

Australian Catalogue

Optyma™

Packaged condensing units

Match your application needs – every time with the Danfoss Optyma™ outdoor and indoor condensing units for Australia, with MBP and LBP refrigeration, there is a solution for your exact application needs. Featuring multiple lower-GWP refrigerants, high energy performance ratios and trouble-free installation, they help reduce running costs and increase cooling quality for the safer protection of perishables.

Make the optimal choice from our extensive range of outdoor and indoor condensing units.

R404A/R507, R448A, R449A, R452A, R134a, R513A - 50Hz



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Danfoss Optyma™ condensing units overview

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™ Commercial



from ~1.5 kW and up

Highly efficient new line with **microchannel condenser**, multiple lower-GWP refrigerants, and working up to 46°C ambient temperature. Easy to install and service. 6 pole fan motor instead of 4 pole fan.



Optyma™ Slim Pack (W10)



Compact and cost effective.
With microchannel condenser and fan speed controller



Optyma™ Plus (P00 / P05)



Reliability & connectivity to the cloud.

With electronic controller



Optyma™ with Liquid Injection (P02)

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



Optyma™ Plus INVERTER (P01)



Unmatched efficiency for high energy savings.

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 W10 G

OP = Optyma™

1 2 3 4 5 6 7 8

1	Application: M = MBP ; L = LBP
2	Condensing unit family: S = Slim Pack / P = OP Plus and OP Plus INVERTER
3	Refrigerant: A = R744; B = R404A/R507, R449A, R452A; G = R134a, R513A; H = R404A/R507; O = R452A, R404A/R507, R448A, R449A; P = R448A/R449A, R407A/F, R404A/R507; Q = R452A, R404A/R507; S = R134a, R513A, R1234yf; T = R404A/R507, R455A, R454C, R448A/R449A, R452A; V = R454C, R455A, R452A, R404A/R507; X = R404A/R507, R134a, R407A, R407F, R448A, R513A, R449A, R452A; Y = R404A/R507, R449A;
4	M = Microchannel heat condenser
5	Displacement in cm ³ Example 034 = 34 cm ³
6	Compressor platform (such as VVL = variable speed scroll VLZ) DX/DP/DS/DY/SC and CS = Fixed Recip Compressor
7	Version: A14 : Optyma™ Commercial W10 : Optyma™ Slim Pack P00 / P05 : Optyma™ Plus P02 : Optyma™ Plus with Liquid Injection 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™ Commercial	Optyma™ Slim Pack		Optyma™ Plus		Optyma™ Plus INVERTER
	(A14)	(W10)		(P00 / P05)	(P02)	(P01)
IP level		IP54		IP54		IP54
Compressor technology	Reciprocating	Scroll/Reciprocating		Scroll/Reciprocating	Scroll	Variable speed scroll
Control box (pre-wired E-panel)		yes		yes		yes
Microchannel condenser		yes		yes		yes
Fan speed controller	yes	-	yes	yes		yes
Main switch (circuit breaker)		-	yes	yes		yes
Filter drier (flare connections)		yes		yes		yes
Sight glass	yes	yes		yes		yes
Crankcase heater	yes(1)	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(2)		yes		yes
HP/LP Alarm	yes	yes(2)		yes		yes
Liquid injection kit	-	-		-	yes	-
Net weight in kg	Lighter single fan: 53 Bigger single fan: 179 Lighter dual fan: 110 Bigger dual fan: 211	B2 housing: from 61.5 to 77 B3 housing: from 76 to 79		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)	Smaller single fan: 545 x 900 x 900 Larger single fan: 836.5 x 1200 x 800 Smaller dual fan: 693.5 x 1500 x 870 Larger dual fan: 836.5 x 1500 x 870	B2 housing: 690 x 1079 X464 B3 housing: 825 x 1105 x 464		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

(1) LBP models only

(2) Not premounted, provision available

Overview by range and refrigerant:

Min / Max Cooling capacity range [kW]	Optyma™ Commercial	Optyma™ Slim Pack	Optyma™ Plus	Optyma™ with Liquid injection	Optyma™ Plus INVERTER
Medium temperature (MBP)					
R744	-	-	-	-	-
R448A/R449A	2.6 - 7.7	3.3 - 10.0	0.8 - 16.2	-	5.9 - 9.1
R134a	1.7 - 5.6	2.4 - 7.1	1.3 - 10.2	-	-
R513A	1.8 - 5.4	2.4 - 7.1	1.3 - 10.3	-	-
R452A	2.8 - 8.2	3.4 - 9.8	0.8 - 16.1	-	-
R404A/507	2.7 - 8.7	3.2 - 9.5	0.8 - 16.1	-	6.0 - 9.1
R407C	2.7 - 8.7	-	-	-	-
Low temperature (LBP)					
R448A/R449A	-	1.4 - 4.5	-	3.2 - 7.9	1.8 - 8.7
R452A	1.7 - 6.2	1.2 - 4.1	0.7 - 2.1	3.0 - 7.5	-
R404A/507	1.8 - 6.2	-	0.8 - 6.2	3.2 - 7.4	1.9 - 9.1

