6.671	7.911	2.250		69	38
					38	2.226	2.798	3.483	4.286	5.211	6.259	7.434				
					43	2.081	2.620	3.268	4.029	4.907	5.905	7.025				
					46	-	-	3.136	3.871	4.721	5.688	1.972				
OP-MPJE057ML	114X7073	W04	MLZ026	G	32	2.906	3.692	4.599	5.631	6.795	8.096	9.540	1.950		69	38
					38	2.697	3.422	4.271	5.250	6.362	7.614	9.011				
					43	2.532	3.195	3.988	4.914	5.977	7.180	8.529				
					46	-	-	3.817	4.707	5.736	6.908	2.860				
OP-MPJE057ML	114X7262	W12	MLZ026	E	32	2.906	3.673	4.568	5.601	6.781	8.113	9.603	2.310		69	38
					38	2.691	3.413	4.257	5.232	6.346	7.607	9.019				
					43	2.511	3.193	3.991	4.914	5.972	7.170	8.515				
					46	-	-	3.829	4.720	5.742	6.902	2.438				
OP-MPJE068ML	114X7042	W04	MLZ030	G	32	3.683	4.502	5.568	6.840	8.283	9.866	11.560	2.050		70	39
					38	3.518	4.222	5.193	6.386	7.766	9.299	10.950				
					43	3.391	3.990	4.872	5.991	7.310	8.793	10.410				
					46	-	-	4.677	5.748	7.026	8.477	3.228				
OP-MPJE068ML	114X7251	W12	MLZ030	E	32	3.537	4.460	5.550	6.816	8.268	9.913	11.760	2.320		70	39
					38	3.293	4.156	5.180	6.373	7.746	9.306	11.060				
					43	3.090	3.899	4.863	5.993	7.296	8.782	10.460				
					46	-	-	4.670	5.759	7.020	8.459	2.865				
OP-MPJE080ML	114X7044	W04	MLZ038	G	32	4.071	5.296	6.625	8.088	9.710	11.520	13.530	2.190		70	39
					38	3.690	4.873	6.150	7.551	9.103	10.830	12.760				
					43	3.350	4.496	5.729	7.077	8.568	10.230	12.080				
					46	-	-	5.467	6.783	8.238	9.857	3.547				
OP-MPJE080ML	114X7252	W12	MLZ038	E	32	4.127	5.225	6.504	7.978	9.660	11.560	13.690	2.290		70	39
					38	3.816	4.854	6.061	7.453	9.042	10.840	12.850				
					43	3.553	4.537	5.682	7.002	8.512	10.220	12.140				
					46	-	-	5.450	6.726	8.186	9.842	3.455				
OP-MPJE099ML	114X7253	W12	MLZ045	E	32	5.105	6.418	7.989	9.807	11.860	14.140	16.620	2.470		70	39
					38	4.731	5.950	7.424	9.140	11.080	13.250	15.610				
					43	4.422	5.554	6.937	8.559	10.410	12.470	14.730				
					46	-	-	6.639	8.201	9.988	11.980	4.078				
OP-MPJE108ML	114X7254	W12	MLZ048	E	32	5.399	6.788	8.429	10.320	12.450	14.820	17.410	2.430		70	39
					38	4.990	6.286	7.829	9.613	11.630	13.870	16.340				
					43	4.648	5.861	7.314	9.002	10.920	13.050	15.400				
					46	-	-	6.999	8.626	10.480	12.550	4.376				

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated condition (3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C			
OP- MPJE034ML	114X7264	W12	MLZ015	G	32	2.402	2.980	3.629	4.380	5.209	6.147	2.050	69	38
					38	2.165	2.698	3.297	3.994	4.766	5.643			
					43	-	2.453	3.009	3.658	4.379	-			
					46	-	-	2.831	3.450	-	-			
OP- MPJE034ML	114X7265	W12	MLZ015	E	32	2.405	2.987	3.640	4.394	5.225	6.164	2.100	69	38
					38	2.188	2.725	3.327	4.026	4.796	5.672			
					43	-	2.501	3.059	3.709	4.428	-			
					46	-	-	2.896	3.514	-	-			
OP-MPJE046ML	114X7040	W04	MLZ021	G	32	3.284	4.071	4.954	5.976	7.102	8.379	2.060	69	38
					38	2.980	3.704	4.517	5.461	6.506	7.699			
					43	-	3.391	4.143	5.020	5.995	-			
					46	-	-	3.915	4.750	-	-			
OP-MPJE046ML	114X7250	W12	MLZ021	E	32	3.263	4.044	4.918	5.927	7.035	8.285	2.150	69	38
					38	2.941	3.658	4.462	5.394	6.420	7.584			
					43	-	3.328	4.070	4.933	5.889	-			
					46	-	-	3.830	4.650	-	-			
OP-MPJE057ML	114X7073	W04	MLZ026	G	32	4.053	5.020	6.100	7.343	8.704	10.240	2.060	69	38
					38	3.656	4.536	5.522	6.663	7.918	9.341			
					43	-	4.117	5.019	6.068	7.230	-			
					46	-	-	4.709	5.700	-	-			
OP-MPJE057ML	114X7262	W12	MLZ026	E	32	3.980	4.955	6.031	7.258	8.591	10.080	2.110	69	38
					38	3.544	4.445	5.438	6.573	7.809	9.197			
					43	-	4.004	4.924	5.977	7.127	-			
					46	-	-	4.607	5.609	-	-			
OP-MPJE068ML	114X7042	W04	MLZ030	G	32	4.858	6.009	7.294	8.776	10.410	12.260	2.150	70	39
					38	4.383	5.442	6.626	7.996	9.511	11.240			
					43	-	4.957	6.053	7.325	8.738	-			
					46	-	-	5.702	6.913	-	-			
OP-MPJE068ML	114X7251	W12	MLZ030	E	32	4.884	6.028	7.308	8.787	10.410	12.260	2.240	70	39
					38	4.389	5.440	6.619	7.985	9.494	11.210			
					43	-	4.929	6.017	7.283	8.689	-			
					46	-	-	5.644	6.847	-	-			
OP-MPJE080ML	114X7044	W04	MLZ038	G	32	5.710	7.039	8.509	10.190	12.020	14.080	2.130	70	39
					38	5.200	6.423	7.774	9.321	11.010	12.920			
					43	-	5.889	7.136	8.567	10.130	-			
					46	-	-	6.743	8.102	-	-			
OP-MPJE080ML	114X7252	W12	MLZ038	E	32	5.752	7.082	8.565	10.270	12.130	14.230	2.290	70	39
					38	5.177	6.398	7.763	9.337	11.060	13.010			
					43	-	5.810	7.071	8.530	10.140	-			
					46	-	-	6.646	8.034	-	-			
OP-MPJE099ML	114X7253	W12	MLZ045	E	32	6.977	8.638	10.470	12.560	14.820	17.350	2.210	70	39
					38	6.279	7.795	9.467	11.370	13.450	15.790			
					43	-	7.063	8.595	10.350	12.270	-			
					46	-	-	8.056	9.711	-	-			
OP-MPJE108ML	114X7254	W12	MLZ048	E	32	7.506	9.258	11.200	13.430	15.860	18.590	2.140	70	39
					38	6.742	8.341	10.120	12.160	14.400	16.930			
					43	-	7.550	9.180	11.060	13.130	-			
					46	-	-	8.602	10.380	-	-			

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated condition (3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C			
OP- MPJE034ML	114X7264	W12	MLZ015	G	32	2.375	2.949	3.607	4.342	5.184	6.102	2.040	69	38
					38	2.139	2.668	3.277	3.957	4.741	5.599			
					43	-	2.424	2.988	3.621	4.355	-			
					46	-	-	2.810	3.414	4.115	-			
OP- MPJE034ML	114X7265	W12	MLZ015	E	32	2.377	2.956	3.619	4.356	5.200	6.119	2.090	69	38
					38	2.162	2.695	3.307	3.989	4.772	5.628			
					43	-	2.472	3.039	3.673	4.403	-			
					46	-	-	2.875	3.479	4.177	-			
OP-MPJE046ML	114X7040	W04	MLZ021	G	32	3.247	4.029	4.925	5.923	7.068	8.316	2.050	69	38
					38	2.944	3.663	4.488	5.410	6.472	7.638			
					43	-	3.351	4.114	4.970	5.960	-			
					46	-	-	3.887	4.701	5.647	-			
OP-MPJE046ML	114X7250	W12	MLZ021	E	32	3.225	4.001	4.889	5.874	7.001	8.225	2.140	69	38
					38	2.906	3.618	4.434	5.343	6.387	7.525			
					43	-	3.289	4.042	4.884	5.855	-			
					46	-	-	3.801	4.601	5.528	-			
OP-MPJE057ML	114X7073	W04	MLZ026	G	32	4.007	4.967	6.063	7.277	8.661	10.160	2.040	69	38
					38	3.611	4.485	5.486	6.599	7.874	9.265			
					43	-	4.067	4.982	6.005	7.186	-			
					46	-	-	4.671	5.638	6.758	-			
OP-MPJE057ML	114X7262	W12	MLZ026	E	32	3.933	4.902	5.994	7.193	8.549	10.010	2.100	69	38
					38	3.498	4.394	5.402	6.510	7.766	9.124			
					43	-	3.954	4.887	5.915	7.083	-			
					46	-	-	4.570	5.547	6.661	-			
OP-MPJE068ML	114X7042	W04	MLZ030	G	32	4.803	5.946	7.251	8.698	10.360	12.170	2.140	70	39
					38	4.330	5.382	6.584	7.921	9.460	11.150			
					43	-	4.899	6.010	7.251	8.687	-			
					46	-	-	5.659	6.841	-	-			
OP-MPJE068ML	114X7251	W12	MLZ030	E	32	4.829	5.966	7.266	8.710	10.360	12.170	2.230	70	39
					38	4.337	5.380	6.576	7.910	9.444	11.120			
					43	-	4.871	5.974	7.209	8.638	-			
					46	-	-	5.601	6.774	-	-			
OP-MPJE080ML	114X7044	W04	MLZ038	G	32	5.645	6.967	8.460	10.100	11.960	13.980	2.120	70	39
					38	5.138	6.353	7.725	9.236	10.950	12.820			
					43	-	5.821	7.087	8.483	10.080	-			
					46	-	-	6.693	8.019	-	-			
OP-MPJE080ML	114X7252	W12	MLZ038	E	32	5.688	7.009	8.515	10.180	12.080	14.120	2.270	70	39
					38	5.115	6.328	7.713	9.250	11.010	12.910			
					43	-	5.742	7.021	8.445	10.080	-			
					46	-	-	6.596	7.950	-	-			
OP-MPJE099ML	114X7253	W12	MLZ045	E	32	6.902	8.555	10.420	12.460	14.760	17.240	2.200	70	39
					38	6.208	7.717	9.418	11.280	13.400	15.680			
					43	-	6.990	8.548	10.260	12.210	-			
					46	-	-	8.011	9.630	-	-			
OP-MPJE108ML	114X7254	W12	MLZ048	E	32	7.419	9.161	11.140	13.310	15.780	18.450	2.130	70	39
					38	6.658	8.246	10.050	12.050	14.320	16.790			
					43	-	7.458	9.115	10.960	13.060	-			
					46	-	-	8.535	10.280	-	-			

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated condition(3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C			
OP-MSBM018AJ	114X7111	W05	CAJ9510Z	G	27	1.010	1.290	1.610	1.980	2.400	2.870	1.69	70	39
					32	0.920	1.170	1.470	1.810	2.190	2.630			
					38	0.800	1.030	1.300	1.610	1.950	2.350			
					43	0.710	0.920	1.150	1.430	-	-			
OP-MSBM024AJ	114X7097	W05	CAJ9513Z	G	27	1.270	1.650	2.070	2.570	3.120	3.740	1.88	70	39
					32	1.140	1.490	1.880	2.340	2.850	3.420			
					38	0.980	1.290	1.650	2.060	2.520	3.040			
					43	0.850	1.130	1.450	1.830	-	-			
OP-MSBM026AJ	114X7093	W05	TAJ4517Z	E	27	1.410	1.820	2.270	2.790	3.360	4.010	1.75	70	39
					32	1.260	1.640	2.060	2.540	3.070	3.670			
					38	1.080	1.430	1.810	2.240	2.720	3.270			
					43	0.930	1.240	1.590	1.990	-	-			
OP-MSBM026AJ	114X7083	W05	CAJ4517Z	G	27	1.440	1.830	2.270	2.780	3.340	3.980	1.85	70	39
					32	1.300	1.660	2.070	2.540	3.060	3.650			
					38	1.130	1.460	1.820	2.240	2.710	3.250			
					43	0.990	1.290	1.620	2.000	-	-			
OP-MSBM034AJ	114X7094	W05	TAJ4519Z	E	27	1.830	2.320	2.880	3.510	4.200	4.990	1.77	71	40
					32	1.650	2.120	2.630	3.210	3.860	4.580			
					38	1.440	1.860	2.320	2.850	3.440	4.090			
					43	1.250	1.640	2.070	2.550	-	-			
OP-MSBM034AJ	114X7084	W05	CAJ4519Z	G	27	1.830	2.340	2.920	3.570	4.290	5.110	1.71	71	40
					32	1.650	2.130	2.660	3.270	3.930	4.680			
					38	1.430	1.860	2.340	2.890	3.490	4.160			
					43	1.240	1.640	2.070	2.570	-	-			
OP- MPJE034ML	114X7264	W12	MLZ015	E	32	2.407	2.967	3.599	4.333	5.145	6.072	2.070	69	38
					38	2.176	2.681	3.252	3.917	4.657	5.505			
					43	1.977	2.435	2.954	3.560	4.238	5.019			
					46	-	2.284	2.770	3.341	3.980				
OP- MPJE034ML	114X7265	W12	MLZ015	G	32	2.426	2.989	3.625	4.364	5.182	6.114	2.070	69	38
					38	2.187	2.696	3.273	3.947	4.695	5.554			
					43	1.983	2.444	2.969	3.585	4.274	5.068			
					46	-	2.289	2.782	3.362	4.014				
OP-MPJE046ML	114X7040	W04	MLZ021	G	32	3.281	4.045	4.898	5.881	6.959	8.180	2.080	69	38
					38	2.957	3.647	4.418	5.308	6.289	7.407			
					43	2.680	3.303	4.001	4.811	5.708	6.735			
					46	-	3.091	3.744	4.504	5.348	-			
OP-MPJE046ML	114X7250	W12	MLZ021	E	32	3.243	4.013	4.876	5.875	6.975	8.220	2.160	69	38
					38	2.903	3.601	4.386	5.296	6.303	7.449			
					43	2.612	3.247	3.963	4.796	5.722	6.782			
					46	-	3.030	3.702	4.488	5.364				
OP-MPJE057ML	114X7073	W04	MLZ026	G	32	4.051	4.991	6.035	7.231	8.536	10.010	2.110	69	38
					38	3.644	4.488	5.427	6.504	7.686	9.028			
					43	3.293	4.052	4.897	5.872	6.946	8.173			
					46	-	3.783	4.569	5.479	6.486	-			
OP-MPJE057ML	114X7262	W12	MLZ026	E	32	3.992	4.920	5.954	7.143	8.445	9.915	2.150	69	38
					38	3.553	4.386	5.318	6.392	7.575	8.919			
					43	3.175	3.923	4.763	5.737	6.815	8.048			
					46	-	3.637	4.420	5.330	6.342				