Rating conditions EN 13215 (Mid point):

MBP: Ambient temp = 43°C, Evap temp = -5°C, Superheat = 10K, Subcooling = 0K / **LBP:** Ambient temp = 43°C, Evap temp = -25°C, Superheat = 10K, Subcooling = 0K



A2L Optyma™ units qualified for R455A, R454C, R1234yf are available on request

Danfoss Optyma™ bare condensing unit

Optyma™ Commercial

Robust, efficient and reliable condensing units, saving on service and maintenance costs and reducing energy consumption.



Benefits for the contractor

- Broad working envelop
- Multiple lower-GWP refrigerants
- Commercial range with microchannel condenser reducing the refrigerant charge and Light commercial range with fine & tube condenser
- Some of the most reliable hermetic reciprocating compressor on the market
- Economical AUD/kW value



Benefits for the end-user

- Reliable solution
- Low energy consumption under changing working conditions
- Easy & simple condenser maintenance

Optyma™ Commercial
from ~1.5 kW and up

Highly efficient new line with microchannel condenser, multiple lower-GWP refrigerants, and working up to 46°C ambient temperature. Easy to install and service. Quieter by up to 3 dB(A) thanks to 6 pole fan motor instead of 4 pole fan.



Standard range (A14)



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]	P [kW]	COP	SEPR		
						-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LCQN068	114X5784	A14	NTZ068	E	27	1.638	2.137	2.683	3.258	3.861	4.479					71	40
					32	1.440	1.893	2.387	2.904	3.458	4.004	1.792	1.470	1.22			
					38	1.212	1.599	2.029	2.495	2.980	3.443						
					43	-	1.373	1.754	2.166	2.590	-						
OP-LCQN068	114X5783	A14	NTZ068	G	27	1.666	2.135	2.663	3.245	3.867	4.492					71	40
					32	1.450	1.883	2.369	2.902	3.468	4.028	1.815	1.718	1.06			
					38	1.201	1.590	2.025	2.500	3.000	3.491						
					43	-	1.355	1.748	2.175	2.620	-						
OP-LGQN096	114X5785	A14	NTZ096	E	27	2.296	3.118	4.130	5.345	6.777	8.429					82	51
					32	2.030	2.790	3.730	4.864	6.205	7.759	2.430	1.939	1.25	1.77		
					38	1.710	2.384	3.228	4.256	5.481	6.909						
					43	-	2.045	2.801	3.733	4.852	-						
OP-LCQN108	114X5786	A14	NTZ108	E	27	2.865	3.834	4.978	6.313	7.854	9.609					78	47
					32	2.534	3.441	4.499	5.725	7.136	8.738	3.053	2.373	1.29	1.79		
					38	2.115	2.954	3.914	5.015	6.274	7.698						
					43	-	2.533	3.416	4.418	5.556	-						
OP-LCQN136	114X5787	A14	NTZ136	E	27	3.534	4.714	6.084	7.648	9.405	11.350					78	47
					32	3.108	4.198	5.460	6.898	8.514	10.300	3.774	2.972	1.27	1.80		
					38	2.612	3.592	4.722	6.009	7.455	9.055						
					43	-	3.100	4.119	5.279	6.581	-						
OP-LGQN215	114X5788	A14	NTZ215	E	27	5.326	7.065	9.119	11.500	14.22	17.260					86	55
					32	4.707	6.310	8.202	10.400	12.92	15.750	5.669	4.838	1.17	1.73		
					38	3.988	5.422	7.117	9.092	11.36	13.930						
					43	-	4.702	6.227	8.009	10.06	-						

LBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -35°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LCQN068	114X5784	A14	NTZ068	E	27	1.274	1.718	2.223	2.788	3.402	4.055	4.738	1.824	1.671	1.09		71	40
					32	1.103	1.509	1.969	2.481	3.040	3.634	4.256						
					38	0.914	1.275	1.682	2.131	2.620	3.142	3.687						
					43	-	1.093	1.455	1.852	2.281	2.742	-						
OP-LCQN068	114X5783	A14	NTZ068	G	27	1.272	1.686	2.17	2.718	3.322	3.969	4.642	1.814	1.787	1.02		71	40
					32	1.134	1.509	1.945	2.436	2.977	3.555	4.153						
					38	0.970	1.299	1.677	2.102	2.568	3.063	3.572						
					43	-	1.124	1.456	1.826	2.23	2.657	-						
OP-LGQN096	114X5785	A14	NTZ096	E	27	1.69	2.353	3.188	4.213	5.446	6.904	8.604	2.388	1.939	1.23	1.64	82	51
					32	1.457	2.067	2.837	3.783	4.924	6.276	7.857						
					38	1.172	1.713	2.399	3.246	4.272	5.494	6.929						
					43	-	1.417	2.029	2.79	3.717	4.827	-						
OP-LCQN108	114X5786	A14	NTZ108	E	27	1.999	2.792	3.759	4.905	6.231	7.737	9.418	2.852	2.331	1.22	1.70	78	47
					32	1.718	2.449	3.336	4.387	5.602	6.984	8.530						
					38	1.385	2.040	2.831	3.766	4.848	6.08	7.463						
					43	-	1.706	2.415	3.252	4.222	5.329	-						
OP-LCQN136	114X5787	A14	NTZ136	E	27	2.559	3.489	4.609	5.926	7.446	9.170	11.090	3.611	3.149	1.15	1.68	78	47
					32	2.224	3.080	4.108	5.317	6.714	8.301	10.070						
					38	1.831	2.596	3.512	4.589	5.837	7.257	8.848						
					43	-	2.201	3.022	3.989	5.109	6.388	-						
OP-LGQN215	114X5788	A14	NTZ215	E	27	4.041	5.532	7.302	9.371	11.750	14.460	17.50	5.682	4.930	1.15	1.66	86	55
					32	3.469	4.867	6.519	8.446	10.660	13.180	16.010						
					38	2.771	4.042	5.540	7.284	9.291	11.570	14.140						
					43	-	3.349	4.707	6.288	8.109	10.180	-						

LBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -35°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

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SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

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Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	0.947	1.325	1.789	2.343	2.989	3.726	4.552	5.460					74	43
					32	0.815	1.179	1.620	2.145	2.754	3.447	4.223	5.076	1.659	0.856	1.94			
					38	0.676	1.017	1.427	1.912	2.473	3.111	3.824	-						
					43	0.578	0.896	1.276	1.725	2.243	2.832	3.491	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	0.947	1.325	1.789	2.343	2.989	3.726	4.552	5.460					74	43
					32	0.815	1.179	1.620	2.145	2.754	3.447	4.223	5.076	1.659	0.856	1.94			
					38	0.676	1.017	1.427	1.912	2.473	3.111	3.824	-						
					43	0.578	0.896	1.276	1.725	2.243	2.832	3.491	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	1.226	1.653	2.200	2.879	3.697	4.660	5.767	7.016					74	43
					32	1.085	1.494	2.014	2.656	3.429	4.337	5.382	6.559	2.062	1.114	1.85			
					38	0.942	1.323	1.804	2.397	3.110	3.948	4.913	-						
					43	0.848	1.199	1.643	2.189	2.848	3.623	4.517	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	1.226	1.653	2.200	2.879	3.697	4.660	5.767	7.016					74	43
					32	1.085	1.494	2.014	2.656	3.429	4.337	5.382	6.559	2.062	1.114	1.85			
					38	0.942	1.323	1.804	2.397	3.110	3.948	4.913	-						
					43	0.848	1.199	1.643	2.189	2.848	3.623	4.517	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	1.929	2.522	3.237	4.079	5.052	6.154	7.382	8.729					74	43
					32	1.758	2.330	3.014	3.815	4.736	5.778	6.937	8.207	3.092	1.607	1.92			
					38	1.564	2.105	2.745	3.491	4.347	5.312	6.385	-						
					43	1.413	1.921	2.521	3.217	4.014	4.913	5.911	-						
OP-MCRN060	114X5793	A14	MTZ036	G	27	1.929	2.522	3.237	4.079	5.052	6.154	7.382	8.729					74	43
					32	1.758	2.330	3.014	3.815	4.736	5.778	6.937	8.207	3.092	1.607	1.92			
					38	1.564	2.105	2.745	3.491	4.347	5.312	6.385	-						
					43	1.413	1.921	2.521	3.217	4.014	4.913	5.911	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	2.412	3.323	4.446	5.796	7.388	9.226	11.31	13.650					84	53
					32	2.127	2.980	4.028	5.288	6.776	8.499	10.46	12.670	4.162	1.943	2.14			
					38	1.807	2.597	3.561	4.719	6.086	7.675	9.492	-						
					43	1.551	2.296	3.196	4.274	5.546	7.025	8.723	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	2.292	3.28	4.501	5.973	7.708	9.718	12.010	14.58					83	52
					32	2.001	2.93	4.079	5.466	7.107	9.011	11.180	13.63	4.215	2.051	2.06			
					38	1.683	2.538	3.599	4.884	6.408	8.183	10.220	-						
					43	1.446	2.238	3.224	4.421	5.847	7.514	9.429	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	2.589	3.739	5.142	6.811	8.751	10.960	13.440	16.180					83	52
					32	2.278	3.376	4.707	6.286	8.119	10.210	12.550	15.140	4.870	2.308	2.11			
					38	1.912	2.949	4.195	5.666	7.372	9.3170	11.500	-						
					43	1.615	2.601	3.778	5.161	6.761	8.585	10.630	-						

MBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	1.093	1.481	1.946	2.489	3.113	3.816	4.600	5.464					74	43
					32	0.984	1.344	1.775	2.282	2.864	3.524	4.261	5.075	1.879	0.921	2.04			
					38	0.863	1.189	1.581	2.044	2.578	3.185	3.867	-						
					43	0.772	1.069	1.429	1.854	2.348	2.912	3.548	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	1.066	1.453	1.918	2.465	3.092	3.800	4.586	5.446					74	43
					32	0.956	1.313	1.744	2.253	2.840	3.504	4.243	5.056	1.828	0.928	1.97			
					38	0.836	1.156	1.545	2.007	2.544	3.155	3.838	4.591						
					43	0.749	1.035	1.388	1.811	2.305	2.869	3.505	4.209						
OP-MCRN048	114X5792	A14	MTZ028	E	27	1.353	1.840	2.433	3.133	3.943	4.863	5.893	7.028					74	43
					32	1.233	1.687	2.238	2.890	3.645	4.506	5.470	6.538	2.354	1.224	1.92			
					38	1.097	1.510	2.011	2.604	3.294	4.082	4.969	-						
					43	0.992	1.370	1.829	2.373	3.007	3.734	4.556	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	1.342	1.831	2.416	3.103	3.897	4.800	5.817	6.948					74	43
					32	1.203	1.659	2.207	2.851	3.598	4.451	5.414	6.491	2.327	1.288	1.81			
					38	1.048	1.463	1.963	2.554	3.243	4.034	4.932	-						
					43	0.929	1.309	1.768	2.313	2.952	3.690	4.534	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	1.827	2.443	3.176	4.033	5.018	6.154	7.449	8.907					74	43
					32	1.671	2.259	2.953	3.763	4.690	5.768	7.008	8.414	3.105	1.613	1.92			
					38	1.468	2.018	2.663	3.412	4.269	5.275	6.449	-						
					43	1.288	1.803	2.405	3.101	3.897	4.842	5.96	-						
OP-MCRN060	114X5793	A14	MTZ036	G	27	1.800	2.449	3.215	4.103	5.117	6.259	7.533	8.939					74	43
					32	1.625	2.238	2.962	3.802	4.766	5.855	7.075	8.429	3.132	1.677	1.87			
					38	1.424	1.992	2.665	3.449	4.352	-	-	-						
					43	1.268	1.797	2.425	3.162	-	-	-	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	2.698	3.599	4.698	6.013	7.556	9.337	11.380	13.690					84	53
					32	2.444	3.280	4.301	5.523	6.962	8.628	10.530	12.700	4.489	1.983	2.26			
					38	2.155	2.916	3.843	4.957	6.272	7.800	9.552	-						
					43	1.926	2.625	3.477	4.501	5.714	7.129	8.757	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	2.774	3.807	5.055	6.529	8.236	10.182	12.369	14.797					83	52
					32	2.470	3.425	4.585	5.962	7.564	9.396	11.462	13.762	4.762	2.157	2.21			
					38	2.144	3.002	4.054	5.311	6.783	8.476	10.394	12.538						
					43	1.908	2.683	3.641	4.796	6.157	7.732	9.524	11.537						
OP-MCRN108	114X5797	A14	MTZ064	E	27	3.214	4.351	5.718	7.328	9.191	10.18	12.420	14.91					83	52
					32	2.875	3.933	5.209	6.717	8.466	9.396	11.490	13.870	5.413	2.434	2.22	3.18		
					38	2.495	3.456	4.620	6.003	7.614	8.476	10.390	-						
					43	2.203	3.081	4.150	5.426	6.920	7.732	9.524	-						