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) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated condition(3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C			
OP-MPJE068ML	114X7042	W04	MLZ030	G	32	4.897	6.012	7.268	8.724	10.330	12.160	2.150	70	39
					38	4.414	5.417	6.549	7.866	9.329	11.000			
					43	4.001	4.905	5.928	7.126	8.462	10.000			
					46	-	4.589	5.545	6.668	7.927	-			
OP-MPJE068ML	114X7251	W12	MLZ030	E	32	4.871	5.996	7.268	8.749	10.390	12.250	2.230	70	39
					38	4.388	5.399	6.548	7.891	9.384	11.090			
					43	3.976	4.889	5.929	7.153	8.523	10.100			
					46	-	4.576	5.550	6.701	7.994				
OP-MPJE080ML	114X7044	W04	MLZ038	G	32	5.650	6.974	8.455	10.160	12.040	14.160	2.120	70	39
					38	5.049	6.245	7.587	9.141	10.850	12.800			
					43	4.534	5.616	6.834	8.252	9.824	11.620			
					46	-	5.229	6.370	7.702	9.187	-			
OP-MPJE080ML	114X7252	W12	MLZ038	E	32	5.642	6.952	8.417	10.100	11.950	14.040	2.230	70	39
					38	5.020	6.207	7.538	9.077	10.770	12.700			
					43	4.484	5.561	6.774	8.183	9.742	11.520			
					46	-	5.164	6.302	7.629	9.104				
OP-MPJE093ML	114X7046	W04	MLZ042	G	32	6.507	7.988	9.660	11.610	13.760	16.210	2.030	70	39
					38	5.818	7.141	8.643	10.400	12.360	14.610			
					43	5.226	6.407	7.756	9.349	11.140	13.210			
					46	-	5.954	7.207	8.695	10.380	-			
OP-MPJE099ML	114X7253	W12	MLZ045	E	32	6.989	8.574	10.340	12.370	14.590	17.070	2.160	70	39
					38	6.245	7.660	9.244	11.070	13.080	15.340			
					43	5.602	6.865	8.285	9.934	11.750	13.820			
					46	-	6.374	7.691	9.227	10.930				
OP-MPJE108ML	114X7254	W12	MLZ048	E	32	7.528	9.266	11.210	13.430	15.860	18.580	2.160	70	39
					38	6.662	8.219	9.964	11.980	14.180	16.670			
					43	5.920	7.315	8.886	10.710	12.720	15.000			
					46	-	6.760	8.222	9.926	11.810				

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)						Rated condition(3)	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
						Te [°C]						COP		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C			
OP- MPJE034ML	114X7265	W12	MLZ015	G	32	2.410	2.937	3.537	4.214	4.971	5.811	1.98	69	38
					38	2.137	2.614	3.158	3.775	4.469	5.244			
					43	1.902	2.336	2.834	3.400	-	-			
					46	1.757	2.166	2.636	-	-	-			
OP- MPJE034ML	114X7264	W12	MLZ015	E	32	2.293	2.843	3.460	4.149	4.914	5.756	2.02	69	38
					38	1.967	2.473	3.034	3.657	4.348	5.111			
					43	1.675	2.144	2.659	3.229	-	-			
					46	1.491	1.937	2.425	-	-	-			
OP-MPJE046ML	114X7040	W04	MLZ021	G	32	3.207	3.897	4.674	5.540	6.500	7.552	1.95	69	38
					38	2.821	3.439	4.136	4.916	5.783	6.743			
					43	2.481	3.037	3.665	4.372	-	-			
					46	2.268	2.787	3.373	-	-	-			
OP-MPJE046ML	114X7250	W12	MLZ021	E	32	3.167	3.845	4.605	5.455	6.400	7.447	1.99	69	38
					38	2.787	3.397	4.080	4.843	5.698	6.652			
					43	2.45	3.001	3.617	4.309	-	-			
					46	2.237	2.753	3.329	-	-	-			
OP-MPJE057ML	114X7073	W04	MLZ026	G	32	3.722	4.511	5.402	6.398	7.496	8.690	1.72	69	38
					38	3.286	3.984	4.773	5.658	6.638	7.710			
					43	2.91	3.529	4.228	5.014	-	-			
					46	2.677	3.246	3.889	-	-	-			
OP-MPJE057ML	114X7262	W12	MLZ026	E	32	3.716	4.504	5.394	6.389	7.488	8.682	1.78	69	38
					38	3.282	3.978	4.766	5.650	6.631	7.703			
					43	2.907	3.524	4.222	5.008	-	-			
					46	2.675	3.242	3.884	-	-	-			
OP-MPJE068ML	114X7042	W04	MLZ030	G	32	5.041	6.201	7.537	9.061	10.780	12.700	2.39	70	39
					38	4.494	5.552	6.775	8.177	9.768	11.560			
					43	4.021	4.99	6.112	7.405	-	-			
					46	3.729	4.642	5.701	-	-	-			
OP-MPJE068ML	114X7251	W12	MLZ030	E	32	5.035	6.193	7.528	9.052	10.770	12.690	2.44	70	39
					38	4.489	5.546	6.768	8.169	9.760	11.550			
					43	4.017	4.984	6.105	7.397	-	-			
					46	3.726	4.636	5.694	-	-	-			
OP-MPJE080ML	114X7044	W04	MLZ038	G	32	5.784	7.180	8.763	10.520	12.450	14.520	2.32	70	39
					38	5.094	6.354	7.799	9.418	11.200	13.140			
					43	4.521	5.656	6.972	8.463	-	-			
					46	4.182	5.236	6.469	-	-	-			
OP-MPJE080ML	114X7252	W12	MLZ038	E	32	5.977	7.302	8.818	10.540	12.490	14.640	2.47	70	39
					38	5.304	6.509	7.889	9.459	11.240	13.230			
					43	4.711	5.804	7.064	8.499	-	-			
					46	4.345	5.365	6.547	-	-	-			
OP-MPJE099ML	114X7253	W12	MLZ045	E	32	7.024	8.563	10.320	12.290	14.500	16.930	2.27	70	39
					38	6.214	7.597	9.180	10.970	12.980	15.220			
					43	5.501	6.749	8.186	9.824	-	-			
					46	5.057	6.222	7.570	-	-	-			
OP-MPJE108ML	114X7254	W12	MLZ048	E	32	7.596	9.244	11.100	13.170	15.500	18.100	2.25	70	39
					38	6.707	8.195	9.864	11.740	13.860	16.230			
					43	5.926	7.277	8.791	10.500	-	-			
					46	5.441	6.707	8.126	-	-	-			

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Application	Code	Version	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
								(m³/h)	(dm³)		(mm)	(L)		mm	mm	mm	inch	inch	Kg	Kg
LBP	114X7106	W05	OP-LSQM014MP	MPT14LA	G	Q	A7	2,200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	64	51
LBP	114X7107	W05	OP-LSQM018MP	MPT16LA	G	Q	A7	2,200	0.39	1	365	1.3	B1	530	910	364	3/8"	3/8"	65	51
LBP	114X7085	W05	OP-LSQM026AJ	CAJ2446Z	G	Q	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	77	62
LBP	114X7086	W05	OP-LSQM034AJ	CAJ2464Z	G	Q	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	77	62
LBP	114X7053	W12	OP-LPQE048NT	NTZ048-5B	G	Q	D7	5,000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	81	63
LBP	114X7054	W12	OP-LPQE048NT	NTZ048-4B	E	Q	D7	5,000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	81	63
LBP	114X7055	W12	OP-LPQE068NT	NTZ068-5B	G	Q	D7	5,000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	83	65
LBP	114X7056	W12	OP-LPQE068NT	NTZ068-4B	E	Q	D7	5,000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	83	65
LBP	114X7057	W12	OP-LPQE067LL	LLZ013T4A	E	Q	G7	6,700	1.62	1	609	6.2	B3	825	1105	464	3/4"	1/2"	118	100
LBP	114X7058	W12	OP-LPQE083LL	LLZ015T4A	E	Q	G7	6,700	1.62	1	609	6.2	B3	825	1105	464	3/4"	1/2"	118	100
LBP	114X7059	W12	OP-LPQE097LL	LLZ018T4A	E	Q	G7	6,700	1.62	1	609	6.2	B3	825	1105	464	3/4"	1/2"	119	101
MBP	114X7111	W05	OP-MSBM018AJ	CAJ9510Z	G	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	77	62
MBP	114X7097	W05	OP-MSBM024AJ	CAJ9513Z	G	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	78	63
MBP	114X7093	W05	OP-MSBM026AJ	TAJ4517Z	E	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	74	59
MBP	114X7083	W05	OP-MSBM026AJ	CAJ4517Z	G	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	78	63
MBP	114X7094	W05	OP-MSBM034AJ	TAJ4519Z	E	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	77	62
MBP	114X7084	W05	OP-MSBM034AJ	CAJ4519Z	G	B	D7	3,300	0.58	1	450	3.4	B2	690	1079	464	1/2"	1/2"	78	63
MBP	114X7265	W12	OP-MPJE034ML	MLZ015T5A	G	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7264	W12	OP-MPJE034ML	MLZ015T4A	E	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7040	W04	OP-MPJE046ML	MLZ021T5A	G	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7250	W12	OP-MPJE046ML	MLZ021T4A	E	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7073	W04	OP-MPJE057ML	MLZ026T5A	G	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7262	W12	OP-MPJE057ML	MLZ026T4A	E	J	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73
MBP	114X7042	W04	OP-MPJE068ML	MLZ030T5A	G	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7251	W12	OP-MPJE068ML	MLZ030T4A	E	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7044	W04	OP-MPJE080ML	MLZ038T5A	G	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7252	W12	OP-MPJE080ML	MLZ038T4A	E	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7046	W12	OP-MPJE093ML	MLZ042T5A	G	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7253	W12	OP-MPJE099ML	MLZ045T4A	E	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7254	W12	OP-MPJE108ML	MLZ048T4A	E	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99
MBP	114X7046	W04	OP-MPJE093ML	MLZ042T5A	G	J	G7	6700	1.62	1	609	6.2	B3	825	1105	464	7/8"	1/2"	117	99

(1) **G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) **B** - R452A, R404A/R507, R448A, R449A;

J - R134a, R448A, R449A, R452A, R404A

Q - R452A, R404A/R507

Designation	LSQM026AJ	LSQM034AJ	LSQM014MP	LSQM018MP	LPQE048NT	LPQE048NT	LPQE068NT
Code Number	114X7085	114X7086	114X7106	114X7107	114X7255	114X7256	114X7257
Version	W05	W05	W05	W05	W12	W12	W12
Compressor Description	CAJ2446Z	CAJ2464Z	MPT14LA	MPT16LA	NTZ048-5B	NTZ048-4B	NTZ068-5B
Oil	RL32HA/HT	RL32HA/HT	POE32	POE32	120Z0638	120Z0638	120Z0638
Housing	B2	B2	B1	B1	B2	B2	B2
Spare Parts							
Compressor single pack	118U3992	118U3990	123B2126	123B2127	120F0228	120F0226	120F0232
Condenser	118U5218	118U5218	118U5217	118U5217	118U5218	118U5218	118U5218
Dual pressure switch	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766
Fan assembly	-	-	-	-	-	-	-
Fan blade	118U3481	118U3481	118U3480	118U3480	118U3766	118U3766	118U3766
Fan capacitor	118U3297	118U3297	118U3296	118U3296	-	-	-
Fan cowl/grill	118U3484	118U3484	118U3483	118U3483	118U3484	118U3484	118U3484
Fan motor	118U3823	118U3823	118U3477	118U3477	118U3765	118U3765	118U3765
Filter drier	023Z5041	023Z5041	023Z5040	023Z5040	023Z5041	023Z5041	023Z5041
Liquid valve	118U3761	118U3761	118U3414	118U3414	118U3761	118U3761	118U3761
Receiver	118U3475	118U3475	118U3474	118U3474	118U3475	118U3475	118U3475
Sight glass	014L0173	014L0173	014L0182	014L0182	014L0173	014L0173	014L0173
Suction valve	118U3761	118U3761	118U3414	118U3414	118U3764	118U3764	118U3764
Pressure relief valve	-	-	-	-	118U4096	118U4096	118U4096
Electrical Spare Parts							
Crankcase heater	120Z0057	120Z0057	118U0051	118U0051	120Z0459	120Z0459	120Z0459
Contact kit	118U3893	118U3894	118U3893	118U3893	118U3894	118U3893	118U3896
Circuit breaker	-	-	-	-	118U3873	118U3872	118U3869
Main switch kit	118U3872	118U3976	118U3975	118U3975			
Overload relay	118U3876	118U3877	118U3978	118U3978	118U3877	118U3875	118U3878
Run capacitor	118U5191*	118U5192*	123B9222	123B9219	8173041	-	8173041
Starting capacitor			123B9312	123B9316	8173001	-	8173001
Starting relay			123B9151	123B9151	8173022	-	8173022
Sequence phase relay	-	-	-	-	118U3882	118U3882	118U3882
Electrical Characteristics							
Wiring Diagram	WD2	WD2	WD7	WD7	WD4	WD6	WD4
LRA Compressor [A]	29	40	16	19	37	16	53
MCC Compressor [A]	7.9	10	5	4	11	4.8	17
Max cont.power [kW]	1.4	1.87	0.78	0.89	2.33	2.41	3.76
MCC Fan [A]	0.47	0.47	0.32	0.32	1.1	1.1	1.1
Fan Power [W]	1x68	1x68	1x25	1x25	135	135	135
Min Fuse rating gL/gG (A)	10	16	10	10	-	-	-
Accessories (Not Premounted)							
Acoustic hood	-	-	-	-	120Z0575	120Z0575	120Z0575
FSC Female connection	061H3140	061H3140	061H3140	061H3140	061H3144	061H3144	061H3144
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Fusible plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Sheet Metal							
Top panel	118U5146	118U5146	118U5141	118U5141	-	-	-
Fan panel	118U5147	118U5147	118U5142	118U5142	-	-	-
Back panel	118U5148	118U5148	118U5143	118U5143	-	-	-
Left side panel	118U5168	118U5168	118U5167	118U5167	-	-	-
Service panel	118U5149	118U5149	118U5144	118U5144	-	-	-

MCC - Max Continuous Current
LRA - Locked Rotor Amps
XGE - FSC, Fan Speed Controller

* - Spare part, Starting Kit

Designation	LPQE068NT	LPQE067LL	LPQE083LL	LPQE097LL
Code Number	114X7258	114X7259	114X7260	114X7261
Version	W12	W12	W12	W12
Compressor Description	NTZ068-4B	LLZ013T4A	LLZ015T4A	LLZ018T4A
Oil	120Z0638	120Z0648	120Z0648	120Z0648
Housing	B2	B3	B3	B3
Spare Parts				
Compressor single pack	120F0230	121L9535	121L9537	121L9539
Condenser	118U5218	118U5219	118U5219	118U5219
Dual pressure switch	060-539766	060-539766	060-539766	060-539766
Fan assembly	-	-	-	-
Fan blade	118U3766	118U3768	118U3768	118U3768
Fan capacitor	-	-	-	-
Fan cowl/grill	118U3484	118U3485	118U3485	118U3485
Fan motor	118U3765	118U3767	118U3767	118U3767
Filter drier	023Z5041	023Z5044	023Z5044	023Z5044
Liquid valve	118U3761	118U3761	118U3761	118U3761
Receiver	118U3475	118U3476	118U3476	118U3476
Sight glass	014L0173	014L0173	014L0173	014L0173
Suction valve	118U3764	118U3762	118U3762	118U3762
Pressure relief valve	118U4096	118U4096	118U4096	118U4096
Electrical Spare Parts				
Crankcase heater	120Z0459	120Z5040	120Z5040	120Z5040
Contact kit	118U3893	118U3896	118U3896	118U3896
Circuit breaker	118U3872	118U3873	118U3874	118U3874
Main switch kit	-	-	-	-
Overload relay	118U3876	118U3877	118U3878	118U3878
Run capacitor	-	-	-	-
Starting capacitor	-	-	-	-
Starting relay	-	-	-	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882
Electrical Characteristics				
Wiring Diagram	WD6	WD6	WD6	WD6
LRA Compressor [A]	25	62	88.5	90
MCC Compressor [A]	8.4	12	15	15
Max cont.power [kW]	3.7	5.03	5.94	6.65
MCC Fan [A]	1.1	2	2	2
Fan Power [W]	135	250	250	250
Min Fuse rating gL/gG (A)	-	-	-	-
Accessories (Not Premounted)				
Acoustic hood	120Z0575	120Z5052	120Z5052	120Z5052
FSC Female connection	061H3144	061H3144	061H3144	061H3144
Discharge Gas thermostat	7750009	7750009	7750009	7750009
Fusible plug	118U5170	118U5170	118U5170	118U5170
Sheet Metal				
Top panel	-	-	-	-
Fan panel	-	-	-	-
Back panel	-	-	-	-
Left side panel	-	-	-	-
Service panel	-	-	-	-

MCC - Max Continuous Current
LRA - Locked Rotor Amps
XGE - FSC, Fan Speed Controller

* - Spare part, Starting Kit

Designation	MPJE046ML	OMPJE057ML	MPJE068ML	MPJE080ML	MPJE093ML	MPJE034ML	MPJE034ML	MPJE046ML	MPJE046ML
Code Number	114X7040	114X7073	114X7042	114X7044	114X7046	114X7264	114X7265	114X7040	114X7250
Version	W04	W04	W04	W04	W04	W12	W12	W12	W12
Compressor Description	MLZ021T5	MLZ026T5	MLZ030T5	MLZ038T5	MLZ042T5	MLZ015T4A	MLZ015T5A	MLZ021T5A	MLZ021T4A
Oil	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0649	120Z0648	120Z0648
Housing	B2	B2	B3	B3	B3	B2	B3	B2	B2
Spare Parts									
Compressor single pack	121L8635	121L8639	121L8643	121L8647	121U8793	121L8629	121L8629	121L8635	121L8633
Condenser	118U5218	118U5218	118U5219	118U5219	118U5219	118U5218	118U5218	118U5218	118U5218
Dual pressure switch	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091
Fan assembly	-	-	-	-	-	-	-	-	-
Fan blade	118U3766	118U3766	118U3768	118U3768	118U3768	118U3766	118U3766	118U3766	118U3766
Fan capacitor	-	-	-	-	-	-	-	-	-
Fan cowl/grill	118U3484	118U3484	118U3485	118U3485	118U3485	118U3484	118U3484	118U3484	118U3484
Fan motor	118U3765	118U3765	118U3767	118U3767	118U3767	118U3765	118U3765	118U3765	118U3765
Filter drier	023Z5041	023Z5041	023Z5044	023Z5044	023Z5044	023Z5041	023Z5041	023Z5041	023Z5041
Liquid valve	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958
Receiver	118U4013	118U4013	118U4015	118U4015	118U4015	118U3475	118U3475	118U3475	118U3475
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve	118U4008	118U4008	118U3957	118U3957	118U3957	118U4008	118U4008	118U4008	118U4008
Pressure relief valve	-	-	-	-	-	118U4096	118U4096	118U4096	118U4096
Electrical Spare Parts									
Contactor kit	118U3867	118U3867	118U3895	118U3868	118U3868	118U3893	118U3893	118U3867	118U3894
Circuit breaker	118U3870	118U3870	118U3871	118U3871	118U3871	118U3872	118U3872	118U3870	118U3873
Overload relay	118U3880	118U3880	118U3880	118U3881	118U3881	118U3875	118U3875	118U3880	118U3876
Run capacitor	120Z0051	120Z0051	8173233	8173234	8173234	-	-	120Z0051	-
Starting capacitor	120Z0399	120Z0399	120Z0400	8173001	8173001	-	-	120Z0399	-
Starting relay	120Z0394	120Z0394	120Z0394	120Z0395	120Z0395	-	-	120Z0394	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Electrical Characteristics									
Wiring Diagram	WD4	WD4	WD5	WD5	WD5	WD6	WD6	WD4	WD6
LRA Compressor [A]	97	97	127	130	130	30	30	97	45
MCC Compressor [A]	25	26	32	38	40	7	7	25	9.5
Max cont.power [kW]	3.61	4.38	5.7	6.72	8.4	2.79	2.79	3.61	3.85
MCC Fan [A]	1.1	1.1	2	2	2	1.1	1.1	1.1	1.1
Fan Power [W]	135	135	250	250	250	135	135	135	135
Accessories (Not Premounted)									
Acoustic hood	120Z5043	120Z5043	120Z5044	120Z5044	120Z5044	120Z5043	120Z5043	120Z5043	120Z5043
FSC Female connection	061H3140	061H3140	061H3140	061H3140	061H3140	061H3144	061H3144	061H3144	061H3144
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Fusible plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U5170	118U5170	118U5170	118U5170
Sheet Metal									
Top panel	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5151
Fan panel	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5152
Back panel	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5153
Left side panel	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5169
Service panel	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5154

MCC - Max Continuous Current
LRA - Locked Rotor Amps
XGE - FSC, Fan Speed Controller

Designation	MPJE057ML	MPJE057ML	MPJE068ML	MPJE068ML	MPJE080ML	MPJE080ML	MPJE093ML	MPJE099ML	MPJE108ML
Code Number	114X7073	114X7262	114X7042	114X7251	114X7044	114X7252	114X7046	114X7253	114X7254
Version	W12	W12	W12	W12	W12	W12	W12	W12	W12
Compressor Description	MLZ026T5A	MLZ026T4A	MLZ030T5A	MLZ030T4A	MLZ038T5A	MLZ038T4A	MLZ042T5A	MLZ045T4A	MLZ048T4A
Oil	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648
Housing	B2	B2	B3	B3	B3	B3	B3	B3	B3
Spare Parts									
Compressor single pack	121L8639	121L8637	121L8643	121L8641	121L8647	121L8645	121U8793	121L8649	121L8651
Condenser	118U5218	118U5218	118U5219	118U5219	118U5219	118U5219	118U5219	118U5219	118U5219
Dual pressure switch	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091
Fan assembly	-	-	-	-	-	-	-	-	-
Fan blade	118U3766	118U3766	118U3768	118U3768	118U3768	118U3768	118U3768	118U3768	118U3768
Fan capacitor	-	-	-	-	-	-	-	-	-
Fan cowl/grill	118U3484	118U3484	118U3485	118U3485	118U3485	118U3485	118U3485	118U3485	118U3485
Fan motor	118U3765	118U3765	118U3767	118U3767	118U3767	118U3767	118U3767	118U3767	118U3767
Filter drier	023Z5041	023Z5041	023Z5044	023Z5044	023Z5044	023Z5044	023Z5044	023Z5044	023Z5044
Liquid valve	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958	118U3958
Receiver	118U3475	118U3475	118U3476	118U3476	118U3476	118U3476	118U3476	118U3476	118U3476
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve	118U4008	118U4008	118U3957	118U3957	118U3957	118U3957	118U3957	118U3957	118U3957
Pressure relief valve	118U4096	118U4096	118U4096	118U4096	118U4096	118U4096	118U4096	118U4096	118U4097
Electrical Spare Parts									
Contactor kit	118U3867	118U3894	118U3895	118U3896	118U3868	118U3896	118U3898	118U3896	118U3896
Circuit breaker	118U3870	118U3873	118U3871	118U3873	118U3871	118U3874	118U3899	118U3874	118U3874
Overload relay	118U3880	118U3876	118U3880	118U3877	118U3881	118U3878	118U3897	118U3878	118U3878
Run capacitor	120Z0051	-	8173233	-	8173234	-	8173234	-	-
Starting capacitor	120Z0399	-	120Z0400	-	8173001	118U3882	118U3882	118U3882	118U3882
Starting relay	120Z0394	-	120Z0394	-	120Z0395	-	8173001	-	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	-	120Z0395	-	-
Electrical Characteristics									
Wiring Diagram	WD4	WD6	WD5	WD6	WD5	WD6	WD5	WD6	WD6
LRA Compressor [A]	97	45	127	60	130	70	130	82	87
MCC Compressor [A]	26	10	32	13	38	15	40	15	16
Max cont.power [kW]	4.38	4.36	5.7	5.63	6.72	6.64	8.4	7.81	8.46
MCC Fan [A]	1.1	1.1	2	2	2	2	2	2	2
Fan Power [W]	135	135	250	250	250	250	250	250	250
Accessories (Not Premounted)									
Acoustic hood	120Z5043	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044
FSC Female connection	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Fusible plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Sheet Metal									
Top panel	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5146	118U5151
Fan panel	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5147	118U5152
Back panel	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5148	118U5153
Left side panel	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5168	118U5169
Service panel	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5149	118U5154

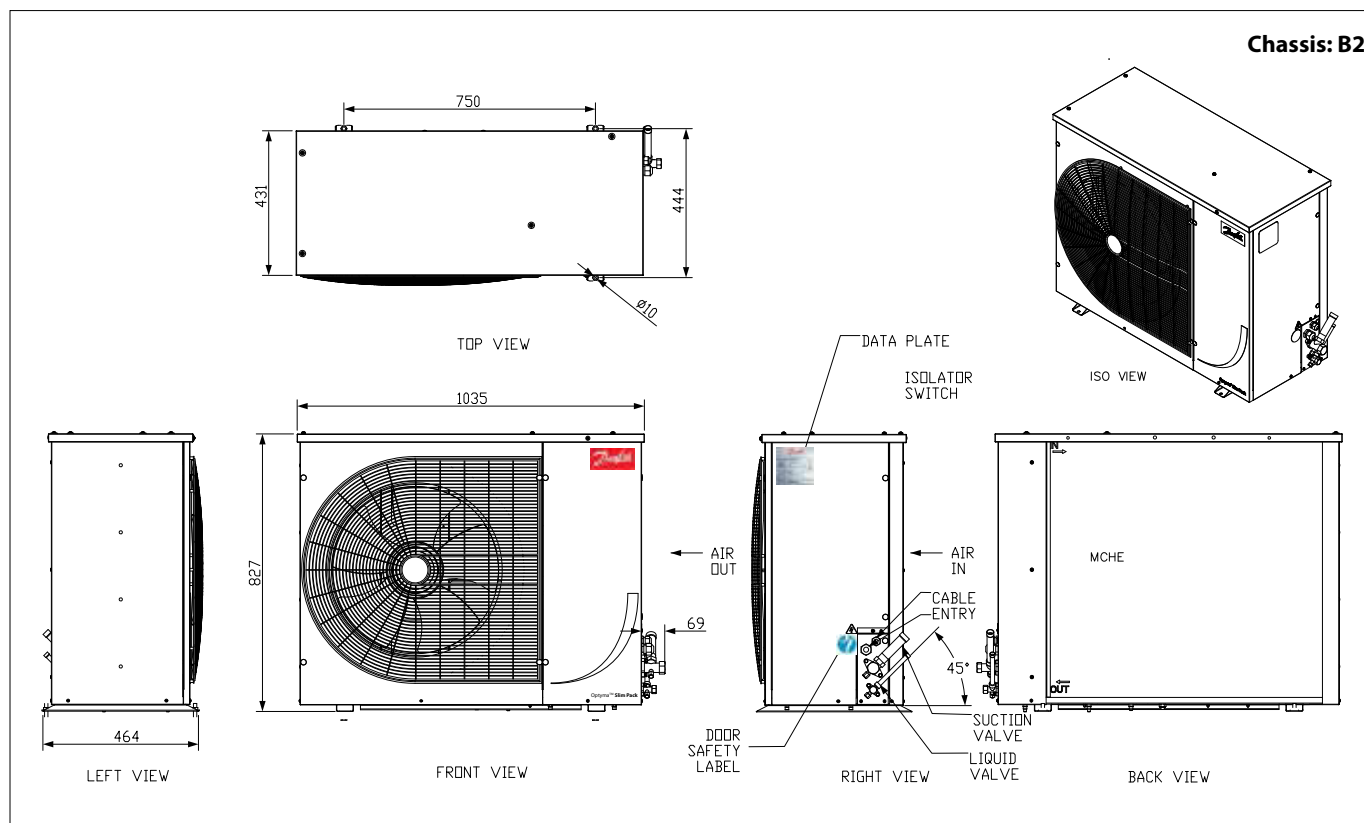
MCC - Max Continuous Current
LRA - Locked Rotor Amps
XGE - FSC, Fan Speed Controller

Component type	Component code	Component description	Additional informations
Acoustic Hood	120Z0575	ACOUSTIC HOOD COMP 1CYL	
Acoustic Hood	120Z5043	ACCOUSTIC HOOD - SMALL FRAME	
Acoustic Hood	120Z5044	Acoustic hood for Scroll MLZ compressor	
Acoustic Hood	120Z5045	ACCOUSTIC HOOD, LARGE FRAME	
Acoustic Hood	120Z5052	Sound Cover, LLZ013-018	
Capacitor	8173001	CAPACITOR 100µF 330V+R	
Capacitor	8173041	CAPACITOR 30µF 450V	
Capacitor	117U5017	START CAPACITOR 80 mfd	
Capacitor	117U5012	Start Capacitor 125 mF, 220V/50Hz	
Capacitor	120Z0400	CAPACITOR 161-193µF 330V	
Compressor Single Pack	118U3914	FH2511Z	
Compressor Single Pack	118U3915	TFH2511Z	
Compressor Single Pack	118U3988	CAJ9510Z - AJ2 range	
Compressor Single Pack	118U3989	TAJ4519Z - AJ2 range	
Compressor Single Pack	118U3990	CAJ2464Z - AJ2 range	
Compressor Single Pack	118U3991	TAJ4517Z - AJ2 range	
Compressor Single Pack	118U3992	CAJ2446Z - AJ2 range	
Compressor Single Pack	118U3993	CAJ4517Z - AJ2 range	
Compressor Single Pack	118U3994	CAJ4519Z - AJ2 range	
Compressor Single Pack	118U3995	CAJ9513Z - AJ2 range	
Compressor Single Pack	118U3996	CAJ4511Y - AJ2 range	
Compressor Single Pack	118U3997	CAJ4492Y - AJ2 range	
Compressor Single Pack	120F0226	NTZ048-4LR1B	
Compressor Single Pack	120F0228	NTZ048-5LR1B	
Compressor Single Pack	120F0230	NTZ068-4LR1B	
Compressor Single Pack	120F0232	NTZ068-5LR1B	
Compressor Single Pack	121L8629	MLZ015T4LP9A	
Compressor Single Pack	121L8631	MLZ015T5LP9A	
Compressor Single Pack	121U8731	MLZ019T5LT9A COMPRESSOR	
Compressor Single Pack	120U8725	MLZ019T4LP9A COMPRESSOR	
Compressor Single Pack	121L8633	MLZ021T4LP9A	
Compressor Single Pack	121L8635	MLZ021T5LP9A	
Compressor Single Pack	121L8637	MLZ026T4LP9A	
Compressor Single Pack	121L8639	MLZ026T5LP9A	
Compressor Single Pack	121L8641	MLZ030T4LC9A	
Compressor Single Pack	121L8643	MLZ030T5LC9A	
Compressor Single Pack	121L8645	MLZ038T4LC9A	
Compressor Single Pack	121L8647	MLZ038T5LC9A	
Compressor Single Pack	121L8649	MLZ045T4LC9A	
Compressor Single Pack	121L8651	MLZ048T4LC9A	
Compressor Single Pack	121L9535	LLZ013T4LQ9A	
Compressor Single Pack	121L9537	LLZ015T4LQ9A	
Compressor Single Pack	121L9539	LLZ018T4LQ9A	
Compressor Single Pack	123B2126	MPT14LA	
Compressor Single Pack	123B2127	MPT16LA	
Compressor Single Pack	123B2514	MLY90RAb	
Compressor Single Pack	123B2518	MPT12RA	
Compressor Single Pack	123B2704	MPT14RA	
Compressor Single Pack	195B0050	SC12G	
Compressor Single Pack	195B0053	SC15G	
Compressor Single Pack	195B0059	SC18G	
Compressor Single Pack	195B0636	SC21G	
Condenser	118U3492	Spare part, A7 MCHX	Phased out & replaced by 118U5217 from SN: -096147CG0419
Condenser	118U3493	Spare part, D7 MCHX	Phased out & replaced by 118U5218 from SN: -096147CG0419
Condenser	118U3494	Spare part, G7 MCHX	Phased out & replaced by 118U5219 from SN: -096147CG0419
Contact kit	118U3867	KIT CONT,LC1E2501M6	
Contact kit	118U3868	KIT CONT,LC1E3801M6	
Contact kit	118U3893	KIT CONT,LC1E0901M5	
Contact kit	118U3894	KIT CONT,LC1E1201M5	
Contact kit	118U3895	KIT CONT,LC1E3201M5	
Contact kit	118U3896	KIT CONT,LC1E1801M5	
Crankcase heater	120Z0057	Belt type, 50 W, 230 V, CE mark, UL	
Crankcase heater	120Z0459	PTC heater 27 W, CE mark, UL	
Crankcase heater	120Z5040	Belt type, 70 W, 240 V, CE mark, UL	

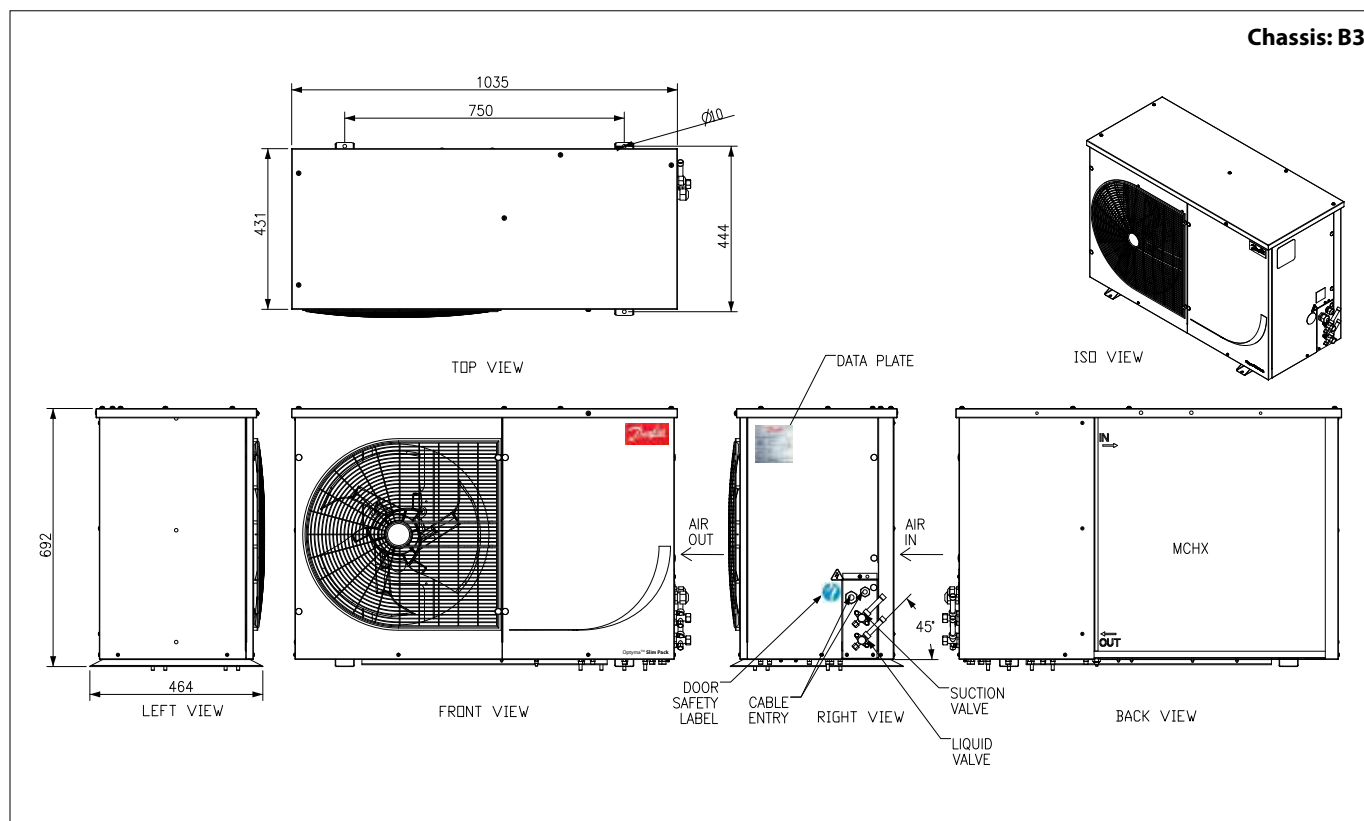
Component type	Component code	Component description	Additional informations
Crankcase heater	118U0051	CRANKCASE HEATER 55W	
Door Handle	118U3858	HANDLE, ABB-OHB2AJM,MSMN,OX55X131	
Dual pressure switch	060-539766	KP17WB Pressure Switch M/24	
Fan assembly	118U3829	FAN ASSEMBLIES, EBM, ERP2015	
Fan blade	118U3480	FAN BLADE 14"	
Fan blade	118U3481	FAN BLADE 18"	
Fan capacitor	118U3296	CAPACITOR 1,8 µF	
Fan capacitor	118U3297	25PACITOR 3,5 µF	
Fan cowl/grill	118U3483	FAN GRILL HOUSING Ø356 mm	
Fan cowl/grill	118U3484	FAN GRILL HOUSING Ø457 mm	
Fan cowl/grill	118U3485	FAN GRILL HOUSING Ø609 mm	
Fan motor (Capacitor not included)	118U3477	FAN MOTOR 25W	
Fan motor (Capacitor not included)	118U3823	FAN MOTOR 68W	
Fan speed control Female connection	061H3140	XGE-4C	
Fan speed control Female connection	061H3144	XGE-2C	
Filter drier	023Z5040	DML083	
Filter drier	023Z5041	DML084	
Filter drier	023Z5044	DML164	
Isolator switch	118U5117	SPARE PART, ISOLATOR SWITCH SHAFT ASSLY B1/B2	
Isolator switch	118U5120	SPARE PART, ISOLATOR SWITCH SHAFT ASSLY B3 3PH	
Isolator switch	118U5119	SPARE PART, ISOLATOR SWITCH SHAFT ASSLY B3 1PH	
Left Side Panel B1	118U5167	SPARE PART, SHEET METAL LEFT SIDE B1	
Left Side Panel B2	118U5168	SPARE PART, SHEET METAL LEFT SIDE B2	
Left Side Panel B3	118U5169	SPARE PART, SHEET METAL LEFT SIDE B3	
Liquid valve	118U3414	Brazed Service Valve 3/8"	
Liquid valve	118U3761	Brazed Service Valve 1/2"	
Main switch kit	118U3869	C60H2P25AC	
Main switch kit	118U3870	C60H2P32AC	
Main switch kit	118U3871	C60H2P40AC	
Main switch kit	118U3872	C60H4P10AC	
Main switch kit	118U3873	C60H4P16AC	
Main switch kit	118U3874	C60H4P20AC	
Main switch kit	118U3975	KIT CIRCUITBREAKER,C60H2P10A	
Main switch kit	118U3976	KIT CIRCUITBREAKER,C60H2P16A	
Main switch kit	118U3980	KIT CIRCUITBREAKER, -A9N2P06C	
Main switch kit	118U3851	KIT MPCB, ABB-MS116-10+HK1-20	
Main switch kit	118U3852	KIT MPCB, ABB-MS116-16+HK1-20	
Main switch kit	118U3853	KIT MPCB, ABB-MS116-6.3+HK1-20	
Main switch kit	118U3854	KIT MPCB, ABB-MS132-20+HK1-20	
Main switch kit	118U3855	KIT MPCB, ABB-MS132-25+HK1-20	
Main switch kit	118U3856	KIT MPCB, ABB-MS132-32+HK1-20	
Main switch kit	118U3857	KIT MPCB, ABB-MS450-40+HKS4-20	
Main switch kit	118U5162	SPARE PART, KIT MPCB MS116-4.0 2.5-4A	
Oil	-	POE32 for Light Commercial (MLY / MPT)	
Oil	-	RL32HA/HT for light Commercial (CAJ/FH/TAJ/TFH)	
Oil	120Z0638	1 litre can of 175PZ - POE (NTZ Platform)	CU with a SN above 051220CG3016
Oil	120Z0648	1 litre can of 215PZ - POE46 (MLZ & LLZ Platform)	CU with a SN above 051220CG3016
Overload relay	118U3875	KIT OL-RELAY, -LRE12+LAEB2	
Overload relay	118U3876	KIT OL-RELAY, -LRE14+LAEB2	
Overload relay	118U3877	KIT OL-RELAY, -LRE16+LAEB2	
Overload relay	118U3878	KIT OL-RELAY, -LRE21+LAEB2	
Overload relay	118U3879	KIT OL-RELAY, -LRE22+LAEB2	
Overload relay	118U3880	KIT OL-RELAY, -LRE32+LAEB2	
Overload relay	118U3881	KIT OL-RELAY, -LRE35+LAEB2	
Overload relay	118U3978	KIT OL-RELAY, -LRE1	
Pressure relief Valve	118U4096	SPARE PART, PRV B 33755	
Receiver	118U3474	LIQUID RECEIVER 1,3 L	
Receiver	118U3475	LIQUID RECEIVER 3,4 L	
Receiver	118U3476	LIQUID RECEIVER 6,2 L	
Relay	8173022	STARTING RELAY TYPE RVA6AMKL	
Relay	117U6013	STARTING RELAY	
Relay	117U6019	Starting Relay SC 50/60 Hz	
Relay	117U6011	STARTING RELAY SC 220V/60Hz	
Relay	117-7027	SC-RELAY	
Relay	117U6003	STARTING RELAY TL/SC 115V/50/60Hz	
Relay	117U6005	STARTING RELAY SC 220V/50Hz	

Component type	Component code	Component description	Additional informations
Relay	117-7029	SC-RELAY	
Relay	123B9151	RELAY + CON. BOARD 1158-8 BDG 158S+ NTC	
Relay	123B9133	RELAY + CON. BOARD 1149-8 BDG 149S+ NTC	
Relay	123B9139	RELAY + CON. BOARD 1166-8 BDG 166S+ NTC	
Run capacitor	8173231	Run capacitor 440V, 40 µF	
Run capacitor	8173233	Run capacitor 440V,50 µF	
Run capacitor	8173234	Run capacitor 440V,55 µF	
Run capacitor	120Z0051	Run capacitor 70 µF	
Run capacitor	123B9222	RUN CAPACITOR 10µF/420V, REF. 326	
Run capacitor	123B9219	RUN CAPACITOR 16µF/420V, REF. 321	
Run capacitor	123B9226	RUN CAPACITOR 25µF/420V, REF. 310 MET.	
Sequence phase relay	118U3882	SM500-MG73BF	
Sight glass	014L0173	SGP 12 N	
Sight glass	014L0182	SGP 10s N	
Start capacitor	123B9316	STARTING CAPACITOR+CC 72-88µF/330V R216	
Start capacitor	123B9315	STARTING CAPACITOR+CC 64-77µF/330V R205	
Start capacitor	117U5373	START CAPACITOR 80 mfd	
Start capacitor	120Z0399	Start capacitor 145-175 F	
Start relay	120Z0393	Starting relay RVA9CKL	
Start relay	120Z0394	Starting relay RVA3EKL	
Start relay	120Z0395	Starting relay RVA4GKL	
Starting KIT	118U5191	CAJ2446Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5192	CAJ2464Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5193	CAJ4492Y _ F1 KIT Capacitor and relay	
Starting KIT	118U5194	CAJ4511Y _ F1KIT Capacitor and relay	
Starting KIT	118U5195	CAJ4517Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5196	CAJ4519Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5197	CAJ9510Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5198	CAJ9513Z _ F1KIT Capacitor and relay	
Starting KIT	118U5199	FH2511Z _ F1KIT Capacitor and relay	
Suction valve	118U3761	SPARE PART - BRAZED SERVICE VALVE 1/2"	
Suction valve	118U3414	SPARE PART - BRAZED SERVICE VALVE 3/8"	
Suction valve	118U3762	SPARE PART VALVE- BRAZE SERVICE VALVE 3/4"	
Suction valve	118U3763	SPARE PART-BRAZE SERVICE VALVE 7/8"	
Suction valve	118U3764	SPARE PART-BRAZE SERVICE VALVE 5/8"	
Back Panel B1	118U5143	SPARE PART, SHEET METAL BACK B1	
Back Panel B2	118U5148	SPARE PART, SHEET METAL BACK B2	
Back Panel B3	118U5153	SPARE PART, SHEET METAL BACK B3	
Fan panel B1	118U5142	SPARE PART, SHEET METAL FAN B1	
Fan panel B2	118U5147	SPARE PART, SHEET METAL FAN B2	
Fan panel B3	118U5152	SPARE PART, SHEET METAL FAN B3	
Service panel W05 B1	118U5144	SPARE PART, SHEET METAL SERVICE PANEL B1	
Service panel W05 B2	118U5149	SPARE PART, SHEET METAL SERVICE PANEL B2	
Service panel W05 B3	118U5154	SPARE PART, SHEET METAL SERVICE PANEL B3	
Service panel W09 B1	118U5156	SPARE PART, SHEET METAL SERVICE PANEL B1- W09	
Service panel W09 B2	118U5157	SPARE PART, SHEET METAL SERVICE PANEL B2 -W09	
Service panel W09 B3	118U5158	SPARE PART, SHEET METAL SERVICE PANEL B3 -W09	
Top Panel B1	118U5141	SPARE PART, SHEET METAL TOP B1	
Top Panel B2	118U5146	SPARE PART, SHEET METAL TOP B2	
Top Panel B3	118U5151	SPARE PART, SHEET METAL TOP B3	

OP-LPQE048 - 068, OP-MPJE034 - 046 - 057



OP-LPQE067 - 084 - 098, OP-MPJE068 - 080 - 093 - 099 - 108



Dimensions are in (mm)



For electrical wiring diagrams refer to installation guide AN23308644013405-xxxxxx

Notas:

Optyma™ Plus

Equipped for **quietness** and **top performance**

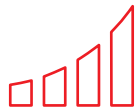
The same robust quality with added technology and smarter design. That's a seriously cool combination.

50%
less installation time.
A fast fit that lets you
keep up the tempo



Quick and safe installation and service

It is another step forward in plug and play. It will not just save you valuable time in installation, set up and service, it will also reduce your customers' bill.



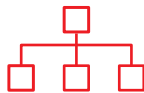
High SEPR*

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.



The best sound performance in the market

Due to its long-life compressor, acoustic insulation, component design as well as intelligent fan speed reduction during low capacity operation.



Connectivity

Contributes to considerable energy savings, making the Optyma™ Plus up to 20% more economical than an equivalent product.



High efficiency to the top

In-field stacking cuts costs

With its unique load-bearing design, it's possible to stack units in the field. This cuts installation time, and saves on carpentry and brackets to reduce cost.

Compact cabinet speeds installation

New compact design makes it easier to maneuver when fitting in tight spaces, saving installation time.

New MCHE alloy coils

New upgraded alloy with 1000 hours salt spray test



Accessibility to speed up service

Easier and quicker accessibility to all components with new double door design – saves time during servicing, maintenance and repair.

Intelligent technology speeds start-up and enhances reliability

Preset parameters make it easier to get it right from the start. Fewer mistakes reduce the risk of damage and save time and money on repairs.

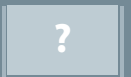
P06: Scroll compressor with Liquid injection management and pressure release valve for safety and reliability of installation using high glide refrigerants

High SEPR/COP cuts energy costs

E.g. in a cold room where frozen food is stored and with 4.2 kW of cooling capacity.

Optyma™ Plus LBP unit vs equivalent unit in the market*

Cooling cap.:
4.2 kW
Refrigerant:
R452A



UNIT	Danfoss	Market
COP	1.08	0.97
USAGE	~ 25 820 kWh	~ 30 012 kWh

Annual energy consumption saved: 4192 kWh

Savings based on cost of energy:

2.12 ZAR / 1KWH = 4192 × 2.12 = 8887 ZAR

8887 ZAR

annual electricity savings made by your customer
in South Africa

* Source: Danfoss

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)		Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							COP			
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C				
OP-LPQM215LL	114X3403	P06	LLZ024T4A	E	27	4.037	5.131	6.446	7.997	9.796	11.85	-		78	47	
					32	3.713	4.731	5.946	7.374	9.028	10.92	-	1.25			
					38	3.307	4.227	5.318	6.595	8.073	9.764	-				
					43	2.95	3.786	4.769	5.917	7.245	8.766	-				
OP-LPQM271LL	114X3404	P06	LLZ034T4A	E	27	5.480	6.882	8.537	10.46	12.66	15.14	-		78	47	
					32	5.001	6.300	7.819	9.573	11.57	13.83	-	1.24			
					38	4.38	5.554	6.906	8.455	10.22	12.21	-				
					43	3.816	4.882	6.093	7.471	9.033	10.79	-				

LBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew point) -35°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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)	Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							Q [kW]		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C			
OP-LPQM215LL	114X3403	P06	LLZ024T4A	E	27	4.037	5.131	6.446	7.997	9.796	11.850	-	1.25	78	47
					32	3.713	4.731	5.946	7.374	9.028	10.920	-			
					38	3.307	4.227	5.318	6.595	8.073	9.764	-			
					43	2.950	3.786	4.769	5.917	7.245	8.766	-			
OP-LPQM271LL	114X3404	P06	LLZ034T4A	E	27	5.480	6.882	8.537	10.460	12.660	15.140	-	1.24	78	47
					32	5.001	6.300	7.819	9.573	11.570	13.830	-			
					38	4.380	5.554	6.906	8.455	10.220	8.729	-			
					43	3.816	4.882	6.093	7.471	9.033	10.790	-			

LBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew point) -35°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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)	
						Te [°C]							Q [kW]	Sound power level dB(A)
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C		
OP-MPXM125ML	114X4403	P06	MLZ058T4	E	27	6.778	8.475	10.420	12.630	15.110	17.860	20.910	2.23	77
					32	6.346	7.978	9.843	11.960	14.330	16.960	19.870		
					38	5.815	7.364	9.130	11.130	13.360	15.850	18.600		
					43	5.363	6.841	8.519	10.410	12.540	14.900	17.520		
OP-MPXM162ML	114X4404	P06	MLZ076T4	E	27	8.698	10.880	13.390	16.230	19.420	22.940	26.820	2.25	77
					32	8.169	10.250	12.640	15.350	18.400	21.780	25.510		
					38	7.544	9.476	11.710	14.260	17.140	20.340	23.870		
					43	7.035	8.834	10.930	13.330	16.050	19.090	22.450		

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)	Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							COP		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C			
OP-MPXM125ML	114X3403	P06	LLZ024T4A	E	27	9.535	11.72	14.15	13.08	19.93	23.3	-		77	46
					32	8.832	10.88	13.15	15.76	18.6	21.78	-	2.26		
					38	7.956	9.827	11.91	14.3	16.92	19.87	-			
					43	-	8.918	10.83	13.04	15.46	18.21	-			
OP-MPXM162ML	114X3404	P06	LLZ034T4A	E	27	11.59	14.43	17.59	21.22	25.16	29.57	-		77	46
					32	10.6	13.27	16.25	19.67	23.4	27.59	-	2.06		
					38	9.378	11.82	14.55	17.71	21.18	25.08	-			
					43	-	10.57	13.08	16.01	19.23	22.89	-			

LBP

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (mid point) -35°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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)	Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							COP		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C			
OP-MPXM125ML	114X3403	P06	LLZ024T4A	E	27	9.433	11.610	14.070	16.780	19.850	23.150	-	2.250	77	46
					32	8.732	10.770	13.080	15.620	18.510	21.620	-			
					38	7.859	9.719	11.830	14.170	16.830	19.710	-			
					43	-	8.811	10.750	12.900	15.370	18.060	-			
OP-MPXM162ML	114X3404	P06	LLZ034T4A	E	27	11.470	14.290	17.490	21.030	25.040	29.350	-	2.040	77	46
					32	10.480	13.130	16.140	19.480	23.280	27.370	-			
					38	9.256	11.690	14.450	17.530	21.050	24.870	-			
					43	-	10.430	12.980	15.820	19.100	22.670	-			

LBP

(1) **G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew point) -35°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)	Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							COP		
-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C									
OP-MPXM125ML	114X4403	P06	MLZ058T4	E	27	9.689	11.92	14.4	17.23	20.3	23.74	-			
					32	8.879	10.95	13.25	15.89	18.75	21.97	-	2.24	77	46
					38	7.865	9.733	11.81	14.2	16.81	19.76	-			
					43	6.988	8.673	10.55	12.73	-	-	-			
OP-MPXM162ML	114X4404	P06	MLZ076T4	E	27	11.77	14.55	17.62	21.08	24.79	28.88	-			
					32	10.71	13.29	16.17	19.42	22.92	26.78	-	2.00	77	46
					38	9.375	11.7	14.31	17.29	20.53	24.1	-			
					43	8.215	10.33	12.66	15.4	-	-	-			

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Model	Code	Version	Compressor	Electrical code (1)	Tamb [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)		Sound power level dB(A)	Sound pressure level 10 m dB(A)
						Te [°C]							Q [kW]			
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C				
OP-MPXM125ML	114X4403	P06	MLZ058T4	E	27	9.491	11.670	14.100	16.810	19.790	23.020	-				
					32	8.590	10.640	12.920	15.430	18.230	21.270	-	2.19	77	46	
					38	7.456	9.336	11.420	13.720	16.270	19.070	-				
					43	6.479	8.198	10.110	12.230	14.570	17.140	-				
OP-MPXM162ML	114X4404	P06	MLZ076T4	E	27	12.610	15.120	17.840	20.810	24.060	23.020	-				
					32	11.490	13.710	16.130	18.790	21.710	24.930	-	2.00	77	46	
					38	10.100	11.960	13.990	16.250	18.770	21.580	-				
					43	8.938	10.460	12.150	14.060	16.220	18.680	-				

MBP
(1) G - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz

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

(2) Q [kW], Cooling Capacity

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

(3) Rated conditions (EN13215), Evaporating temperature (dew 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

Application	Code number	Model number	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
							(m²/h)	(dm³)					(L)	mm	mm	mm	inch		
LBP	114X3403	OP-LPQM215LLP06E	LLZ024T4A	E	Q	J7	9500	1.97	2	500	10	H4	966	650	1835	1 1/8"	3/4"	212	161
LBP	114X3404	OP-LPQM271LLP06E	LLZ034T4A	E	Q	J7	9500	1.97	2	500	10	H4	966	650	1835	1 1/8"	3/4"	217	166
MBP	114X4403	OP-MPXM125MLP06E	MLZ058T4	E	X	J7	9,500	1.97	2	500	10	H4	966	1835	650	1 1/8"	3/4"	218	169
MBP	114X4404	OP-MPXM162MLP06E	MLZ076T4	E	X	J7	9,500	1.97	2	500	10	H4	966	1835	650	1 1/8"	3/4"	218	169

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

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

(2) Q - R452A, R404A/R507

X - R404A/R507, R134a, R448A, R449A, R452A

Designation	OP-LPQM215LL	OP-LPQM271LL
Code Number	114X3403	114X3404
Compressor Description	LLZ024T4A	LLZ034T4A
Oil	120Z0648	120Z0648
Housing	H4	H4
Spare Parts		
Compressor single pack	121L9541	121L9543
Condenser	118U5220	118U5220
Discharge pressure sensor	118U3722	118U3722
Fan assembly	118U3829	118U3829
Fan blade	-	-
Fan capacitor	-	-
Fan cowl/grill	118U3485	118U3485
Fan motor	-	-
Filter drier	023Z5046	023Z5046
High-pressure switch	118U3718	118U3718
Liquid valve	009G7054	009G7054
Low-pressure switch	118U3720	118U3720
Receiver	118U3926	118U3926
Sight glass	014L0175	014L0175
Suction pressure sensor	118U3721	118U3721
Suction valve	009G7056	009G7056
Electric expansion valve	034G5015	034G5015
Electric expansion valve coil	034G5185	034G5185
Liquid injection controller (Module B plus)	118U4010	118U4010
Pressure relief valve	118U4096	118U4096
Electrical Spare Parts		
Crankcase heater	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003
Contact kit	118U3848	118U3849
Door handle	118U3858	118U3858
Main switch kit	118U3855	118U3856
Run capacitor	-	-
Starting capacitor	-	-
Starting relay	-	-
Electrical Characteristics		
Wiring Diagram	WD9	WD8
LRA Compressor [A]	95	150
MCC Compressor [A]	21	26
Max cont.power [kW]	8	11.2
MCC Fan [A]	2x0.97	2x0.97
Fan Power [W]	2x190	2x190
Min Fuse rating gL/gG (A)	32	40
Accessories (Not Premounted)		
Acoustic hood	120Z5053	120Z5053
Fusible Plug	118U5170	118U5170
Adap-Kool Accessories		
External Display & settings	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579
Programming Key	084B8582	084B8582
Sheet Metal		
Top Panel	118U5136	118U5136
Fan Panel	-	-
Back Panel	118U5139	118U5139
Front Panel	-	-
Access Panel	118U5140	118U5140
Left side Panel	-	-
Fan Panel (LH)	-	-
Fan Panel (RH)	-	-

MCA - Minimum Circuit Ampacity

MCC - Max Continuous Current

LRA - Locked Rotor Amps

* - Spare part, Starting Kit

Designation	MPXM125ML	MPXM162ML
Code Number	114X4403	114X4404
Compressor Description	MLZ058T4	MLZ076T4
Oil	215PZ-POE46	215PZ-POE46
Housing	H4	H4
Spare Parts		
Compressor single pack	121L8653	121L8655
Condenser	118U5220	118U5220
Discharge pressure sensor	118U3722	118U3722
Fan assembly	118U3829	118U3829
Fan blade	-	-
Fan capacitor	-	-
Fan cowl/grill	118U3485	118U3485
Fan motor	-	-
Filter drier	023Z5046	023Z5046
High-pressure switch	118U3718	118U3718
Liquid valve	009G7054	009G7054
Low-pressure switch	118U3720	118U3720
Receiver	118U3926	118U3926
Sight glass	014L0175	014L0175
Suction pressure sensor	118U3721	118U3721
Suction valve	009G7056	009G7056
Pressure relief valve	118U4096	118U4096
Electrical Spare Parts		
Crankcase heater	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003
Contact kit	118U3847	118U3848
Door handle	118U3858	118U3858
Main switch kit	118U3855	118U3856
Run capacitor	-	-
Starting capacitor	-	-
Starting relay	-	-
Electrical Characteristics		
Wiring Diagram	WD6	WD6
LRA Compressor [A]	95	140
MCC Compressor [A]	20	25
Max cont.power [kW]	9.39	11.41
MCC Fan [A]	2x0.97	2x0.97
Fan Power [W]	1x130	1x130
Min Fuse rating gL/gG (A)	32	40
Accessories (Not Premounted)		
Acoustic hood	120Z5045	120Z5045
Fusible Plug	118U5170	118U5170
Adap-Kool Accessories		
External Display & settings	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579
Programming Key	084B8582	084B8582
Sheet Metal		
Top Panel	118U5136	118U5136
Fan Panel	-	-
Back Panel	118U5139	118U5139
Front Panel	-	-
Access Panel	118U5140	118U5140
Left side Panel	118U5166	118U5166
Fan Panel (LH)	118U5137	118U5137
Fan Panel (RH)	118U5138	118U5138

MCA - Minimum Circuit Ampacity

MCC - Max Continuous Current

LRA - Locked Rotor Amps

* - Spare part, Starting Kit

Catalogue

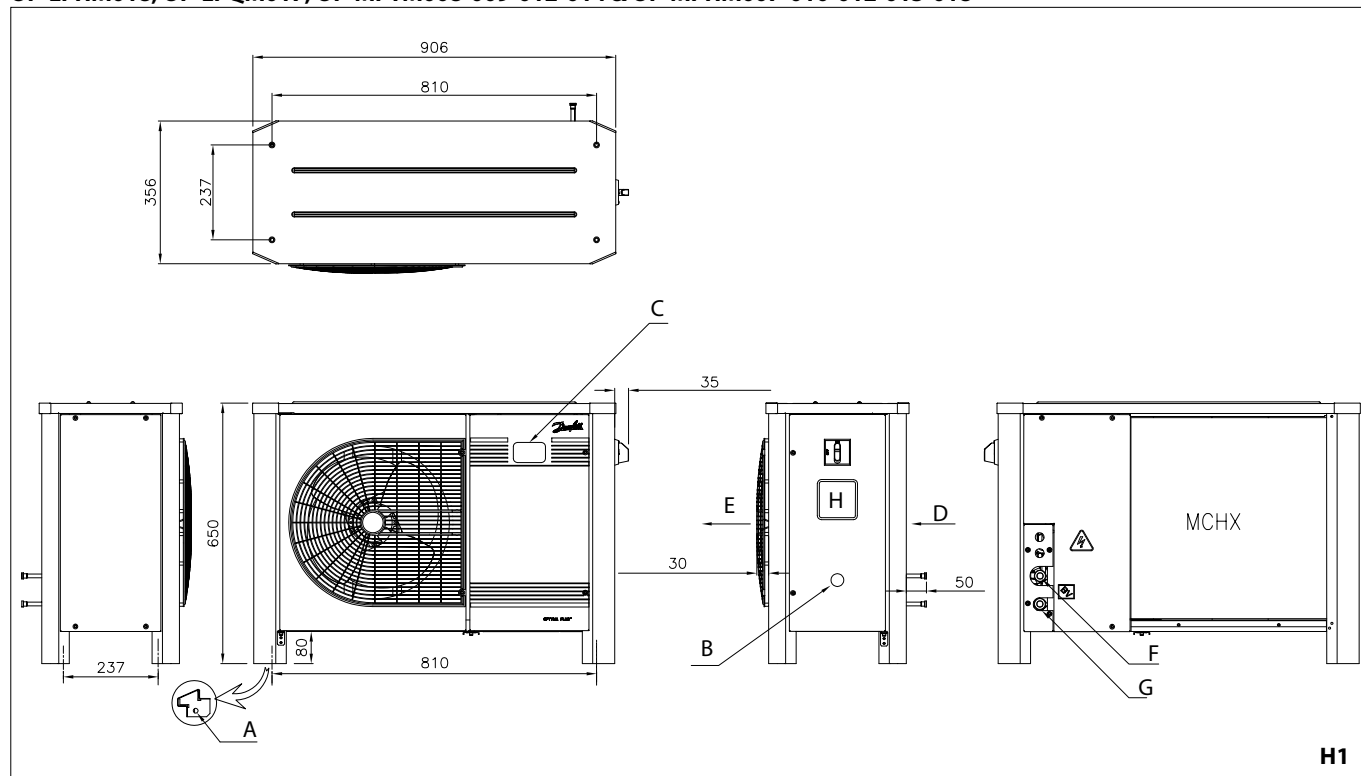
Optyma™ Plus - Spare parts & accessories list

Component type	Component code	Component description	Additional informations
Acoustic Hood	120Z0575	ACOUSTIC HOOD COMP 1CYL	
Acoustic Hood	120Z5043	ACCOUSTIC HOOD - SMALL FRAME	
Acoustic Hood	120Z5044	Acoustic hood for Scroll MLZ compressor	
Acoustic Hood	120Z5045	ACCOUSTIC HOOD, LARGE FRAME	
Acoustic Hood	120Z5052	Sound Cover, LLZ013-018	
Cable for EKA Displays 6 m	084B7299	EKA Accessory	
Capacitor	8173001	CAPACITOR 100µF 330V+R	
Capacitor	8173041	CAPACITOR 30µF 450V	
Compressor Single Pack	118U3914	FH2511Z	
Compressor Single Pack	118U3915	TFH2511Z	
Compressor Single Pack	118U3988	CAJ9510Z - AJ2 range	
Compressor Single Pack	118U3989	TAJ4519Z - AJ2 range	
Compressor Single Pack	118U3991	TAJ4517Z - AJ2 range	
Compressor Single Pack	118U3992	CAJ2446Z - AJ2 range	
Compressor Single Pack	118U3993	CAJ4517Z - AJ2 range	
Compressor Single Pack	118U3994	CAJ4519Z - AJ2 range	
Compressor Single Pack	118U3995	CAJ9513Z - AJ2 range	
Compressor Single Pack	118U3996	CAJ4511Y - AJ2 range	
Compressor Single Pack	120F0226	NTZ048-4LR1B	
Compressor Single Pack	120F0228	NTZ048-5LR1B	
Compressor Single Pack	120F0230	NTZ068-4LR1B	
Compressor Single Pack	120F0232	NTZ068-5LR1B	
Compressor Single Pack	120F0234	NTZ096A4LR1B	
Compressor Single Pack	120F0236	NTZ136A4LR1B	
Compressor Single Pack	121L8629	MLZ015T4LP9A	
Compressor Single Pack	121L8631	MLZ015T5LP9A	
Compressor Single Pack	121L8633	MLZ021T4LP9A	
Compressor Single Pack	121L8635	MLZ021T5LP9A	
Compressor Single Pack	121L8637	MLZ026T4LP9A	
Compressor Single Pack	121L8639	MLZ026T5LP9A	
Compressor Single Pack	121L8641	MLZ030T4LC9A	
Compressor Single Pack	121L8643	MLZ030T5LC9A	
Compressor Single Pack	121L8645	MLZ038T4LC9A	
Compressor Single Pack	121L8647	MLZ038T5LC9A	
Compressor Single Pack	121L8651	MLZ048T4LC9A	
Compressor Single Pack	121L8653	MLZ058T4LC9A	
Compressor Single Pack	121L8655	MLZ076T4LC9A	
Compressor Single Pack	121L9541	LLZ024T4LQ9A	
Compressor Single Pack	121L9543	LLZ034T4LQ9A	
Compressor Single Pack	123B2127	MPT16LA	
Compressor Single Pack	123B2510	MLY80RAb	
Compressor Single Pack	123B2514	MLY90RAb	
Compressor Single Pack	123B2518	MPT12RA	
Compressor Single Pack	123B2704	MPT14RA	
Compressor Single Pack	195B0323	SC12MLX	CU phased out but spare part still available
Compressor Single Pack	195B0332	SC18CLX.2	CU phased out but spare part still available
Compressor Single Pack	195B0345	SC10MLX	CU phased out but spare part still available
Compressor Single Pack	195B0391	SC15MLX	CU phased out but spare part still available
Compressor Single Pack	195B0427	GS26CLX	CU phased out but spare part still available
Compressor Single Pack	195B0435	GS34MFX	CU phased out but spare part still available
Compressor Single Pack	195B0438	GS34MLX	CU phased out but spare part still available
Compressor Single Pack	195B0443	NF7MLX	CU phased out but spare part still available
Compressor Single Pack	195B0624	SC18MLX	CU phased out but spare part still available
Condenser	118U3492	Spare part, A7 MCHX	Phased out & replaced by 118U5217 from SN: -096147CG0419
Condenser	118U3493	Spare part, D7 MCHX	Phased out & replaced by 118U5218 from SN: -096147CG0419
Condenser	118U3494	Spare part, G7 MCHX	Phased out & replaced by 118U5219 from SN: -096147CG0419
Condenser	118U3717	Spare part, J7 MCHX	Phased out & replaced by 118U5220 from SN: -096147CG0420
Contact kit	118U3845	A 9-30-01-80, DILM07-01, DILM09-01	
Contact kit	118U3846	A12-30-01-80, DILM12-01	
Contact kit	118U3847	A 16-30-01-80, DILM15-01	
Contact kit	118U3848	A 26-30-01-80, DILM17-01	
Contact kit	118U3849	A 30-30-01-80, DILM25-01	
Contact kit	118U3850	A 50-30-00-80, DILM32-01	

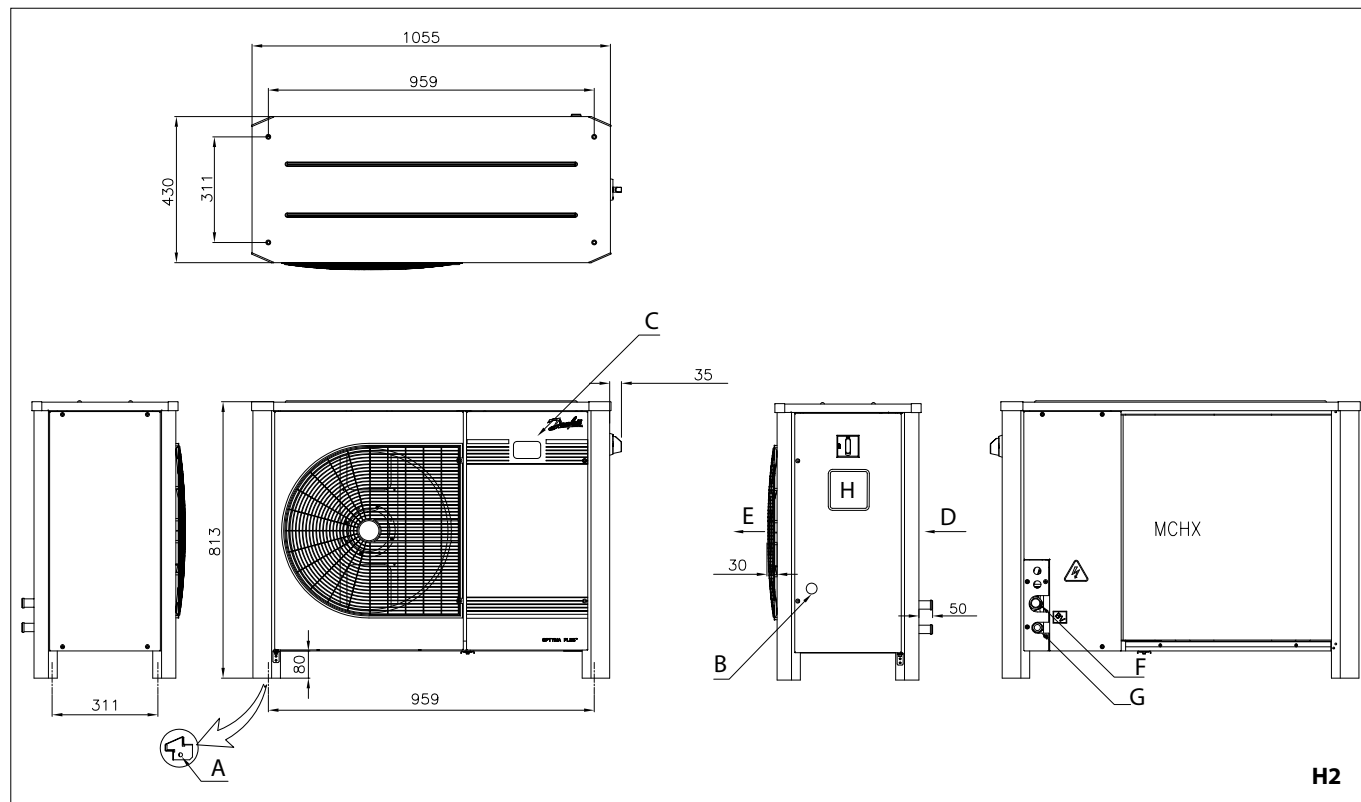
Component type	Component code	Component description	Additional informations
Crankcase heater	120Z0057	Belt type, 50 W, 230 V, CE mark, UL	
Crankcase heater	120Z0459	PTC heater 27 W, CE mark, UL	
Crankcase heater	120Z5040	Belt type, 70 W, 240 V, CE mark, UL	
Crankcase heater	118U0051	CRANKCASE HEATER 55W	
Discharge pressure sensor	075G1036	Sensor DST P110 (0 to 32 bar SG)	
Discharge pressure sensor	118U3722	AKS 32R 0...32 bar	
Discharge temperature sensor	084N2007	AKS 21 A -70 TIL 160	
Door handle	118U3858	Door handle, ABB-OHB2AJM,MSMN,OXSSX131	
Electric expansion valve	034G5015	ETS 6-14 Electric expansion valve	
Electric expansion valve coil	034G5145	ETS 6 coil for Ele expansion valve	
Electric expansion valve coil	034G5185	ETS 6 coil for Ele expansion valve	
External Display & settings	084B8575	EKA 164B, Display, Remote setting	
Fan assembly	118U3829	FAN ASSEMBLIES, EBM, ERP2015	
Fan blade	118U3480	FAN BLADE 14"	
Fan blade	118U3481	FAN BLADE 18"	
Fan capacitor	118U3296	CAPACITOR 1,8 µF	
Fan capacitor	118U3297	CAPACITOR 3,5 µF	
Fan cowl/grill	118U3483	FAN GRILL HOUSING Ø356 mm	
Fan cowl/grill	118U3484	FAN GRILL HOUSING Ø457 mm	
Fan cowl/grill	118U3485	FAN GRILL HOUSING Ø609 mm	
Fan LH panel H4	118U5137	SPARE PART, SHEET METAL FAN LH H4	
Fan motor (Capacitor not included)	118U3477	FAN MOTOR 25W	
Fan motor (Capacitor not included)	118U3823	FAN MOTOR 68 W	
Fan motor (Capacitor not included)	118U3478	FAN MOTOR 75W	
Filter drier	023Z5039	Filter drier DML 082	
Filter drier	023Z5040	Filter drier DML083	
Filter drier	023Z5041	Filter drier DML084	
Filter drier	023Z5044	Filter drier DML164	
Filter drier	023Z5045	Filter drier DML165	
Filter drier	023Z5046	Filter drier DML166	
High-pressure switch	118U3718	ACB-2UB463W	
Liquid injection controller	118U4010	Spare Part, Module B Plus	
Liquid valve	009G7050	GBC 6s Ball Valve M/25	
Liquid valve	009G7051	GBC 10s Ball Valve M/25	
Liquid valve	009G7052	GBC 12s Ball Valve M/25	
Liquid valve	009G7053	GBC 16s Ball Valve M/25	
Liquid valve	009G7054	GBC 18s Ball Valve M/25	
Lon-Bus COM Module	084B8579	EKA175, LON-module	
Low-pressure switch	118U3720	ACB-2UA418W	
Main switch kit	118U3855	MPCB,MS132-25+HK1-12	
Main switch kit	118U3856	MPCB,MS132-32+HK1-12	
Main switch kit	118U3857	MPCB,MS450-40+HKS4-21	
MODBUS COM Module	084B8571	EKA 178B, Modbus Module	
Mounting kit for EKA Display	084B8584	Mounting kit, EKA display	
MPCB	118U3851	MPCB,MS116-10+HK1-12	
MPCB	118U3852	MPCB,MS116-16+HK1-12	
MPCB	118U3853	MPCB,MS116-6.3+HK1-12	
MPCB	118U3854	MPCB,MS132-20+HK1-12	
Oil	-	POE32 for Light Commercial (MLY / MPT)	
Oil	-	RL32HA/HT for light Commercial (CAJ/FH/TAJ/TFH)	
Oil	120Z0638	1 litre can of 175PZ - POE (NTZ Platform)	CU with a SN above 051220CG3016
Oil	120Z0639	2,5 litre can of 175PZ - POE (NTZ Platform)	CU with a SN above 051220CG3016
Oil	120Z0648	1 litre can of 215PZ - POE46 (MLZ & LLZ Platform)	CU with a SN above 051220CG3016
Optyma Plus Controller	118U3465	OPTYMA PLUS CONTROLLER-084B8080	
Pressure relief Valve	118U4096	SPARE PART, PRV B 33755	
Programming Key	084B8582	AKA183A	
Receiver	118U3474	LIQUID RECEIVER 1,3 L	
Receiver	118U3475	LIQUID RECEIVER 3,4 L	
Receiver	118U3476	LIQUID RECEIVER 6,2 L	
Receiver	118U3716	LIQUID RECEIVER 10 L	
Relay	117-7027	SC-RELAY	
Relay	123B9151	RELAY + CON. BOARD 1158-8 BDG 158S+ NTC	
Relay	123B9133	RELAY + CON. BOARD 1149-8 BDG 149S+ NTC	
Relay	123B9139	RELAY + CON. BOARD 1166-8 BDG 166S+ NTC	
Run C capacitor	123B9219	RUN CAPACITOR 16µF/420V, REF. 321	
Run C capacitor	123B9222	RUN CAPACITOR 10µF/420V, REF. 326	

Component type	Component code	Component description	Additional informations
Run C capacitor	123B9226	RUN CAPACITOR 25µF/420V, REF. 310 MET.	
Run capacitor	7701035	PSC starting kit, 30 µF, 15 µF	
Run capacitor	8173231	Run capacitor 440V, 40 µF	
Run capacitor	8173233	Run capacitor 440V, 50 µF	
Run capacitor	8173234	Run capacitor 440V, 55 µF	
Run capacitor	120Z0051	Run capacitor 70 µF	
Sight glass	014L0172	Sight Glass, SGP 10 N	
Sight glass	014L0173	Sight Glass, SGP 12 N	
Sight glass	014L0174	Sight Glass, SGP 16 N	
Sight glass	014L0175	Sight Glass, SGP 19 N	
Sight glass	014L0181	Sight Glass, SGP 6s N	
Sight glass	014L0182	Sight Glass, SGP 10s N	
Start capacitor	123B9316	STARTING CAPACITOR+CC 72-88µF/330V R216	
Start capacitor	123B9315	STARTING CAPACITOR+CC 64-77µF/330V R205	
Start capacitor	117U5373	START CAPACITOR 80 mfd	
Starting capacitor	123B9215	CAPACITOR 20µF/420V, REF. 309 MET	
Starting capacitor	117U5012	Start capacitor 125 µF, 220V - SC	
Starting capacitor	117U5017	Start capacitor 80 µF, 220V - SC	
Starting capacitor	117U5018	Start capacitor 125 µF, 220V - NF,NL	
Starting capacitor	120Z0040	Start capacitor 161-193 µF	
Starting capacitor	120Z0399	Start capacitor 145-175 µF	
Starting KIT	118U5191	CAJ2446Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5192	CAJ2464Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5193	CAJ4492Y _ F1 KIT Capacitor and relay	
Starting KIT	118U5194	CAJ4511Y _ F1KIT Capacitor and relay	
Starting KIT	118U5195	CAJ4517Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5196	CAJ4519Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5197	CAJ9510Z _ F1 KIT Capacitor and relay	
Starting KIT	118U5198	CAJ9513Z _ F1KIT Capacitor and relay	
Starting KIT	118U5199	FH2511Z _ F1KIT Capacitor and relay	
Starting relay	8173022	Starting relay type RVA-6AMKL/3ARR3J4A4	
Starting relay	117U4139	RELAY ASSY. HST - "MRP56EN-6; 117U2121	
Starting relay	120Z0393	Starting relay type RVA9CKL/3ARR3J4A4	
Starting relay	120Z0394	Starting relay type RVA3EKL/3ARR3J24P4	
Starting relay	120Z0395	Starting relay type RVA4GKL/3ARR3J25S4	
Suc & Amb temp sensor	084N0003	Sensor, AKS11	
Suction pressure sensor	075G1013	Sensor DST P110 (-1 to 12 bar SG)	
Suction pressure sensor	118U3721	AKS 32R -1...12 bar	
Suction valve	009G7055	GBC 22s Ball Valve M/25	
Suction valve	009G7056	GBC 28s Ball Valve M/5	
Access Panel H1	118U5125	SPARE PART, SHEET METAL ACCESS H1	
Access Panel H2	118U5130	SPARE PART, SHEET METAL ACCESS H2	
Access Panel H3	118U5135	SPARE PART, SHEET METAL ACCESS H3	
Access Panel H4	118U5140	SPARE PART, SHEET METAL ACCESS H4	
Back Panel H1	118U5123	SPARE PART, SHEET METAL BACK H1	
Back Panel H2	118U5128	SPARE PART, SHEET METAL BACK H2	
Back Panel H3	118U5133	SPARE PART, SHEET METAL BACK H3	
Back Panel H4	118U5139	SPARE PART, SHEET METAL BACK H4	
Fan panel H1	118U5122	SPARE PART, SHEET METAL FAN H1	
Fan panel H2	118U5127	SPARE PART, SHEET METAL FAN H2	
Fan panel H3	118U5132	SPARE PART, SHEET METAL FAN H3	
Fan RH panel H4	118U5138	SPARE PART, SHEET METAL FAN RH H4	
Front Panel H1	118U5124	SPARE PART, SHEET METAL FRONT H1	
Front Panel H2	118U5129	SPARE PART, SHEET METAL FRONT H2	
Front Panel H3	118U5134	SPARE PART, SHEET METAL FRONT H3	
Left Side Panel H1	118U5163	SPARE PART, SHEET METAL LEFT SIDE H1	
Left Side Panel H2	118U5164	SPARE PART, SHEET METAL LEFT SIDE H2	
Left Side Panel H3	118U5165	SPARE PART, SHEET METAL LEFT SIDE H3	
Left Side Panel H4	118U5166	SPARE PART, SHEET METAL LEFT SIDE H4	
Top Panel H1	118U5121	SPARE PART, SHEET METAL TOP H1	
Top Panel H2	118U5126	SPARE PART, SHEET METAL TOP H2	
Top Panel H3	118U5131	SPARE PART, SHEET METAL TOP H3	
Top Panel H4	118U5136	SPARE PART, SHEET METAL TOP H4	

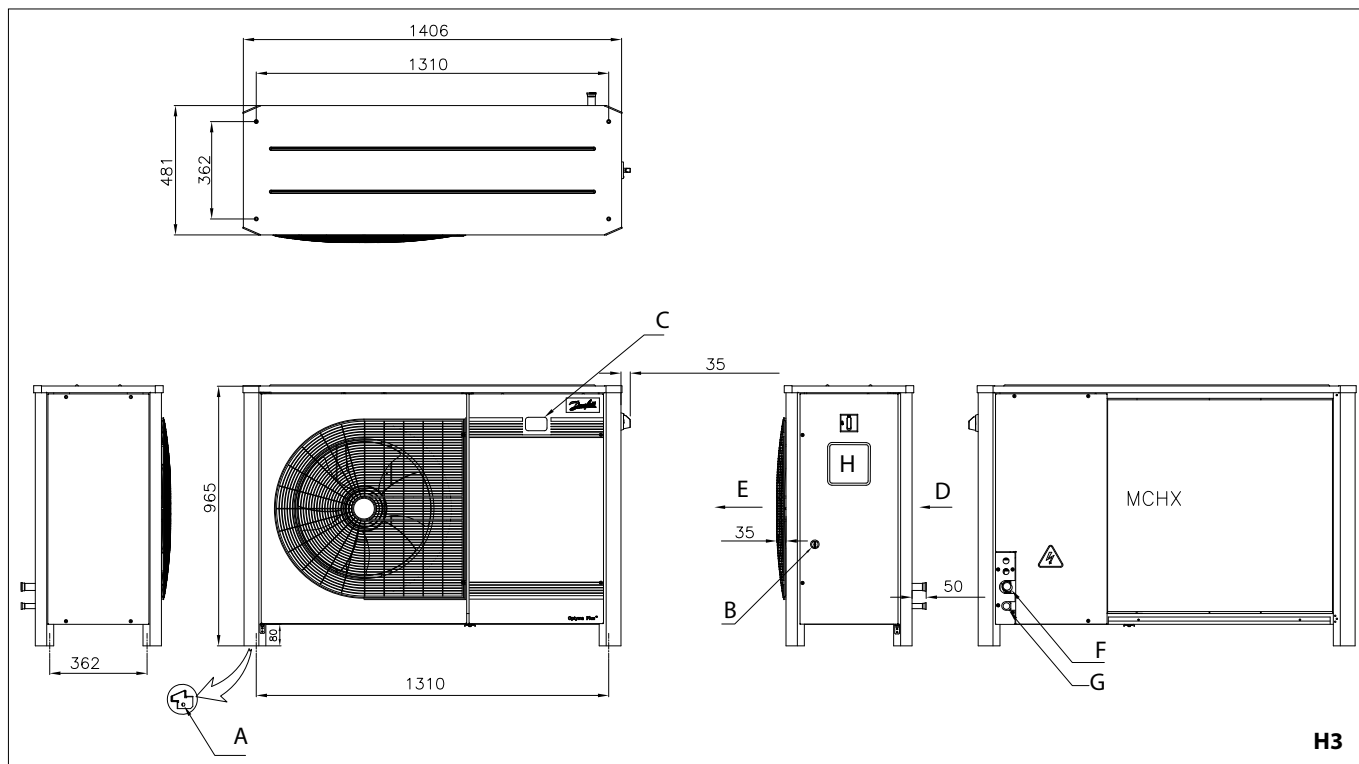
OP-LPHM018, OP-LPQM017, OP-MPYM008-009-012-014 & OP-MPHM007-010-012-015-018



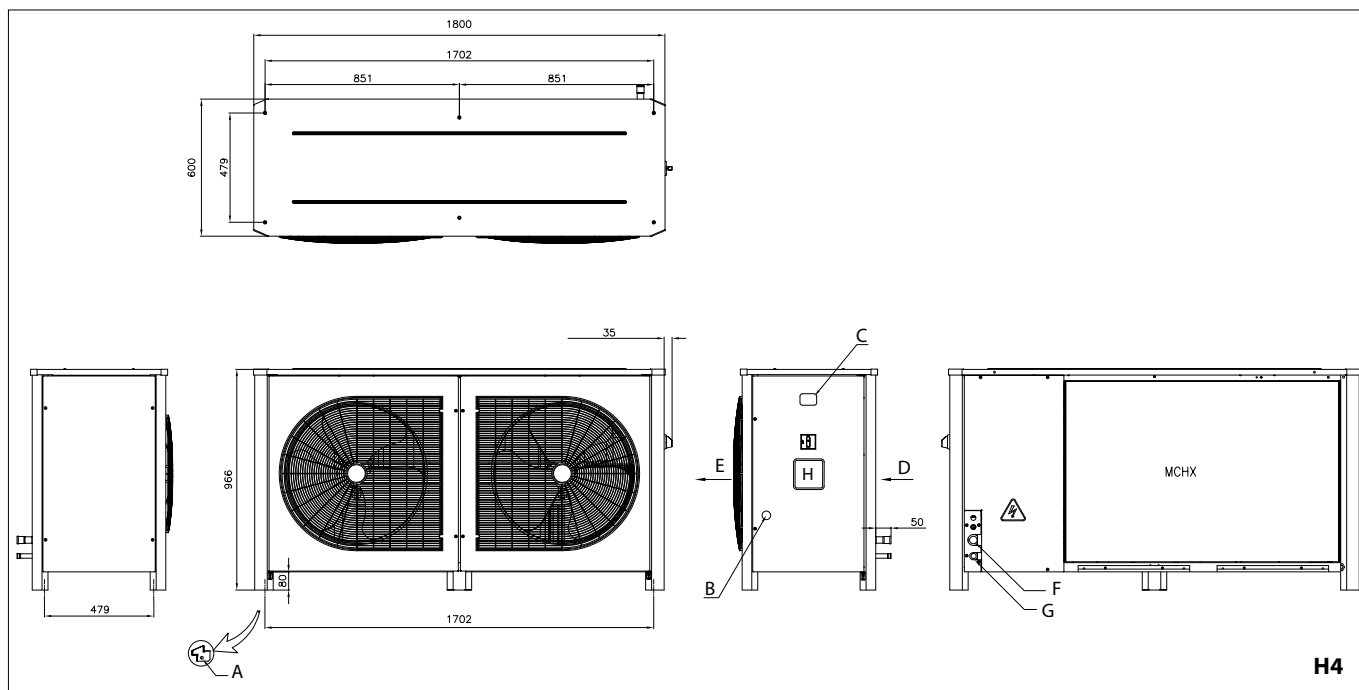
OP-LPQM026-048-068-074 & OP-MPOM018-024-026-034 & OP-MPXM034-046-057 & OP-MPGM033-34 & OP-MPHM026-034 & OP-LPHM026



OP-LPQM096-136 & OP-MPXM068-080-108



OP-LPQM215-271 & OP-MPXM125-162



English Legend

- A Ø12 Hole for Mounting
- B Sight Glass
- C Controller Display

- D Air in
- E Air out
- F Suction Port
- G Liquid Port

- ⚠ Electrical Cables
- Note: all dimension are in mm



For electrical wiring diagrams refer to installation guide AN18658643414603-xxxxxx

Notas:

Optyma™ Plus INVERTER

Capacity modulation in a simple and adaptive package

Combines our market-leading expertise in condensing unit design with the unique benefits of stepless inverter scroll technology. The result is energy consumption reduced by up to 30% with better food preservation.



Quick and safe installation and service

Preset parameters and Modbus communication makes start-up and maintenance of the condensing unit effortlessly quick and easy.



High SEPR*: 3.84 – certified by ASERCOM

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.



Accurate temperature control

Accurate temperature control and low in-rush current result in a more stable storage temperature and longer product shelf life.



Extended capacity

Stepless compressor modulation - able to slow down and speed up from 30 to 100 RPS to save energy and match load fluctuations very accurately. The inverter drive incorporates smart logic to increase reliability during operation.

Best SEPR with stepless modulation reduces energy consumption by up to

30%



Designed for ultimate efficiency

Stepless capacity modulation

From 30 to 100 rps modulation leads to 20-30% higher energy efficiency compared to fixed-speed condensing units.

Simple commissioning

Preset drive parameters with dedicated refrigeration software.

Future-proof

Working with lower GWP refrigerants such as R448A and R449. Also compatible with R407A/F and R404A.



Danfoss compressor and drive package

Dedicated to refrigeration with years of market application and validation.

Simple plug-and-play installation

Safe, simple and hassle-free installation with tried-and-tested components.

Full intelligent control through the Optyma™ Plus Controller

Control, alarm management, day & night operation, can connect to ADAP-KOOL® software, etc.

High SEPR/COP cuts energy costs

E.g. in a cold room where meat is stored and with 9 kW of cooling capacity.

Optyma™ Plus INVERTER MBP unit vs mechanically modulated technology*

Cooling cap.: 9 kW
Refrigerant: R407F



UNIT	Danfoss	Market
SEPR	3.84	2.50
USAGE	~ 14 000 kWh	~ 21 600 kWh

Annual energy consumption saved: 7600 kWh

Savings based on cost of energy:

2.12 ZAR / 1 KWH = 7600 × 2.12 = 16112 ZAR

16112

annual electricity savings made by your customer in South Africa

* Source: Danfoss

Model	Code	Version	Compressor	Electrical code (1)	Compressor speed, rps	Tamb [°C]	Cooling capacity Q [kW] (2)					EcoDesign (3)		Sound power level dB(A)	Sound pressure level 10 m dB(A)
							Evaporating Temperature (Mid point) [°C]								
							-15 °C	-10 °C	-5 °C	0 °C	5 °C	COP	SEPR		
OP-MPPM028VVL	114X4302	P01	VLZ028TGA	E	30	27	1.61	2.01	2.49	3.03	-	-	-	72	41
						32	1.52	1.90	2.35	2.87	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	2.74	3.39	4.16	5.02	-	-	-	73	41
						32	2.58	3.20	3.93	4.75	-				
						38	-	2.96	3.65	4.42	-				
						43	-	2.75	3.40	4.13	-				
					75	27	4.01	4.94	6.04	7.27	-	-	-	73	42
						32	3.78	4.66	5.70	6.87	-				
						38	-	4.32	5.29	6.38	-				
						43	-	4.02	4.93	5.96	-				
					100	27	5.14	6.30	7.68	9.24	-	-	3.75	74	43
						32	4.85	5.95	7.26	8.73	-				
						38	-	5.53	6.74	8.11	-				
						43	-	5.16	6.31	7.59	-				
OP-MPPM035VVL	114X4316	P01	VLZ035TGA	E	30	27	2.02	2.52	3.11	3.79	-	-	-	72	41
						32	1.90	2.37	2.94	3.58	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	3.40	4.20	5.14	6.19	-	-	-	72	41
						32	3.19	3.96	4.85	5.85	-				
						38	-	3.65	4.49	5.42	-				
						43	-	3.38	4.18	5.06	-				
					75	27	4.95	6.09	7.42	8.90	-	-	-	74	43
						32	4.66	5.73	6.99	8.40	-				
						38	-	5.30	6.47	7.78	-				
						43	-	4.923	6.02	7.25	-				
					100	27	6.34	7.76	9.43	11.31	-	-	3.63	74	43
						32	5.98	7.32	8.90	10.67	-				
						38	-	6.79	8.25	9.90	-				
						43	-	6.34	7.71	9.25	-				
OP-MPPM044VVL	114X4334	P01	VLZ044TGA	E	30	27	2.60	3.23	3.97	4.80	-	-	-	72	41
						32	2.44	3.04	3.75	4.54	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	4.27	5.27	6.44	7.74	-	-	-	74	43
						32	4.01	4.96	6.07	7.30	-				
						38	-	4.57	5.61	6.77	-				
						43	-	4.24	5.22	6.31	-				
					75	27	6.22	7.62	9.25	11.04	-	-	-	74	43
						32	5.83	7.16	8.70	10.40	-				
						38	-	6.59	8.03	9.61	-				
						43	-	6.10	7.45	8.94	-				
					100	27	7.99	9.75	11.76	13.95	-	-	4.12	74	43
						32	7.46	9.13	11.05	13.12	-				
						38	-	8.36	10.14	12.08	-				
						43	-	7.68	9.35	11.18	-				

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

(2) Q [kW], Cooling Capacity

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

(3) SEPR, Seasonal Energy Performance Ratio

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

Model	Code	Version	Compressor	Electrical code (1)	Compressor speed, rps	Tamb [°C]	Cooling capacity Q [kW] (2)					EcoDesign (3)		Sound power level dB(A)	Sound pressure level 10 m dB(A)
							Evaporating Temperature (Mid point) [°C]								
							-15 °C	-10 °C	-5 °C	0 °C	5 °C	COP	SEPR		
OP-MPPM028VVV	114X4302	P01	VLZ028TGA	E	30	27	1.61	2.00	2.46	2.99	-	-	-	72	41
						32	1.49	1.87	2.30	2.80	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	2.72	3.36	4.11	4.96	-	-	-	72	41
						32	2.52	3.13	3.83	4.63	-				
						38	-	2.84	3.49	4.23	-				
						43	-	2.60	3.19	3.88	-				
					75	27	4.03	4.96	6.02	7.24	-	-	-	73	42
						32	3.74	4.61	5.61	6.76	-				
						38	-	4.19	5.11	6.16	-				
						43	-	3.82	4.68	5.65	-				
					100	27	5.25	6.44	7.79	9.32	-	-	3.56	74	43
						32	4.88	6.00	7.27	8.70	-				
						38	-	5.44	6.61	7.92	-				
						43	-	4.96	6.03	7.25	-				
OP-MPPM035VVV	114X4316	P01	VLZ035TGA	E	30	27	2.04	2.53	3.11	3.76	-	-	-	72	41
						32	1.89	2.36	2.89	3.52	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	3.43	4.22	5.14	6.20	-	-	-	72	41
						32	3.18	3.93	4.79	5.78	-				
						38	-	3.56	4.35	5.25	-				
						43	-	3.24	3.97	4.80	-				
					75	27	5.01	6.14	7.44	8.93	-	-	-	74	43
						32	4.65	5.71	6.93	8.31	-				
						38	-	5.17	6.28	7.55	-				
						43	-	4.71	5.73	6.90	-				
					100	27	6.42	7.85	9.48	11.34	-	-	3.87	74	43
						32	5.96	7.29	8.82	10.55	-				
						38	-	6.60	7.99	9.57	-				
						43	-	6.00	7.27	8.72	-				
OP-MPPM044VVV	114X4334	P01	VLZ044TGA	E	30	27	2.64	3.26	3.98	4.80	-	-	-	72	41
						32	2.44	3.03	3.71	4.48	-				
						38	-	-	-	-	-				
						43	-	-	-	-	-				
					50	27	4.36	5.34	6.47	7.75	-	-	-	74	43
						32	4.04	4.97	6.03	7.24	-				
						38	-	4.51	5.49	6.60	-				
						43	-	4.10	5.01	6.04	-				
					75	27	6.32	7.72	9.31	11.10	-	-	-	74	43
						32	5.87	7.18	8.67	10.34	-				
						38	-	6.50	7.87	9.40	-				
						43	-	5.91	7.17	8.59	-				
					100	27	8.09	9.86	11.85	14.06	-	-	3.89	74	43
						32	7.49	9.14	11.00	13.06	-				
						38	-	8.23	9.93	11.82	-				
						43	-	7.45	9.01	10.75	-				

MBP

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

(2) Q [kW], Cooling Capacity

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

(3) SEPR, Seasonal Energy Performance Ratio

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

Optyma™ Plus INVERTER - Technical data

Application	Code number	Model number	Compressor Model	Electrical Code (1)	Refrigerant (2)	Condenser Coil			Fan		Receiver	Dimensions				Connection		Weight	
						Type	Airflow	Internal Volume	Number	Blade ø		Housing	Height	Width	Length	Suction valve	Liquid valve	Gross	Net
	P01						(m³/h)	(dm³)		(mm)	(L)		mm	mm	mm	inch	inch	Kg	Kg
MBP	114X4302	OP-MPPM028VVLP01E	VLZ028TGA	E	P	G7	5200	1.62	1	500	6.2	H3	965	1406	481	3/4"	5/8"	150	124
MBP	114X4316	OP-MPPM035VVLP01E	VLZ035TGA	E	P	G7	5200	1.62	1	500	6.2	H3	965	1406	481	3/4"	5/8"	151	125
MBP	114X4334	OP-MPPM044VVLP01E	VLZ044TGA	E	P	G7	5200	1.62	1	500	6.2	H3	965	1406	481	3/4"	5/8"	151	125

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

(2) **P** - R448A, R449A, R407A, R407F, R404A

Optyma™ Plus INVERTER - Spare parts & accessories - MBP

Designation	OP-MPPM028	OP-MPPM035	OP-MPPM044
Code Number	114X4302	114X4316	114X4334
Compressor Description	VLZ028TGA	VLZ035TGA	VLZ044TGA
Compressor oil	120Z0648	120Z0648	120Z0648
Spare Parts			
Compressor	120G0162	120G0159	120G0156
Condenser	118U5219	118U5219	118U5219
Oil separator	118U3981	118U3981	118U3982
Fan assembly	118U3829	118U3829	118U3829
Fan cowl/grill	118U3485	118U3485	118U3485
Filter	023Z5045	023Z5045	023Z5045
High-pressure switch	118U3718	118U3718	118U3718
Low-pressure switch	118U3720	118U3720	118U3720
Receiver	118U4015	118U4015	118U4015
Sight glass	014F0174	014F0174	014F0174
Suction line valve	009G7054	009G7054	009G7054
Liquid line valve	009G7053	009G7053	009G7053
Electrical Spare Parts			
Crankcase heater (Compressor)	120Z5040	120Z5040	120Z5040
Crankcase heater (Oil separator)	120Z0460	120Z0460	120Z0460
Controller	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007
High-pressure transmitter	118U4021	118U4021	118U4021
Low-pressure transmitter	118U4025	118U4025	118U4025
Suction and ambient temp sensor	084N0003	084N0003	084N0003
Compressor contact	118U3847	118U3847	118U3847
Door handle	118U3858	118U3858	118U3858
Main switch	118U3854	118U3854	118U3854
Compressor drive CDS803	118U3973	118U3973	118U3973
EMI filter (Drive)	118U4079	118U4079	118U4079
EMI filter (Controller)	118U3974	118U3974	118U3974
Electrical Characteristics			
MCC Compressor [A] 400V/3phase	8.1	9.8	12.0
Max cont.power consumption [kW]	3.98	4.94	6.33
Max Cont. fuse rating gG (A)	25	25	25
MCC Fan [A] 230V/1 phase	0.96	0.96	0.96
Fan power output [W]	1x130	1x130	1x130
Fan power consumption [W]	1x220	1x220	1x220
Accessories (Not Premounted)			
Acoustic hood	120Z5043	120Z5043	120Z5043
Adapter Plug (Receiver)	118U4037	118U4037	118U4037
Sheet Metal			
Top panel	118U5131	118U5131	118U5131
Fan Panel	118U5132	118U5132	118U5132
Back panel	118U5133	118U5133	118U5133
Front panel	118U5134	118U5134	118U5134
Access panel	118U5135	118U5135	118U5135
Left side panel	118U5165	118U5165	118U5165

MCC - Max Continuous Current

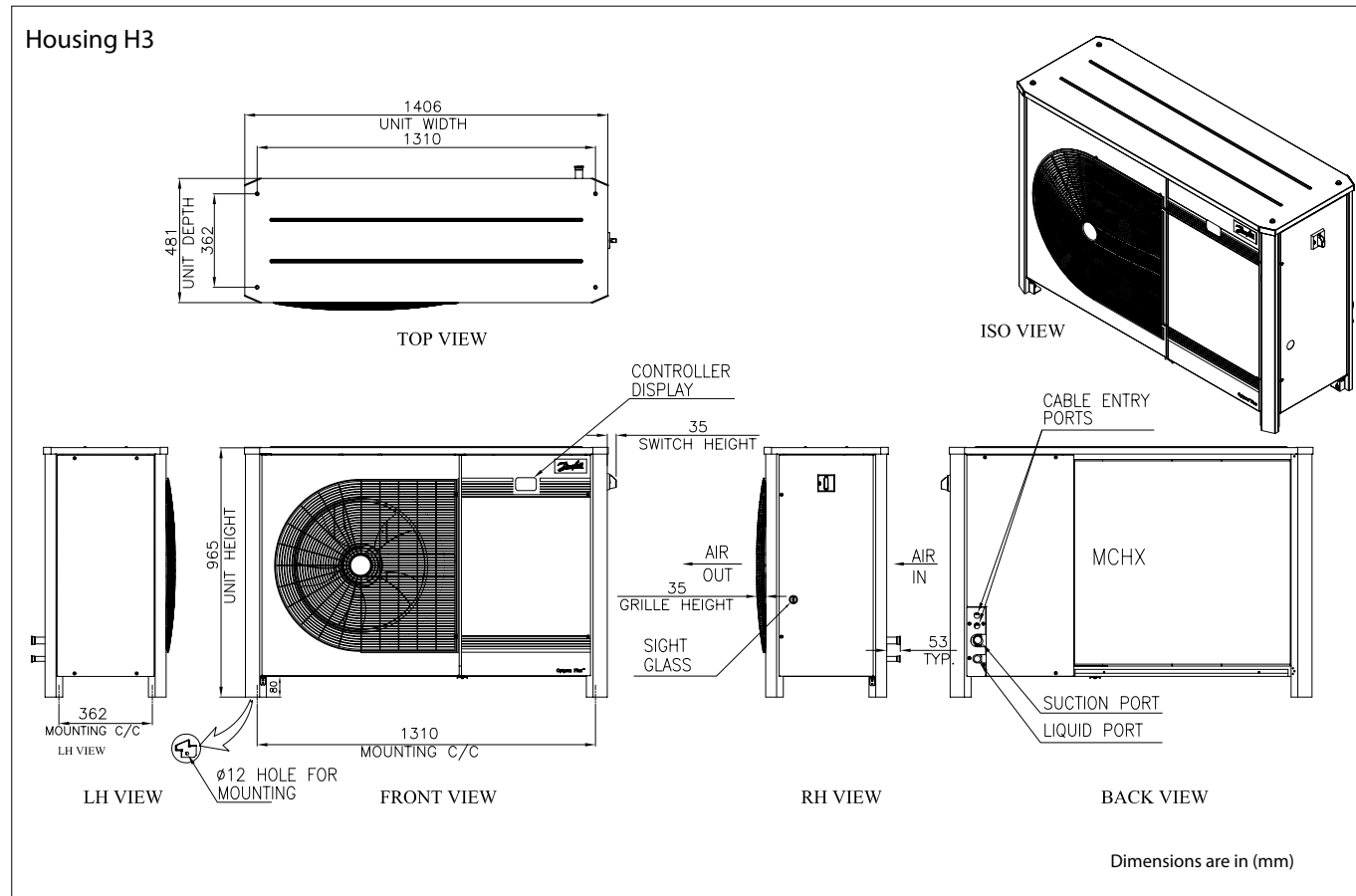
*Phased out model

NOTICE For service purpose original components (spare parts) recommended by Danfoss should be used.

Component type	Component code	Component description	Additional informations
Access Panel	118U5135	SPARE PART, SHEET METAL ACCESS H3	
Acoustic hood	120Z5043	ACCOUSTIC HOOD SMALL now use (120Z5083)	
Adapter Plug	118U4037	Adapter Plug	
Back panel	118U5133	SPARE PART, SHEET METAL BACK H3	
Compressor contact	118U3847	CONT, ABB-A16-30-01-80+CA5-11	
Compressor drive CDS803	118U3973	Drive CDS803 7,5kW H OPTYMA INVERTER	
Compressor Single pack	120G0162	Compressor VLZ028TGNE9A/M	
Compressor Single pack	120G0159	Compressor VLZ035TGNE9A/M	
Compressor Single pack	120G0156	Compressor VLZ044TGNE9A/M	
Condenser	118U5219	SPare part, 9513 B3, H3, G7 MCHX	
Controller	118U3465	OPTYMA PLUS CONTROLLER-084B8080	
Crankcase heater	120Z5040	CRANKCASE HEATER, 240V 70W	
Discharge temperature sensor	084N2007	Sensor AKS 21 A 2.5m	
Door handle	118U3858	HANDLE, ABB-OHB2AJM,MSMN,OX5X131	
EMI filter (Controller)	118U3974	CONTROLLER EMC/RFI FILTER OPTYMA PLUS	
EMI filter (Drive)	118U4079	SPARE PART, EMC/RFI FILTER FN3288-16-44-C17-R65	For prior unit upto SN XXXXXCG3820, follow instruction manual to replace 118U3972 to 118U4079
Fan assembly	118U3829	FAN ASSEMBLIES, EBM, ERP2015	
Fan cowl/grill	118U3485	FAN GRILL HOUSING 3 OP PLUS	
Fan panel	118U5132	SPARE PART, SHEET METAL FAN H3	
Filter	023Z5045	Filter drier DML 165 M/12	
Front Panel	118U5134	SPARE PART, SHEET METAL FRONT H3	
High-pressure switch	118U3718	HIGH PR SWITCH ACB-2UB463W	
High-pressure transmitter	075G1036	Sensor DST P110 (0 to 32 bar SG)	For prior units upto SNXXXXXXXX0120, Use 118U4021 to replace AKS pressure transmitter to DST P110.
Left Side panel	118U5165	SPARE PART, SHEET METAL LEFT SIDE H3	
Liquid valve	009G7053	GBC 16s Ball Valve M/25	
Low-pressure switch	118U3720	LOW PR SWITCH ACB-2UA418W	
Low-pressure transmitter	075G1013	Sensor DST P110 (-1 to 12 bar SG)	For prior units upto SNXXXXXXXX0120, Use 118U4025 to replace AKS pressure transmitter to DST P110.
Main switch	118U3852	MPCB, ABB-MS116-16+HK1-12	
Main switch	118U3854	MPCB, ABB-MS132-20+HK1-12	
Oil Separator	118U3981	SEPARATEUR HUILE SO/ER-31 OPTYMA INVERT	
Oil separator	118U3982	SEPARATEUR HUILE SO/ER16101 OPTYMA INVER	
Receiver	118U4015	Receiver 6.2L, 3/8 NPT (Ods 5/8" - Dia 16.2 Rotor Lock)	
Sight glass	014F0174	Del-SGN+ 16 Sight Glass M/36	
Suction and ambient temp sensor	084N0003	Sensor AKS 11 3.5m	
Suction valve	009G7054	GBC 18s Ball Valve M/25	
Top Panel	118U5131	SPARE PART, SHEET METAL TOP H3	

OP-MPLM028-035-044, OP-MPPM028-035-044

Housing H3



Optyma™ Plus INVERTER - Housing spare parts



For electrical wiring diagrams refer to installation guide AN18718642524202-xxxxxx

Danfoss Cooling

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We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spanning across three continents.



Danfoss Scrolls



Danfoss Inverter Scrolls



Danfoss Turbocor Compressors



Danfoss Light Commercial Refrigeration Compressors



Danfoss Maneurop Reciprocating Compressors



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Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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