MBP

(1) E - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan

G - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan

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

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

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	1.399	1.814	2.309	2.886	3.546	4.286	5.100	5.984					74	43
					32	1.282	1.666	2.121	2.651	3.257	3.937	4.688	5.509	2.985	1.465	2.04			
					38	1.143	1.490	1.898	2.372	2.914	3.524	4.201	4.946						
					43	-	1.344	1.715	2.143	2.633	3.184	-	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	1.226	1.768	2.392	3.095	3.87	4.711	5.610	6.563					74	43
					32	1.050	1.561	2.147	2.806	3.532	4.319	5.163	6.055	3.207	1.537	2.09			
					38	0.834	1.309	1.850	2.457	3.125	3.849	4.625	5.444						
					43	-	1.097	1.602	2.166	2.786	3.459	-	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	1.804	2.362	3.044	3.862	4.823	5.929	7.182	8.581					74	43
					32	1.654	2.170	2.798	3.549	4.433	5.455	6.617	7.920	3.989	1.790	2.23			
					38	1.478	1.946	2.510	3.185	3.980	4.901	5.955	7.144						
					43	-	1.761	2.275	2.888	3.610	4.450	-	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	1.905	2.578	3.362	4.262	5.279	6.415	7.664	9.025					74	43
					32	1.719	2.355	3.094	3.940	4.895	5.960	7.135	8.417	4.425	1.926	2.30			
					38	1.497	2.088	2.771	3.551	4.431	5.413	6.496	7.682						
					43	-	1.865	2.501	3.225	4.042	4.953	-	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	2.256	3.004	3.889	4.914	6.078	7.379	8.806	10.34					74	43
					32	2.059	2.756	3.579	4.531	5.612	6.820	8.146	9.574	5.098	2.458	2.07	2.93		
					38	1.824	2.458	3.204	4.066	5.045	6.140	7.344	8.644						
					43	-	2.211	2.893	3.679	4.573	5.575	-	-						
OP-MCRN060	114X5793	A14	MTZ036	G	27	2.274	3.022	3.881	4.856	5.948	7.158	8.479	9.906					74	43
					32	2.040	2.754	3.569	4.491	5.521	6.661	7.905	9.245	5.034	2.486	2.02	2.81		
					38	1.751	2.422	3.183	4.039	4.995	6.050	7.200	8.436						
					43	-	2.138	2.852	3.653	4.545	5.529	-	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	2.891	3.974	5.276	6.805	8.567	10.560	12.770	15.210					84	53
					32	2.607	3.622	4.837	6.263	7.904	9.759	11.830	14.110	7.087	3.080	2.30	3.43		
					38	2.255	3.188	4.299	5.601	7.098	8.793	10.690	12.780						
					43	-	2.819	3.843	5.041	6.419	7.981	-	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	3.185	4.371	5.792	7.454	9.358	11.500	13.870	16.460					83	52
					32	2.871	3.983	5.308	6.856	8.628	10.620	12.830	15.250	7.761	3.392	2.29	3.40		
					38	2.483	3.505	4.715	6.126	7.741	9.558	11.570	13.790						
					43	-	3.098	4.214	5.511	6.995	8.666	-	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	3.816	5.141	6.695	8.481	10.500	12.740	15.190	17.830					83	52
					32	3.396	4.630	6.079	7.747	9.634	11.730	14.040	16.530	8.758	3.892	2.25	3.27		
					38	2.916	4.041	5.362	6.887	8.616	10.550	12.670	14.960						
					43	-	3.569	4.784	6.187	7.782	9.565	-	-						

MBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	1.398	1.812	2.307	2.883	3.544	4.283	5.094	5.973					74	43
					32	1.281	1.664	2.118	2.647	3.251	3.933	4.683	5.497	2.969	1.462	2.03			
					38	1.142	1.488	1.896	2.369	2.909	3.521	4.197	4.932						
					43	-	1.343	1.712	2.139	2.627	3.183	-	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	1.225	1.766	2.389	3.091	3.864	4.703	5.601	6.551					74	43
					32	1.049	1.559	2.144	2.801	3.526	4.312	5.152	6.042	3.187	1.533	2.08			
					38	0.833	1.306	1.847	2.452	3.118	3.841	4.614	5.43						
					43	-	1.095	1.599	2.161	2.780	3.450	-	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	1.803	2.361	3.042	3.862	4.823	5.929	7.179	8.574					74	43
					32	1.654	2.169	2.796	3.546	4.432	5.454	6.613	7.912	3.966	1.786	2.22			
					38	1.477	1.944	2.508	3.182	3.976	4.899	5.951	7.134						
					43	-	1.760	2.273	2.885	3.606	4.448	-	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	1.904	2.576	3.36	4.260	5.279	6.415	7.664	9.022					74	43
					32	1.718	2.354	3.092	3.937	4.893	5.960	7.133	8.410	4.400	1.922	2.29			
					38	1.496	2.086	2.769	3.548	4.426	5.409	6.491	7.672						
					43	-	1.864	2.499	3.222	4.037	4.946	-	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	2.255	3.002	3.889	4.914	6.075	7.371	8.796	10.330					74	43
					32	2.058	2.754	3.576	4.526	5.606	6.812	8.135	9.559	5.069	2.452	2.07	2.93		
					38	1.822	2.456	3.201	4.062	5.042	6.134	7.333	8.631						
					43	-	2.209	2.889	3.676	4.572	5.573	-	-						
OP-MCRN060	114X5793	A14	MTZ036	G	27	2.273	3.02	3.878	4.852	5.946	7.155	8.477	9.906					74	43
					32	2.039	2.752	3.566	4.486	5.517	6.656	7.900	9.245	5.007	2.481	2.02	2.80		
					38	1.749	2.419	3.179	4.034	4.989	6.042	7.192	8.436						
					43	-	2.135	2.848	3.648	4.538	5.520	-	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	2.891	3.974	5.276	6.805	8.567	10.56	12.77	15.200					84	53
					32	2.605	3.619	4.834	6.259	7.901	9.759	11.83	14.100	7.043	3.072	2.29	3.43		
					38	2.253	3.185	4.295	5.595	7.092	8.790	10.69	12.770						
					43	-	2.816	3.838	5.034	6.411	7.977	-	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	3.183	4.369	5.789	7.451	9.355	11.500	13.860	16.450					83	52
					32	2.869	3.979	5.303	6.849	8.619	10.610	12.820	15.230	7.714	3.383	2.28	3.39		
					38	2.481	3.501	4.710	6.119	7.731	9.545	11.560	13.770						
					43	-	3.095	4.208	5.503	6.984	8.652	-	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	3.813	5.139	6.692	8.473	10.49	12.720	15.170	17.810					83	52
					32	3.392	4.628	6.076	7.738	9.621	11.720	14.020	16.510	8.707	3.882	2.24	3.26		
					38	2.912	4.036	5.355	6.877	8.603	10.530	12.650	14.930						
					43	-	3.564	4.777	6.177	7.768	9.547	-	-						

MBP

(1) E - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan

G - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan

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

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

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	1.599	2.077	2.626	3.247	3.939	4.697	5.514	6.385					74	43
					32	1.423	1.866	2.372	2.940	3.578	4.278	5.033	5.84	3.313	1.577	2.10			
					38	1.218	1.617	2.072	2.580	3.152	3.781	4.462	5.190						
					43	1.054	1.416	1.828	2.288	2.802	3.372	-	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	1.275	1.783	2.370	3.036	3.779	4.595	5.473	6.394					74	43
					32	1.104	1.580	2.126	2.742	3.429	4.181	4.991	5.840	3.110	1.487	2.09			
					38	0.896	1.332	1.827	2.384	3.002	3.680	4.409	5.182						
					43	0.724	1.124	1.577	2.084	2.646	3.262	-	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	2.048	2.573	3.221	4.007	4.942	6.031	7.284	8.735					74	43
					32	1.883	2.368	2.963	3.683	4.536	5.533	6.68	8.003	4.102	1.923	2.13			
					38	1.676	2.108	2.636	3.274	4.030	4.919	5.949	7.115						
					43	1.496	1.883	2.354	2.921	3.597	4.397	-	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	1.714	2.384	3.175	4.094	5.144	6.326	7.634	9.052					74	43
					32	1.475	2.111	2.856	3.715	4.694	5.792	7.005	8.318	4.178	1.900	2.20			
					38	1.188	1.781	2.466	3.250	4.138	5.133	6.230	7.417						
					43	0.953	1.505	2.137	2.856	3.667	4.574	-	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	2.556	3.252	4.084	5.058	6.174	7.434	8.841	10.410					74	43
					32	2.335	2.986	3.758	4.655	5.680	6.831	8.109	9.520	5.206	2.637	1.97	2.75		
					38	2.054	2.640	3.331	4.132	5.043	6.067	7.215	8.474						
					43	1.812	2.338	2.959	3.678	4.496	5.419								
OP-MCRN060	114X5793	A14	MTZ036	G	27	2.253	3.153	4.197	5.388	6.721	8.192	9.784	11.470					74	43
					32	1.955	2.797	3.768	4.871	6.105	7.463	8.934	10.490	5.514	2.634	2.09	2.90		
					38	1.591	2.361	3.243	4.241	5.353	6.578	7.904	9.3170						
					43	1.287	1.996	2.803	3.712	4.724	5.839	-	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	3.355	4.500	5.868	7.454	9.256	11.270	13.51	16.000					84	53
					32	3.020	4.092	5.367	6.841	8.512	10.380	12.46	14.760	7.662	3.290	2.33	3.03		
					38	2.602	3.579	4.736	6.069	7.578	9.269	11.15	13.230						
					43	2.243	3.137	4.191	5.404	6.776	8.315	-	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	3.692	4.950	6.445	8.173	10.13	12.300	14.690	17.350					83	52
					32	3.323	4.499	5.890	7.492	9.298	11.300	13.520	15.980	8.407	3.619	2.32	3.05		
					38	2.862	3.932	5.193	6.639	8.266	10.070	12.070	14.290						
					43	2.466	3.445	4.592	5.905	7.381	9.017	-	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	4.432	5.820	7.445	9.292	11.360	13.630	16.110	18.830					83	52
					32	3.947	5.238	6.743	8.457	10.370	12.480	14.790	17.330	9.505	4.141	2.30	3.01		
					38	3.374	4.544	5.908	7.456	9.187	11.100	13.190	15.510						
					43	2.905	3.978	5.219	6.627	8.201	9.939	-	-						

MBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	1.455	1.959	2.556	3.243	4.017	4.873	5.802	6.798					74	43
					32	1.279	1.741	2.287	2.917	3.630	4.418	5.278	6.200	3.071	1.519	2.02			
					38	1.076	1.484	1.969	2.531	3.167	3.874	4.648	5.481						
					43	-	1.277	1.710	2.212	2.784	3.423	-	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	2.979	1.959	2.556	3.243	4.017	4.873	5.802	6.798					74	43
					32	1.279	1.741	2.287	2.917	3.630	4.418	5.278	6.200	3.071	1.519	2.02			
					38	1.076	1.484	1.969	2.531	3.167	3.874	4.648	5.481						
					43	-	1.277	1.710	2.212	2.784	3.423	-	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	2.012	2.709	3.524	4.461	5.522	6.706	8.012	9.436					74	43
					32	1.750	2.397	3.154	4.024	5.010	6.112	7.330	8.661	4.225	2.028	2.08			
					38	1.451	2.038	2.722	3.510	4.405	5.407	6.518	7.735						
					43	-	1.750	2.373	3.091	3.908	4.826	-	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	2.012	2.709	3.524	4.461	5.522	6.706	8.012	9.436					74	43
					32	1.750	2.397	3.154	4.024	5.010	6.112	7.330	8.661	4.225	2.028	2.08			
					38	1.451	2.038	2.722	3.510	4.405	5.407	6.518	7.735						
					43	-	1.750	2.373	3.091	3.908	4.826	-	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	2.738	3.588	4.572	5.687	6.929	8.290	9.762	11.333					74	43
					32	2.450	3.238	4.146	5.174	6.317	7.570	8.926	10.376	5.448	2.707	2.01	2.85		
					38	2.104	2.817	3.634	4.555	5.579	6.702	7.919	9.222						
					43	-	2.465	3.205	4.037	4.961	5.975	-	-						
OP-MCRN060	114X5793	A14	MTZ036	G	27	2.738	3.588	4.572	5.687	6.929	8.290	9.762	11.333					74	43
					32	2.450	3.238	4.146	5.174	6.317	7.570	8.926	10.376	5.448	2.707	2.01	2.85		
					38	2.104	2.817	3.634	4.555	5.579	6.702	7.919	9.222						
					43	-	2.465	3.205	4.037	4.961	5.975	-	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	3.782	5.021	6.492	8.200	10.149	12.335	14.754	17.396					84	53
					32	3.338	4.474	5.823	7.393	9.189	11.211	13.453	15.911	7.759	3.283	2.36	3.34		
					38	2.837	3.849	5.051	6.456	8.067	9.889	11.919	14.153						
					43	-	3.352	4.432	5.697	7.154	8.808	-	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	3.925	5.245	6.814	8.640	10.727	13.071	15.668	18.506					83	52
					32	3.465	4.680	6.125	7.809	9.738	11.912	14.326	16.972	8.201	3.578	2.29	3.14		
					38	2.947	4.037	5.332	6.845	8.583	10.550	12.743	15.156						
					43	-	3.526	4.696	6.065	7.644	9.436	-	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	4.700	6.176	7.927	9.961	12.280	14.880	17.750	20.876					83	52
					32	4.171	5.537	7.154	9.033	11.178	13.588	16.254	19.166	9.500	4.287	2.22	3.07		
					38	3.551	4.780	6.233	7.923	9.856	12.035	14.456	17.108						
					43	-	4.159	5.472	7.002	8.757	10.742	-	-						

MBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version A14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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]	P [kW]	COP	SEPR		
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MCRN038	114X5790	A14	MTZ022	E	27	2.064	2.688	3.388	4.157	4.987	5.868	6.790					74	43
					32	1.855	2.444	3.101	3.821	4.597	5.420	6.281	2.475	1.300	1.90			
					38	-	2.154	2.760	3.422	4.133	4.886	-						
					43	-	1.919	2.482	3.094	3.751	4.445	-						
OP-MCRN038	114X5789	A14	MTZ022	G	27	1.985	2.618	3.338	4.136	5.004	5.931	6.907					74	43
					32	1.786	2.380	3.053	3.800	4.612	5.479	6.392	2.410	1.301	1.85			
					38	-	2.101	2.720	3.404	4.148	4.943	-						
					43	-	1.877	2.449	3.081	3.767	4.501	-						
OP-MCRN048	114X5792	A14	MTZ028	E	27	2.691	3.594	4.632	5.805	7.110	8.538	10.081					74	43
					32	2.432	3.289	4.270	5.375	6.601	7.942	9.391	3.323	1.619	2.05			
					38	-	2.918	3.830	4.852	5.984	7.220	-						
					43	-	2.606	3.460	4.414	5.467	6.617	-						
OP-MCRN048	114X5791	A14	MTZ028	G	27	2.628	3.553	4.612	5.796	7.097	8.501	9.993					74	43
					32	2.380	3.256	4.251	5.359	6.573	7.882	9.272	3.289	1.655	1.99			
					38	-	2.896	3.819	4.840	5.953	7.149	-						
					43	-	2.591	3.458	4.409	5.440	6.545	-						
OP-MCRN060	114X5794	A14	MTZ036	E	27	3.729	4.757	5.914	7.190	8.574	10.052	11.610					74	43
					32	3.415	4.387	5.474	6.669	7.961	9.339	10.792	4.440	2.258	1.97			
					38	-	3.939	4.946	6.046	7.231	8.491	9.817						
					43	-	3.560	4.503	5.526	6.623	7.787	9.008						
OP-MCRN060	114X5793	A14	MTZ036	G	27	3.599	4.677	5.894	7.243	8.711	10.287	11.954					74	43
					32	3.256	4.280	5.431	6.702	8.083	9.563	11.128	4.330	2.219	1.95			
					38	-	3.794	4.867	6.047	7.325	8.692	-						
					43	-	3.378	4.389	5.495	6.688	7.962	-						
OP-MCRN086	114X5795	A14	MTZ050	E	27	5.009	6.504	8.229	10.181	12.351	14.725	17.285					84	53
					32	4.553	5.959	7.576	9.404	11.435	13.660	16.061	6.024	2.810	2.14	2.89		
					38	-	5.305	6.795	8.475	10.341	12.385	-						
					43	-	4.761	6.146	7.704	9.433	11.329	-						
OP-MCRN096	114X5796	A14	MTZ056	E	27	5.360	7.008	8.912	11.068	13.461	16.074	18.884					83	52
					32	4.868	6.424	8.216	10.241	12.489	14.944	17.586	6.497	3.026	2.15	3.00		
					38	-	5.723	7.380	9.248	11.319	13.584	-						
					43	-	5.142	6.685	8.421	10.346	12.451	-						
OP-MCRN108	114X5797	A14	MTZ064	E	27	6.307	8.073	10.102	12.388	14.916	17.666	20.613					83	52
					32	5.745	7.402	9.307	11.453	13.828	16.416	19.193	7.494	3.488	2.15	3.01		
					38	-	6.614	8.364	10.338	12.527	14.916	-						
					43	-	5.977	7.594	9.421	11.451	13.672	-						

MBP**(1) E** - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan**G** - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan**(2)** Nominal conditions (EN13215), Evaporating temperatures at dew point, Superheat 10K, Subcooling 0K**(3)** Rated conditions (EN13215), Evaporating temperature Midpoint -10°C, Ambient air temperature +32°C, Return Gas Temperature 20°C, Subcooling 0K

COP: Coefficient Of Performance link to EN13215 and ErP (Energy related Products) 2009/125/CE

SEPR: Seasonal Energy Performance Ratio link to EN13215 and ErP (Energy Related Products) 2009/125/CE

Tamb [°C]: Ambient Temperature

Te [°C]: Evaporating Temperature

Q [kW]: Cooling Capacity in Kilo Watt

P [kW]: Power Input in Kilo Watt

Version 14: Filter drier + Sight glass + Receiver + Stop valves + KP17WB pressure switch + Electrical boxFor 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	Chassis	Height	Width	Length	Suction valve	Liquid valve	Gross	Net
							(m²/h)	(dm³)						(mm)	(L)	mm	mm	mm		
LBP	114X5784	OP-LCQN068NTA14E	NTZ068	E	Q	D7	3550	0.6	1	450	5.2	C	705	900	900	5/8"	1/2"	88	78	
LBP	114X5783	OP-LCQN068NTA14G	NTZ068	G	Q	D7	3550	0.6	1	450	5.2	C	705	900	900	5/8"	1/2"	88	78	
LBP	114X5785	OP-LGQN096NTA14E	NTZ096	E	Q	N8	3450	1.54	2	350	7.3	B	693.5	1500	870	7/8"	1/2"	127	105	
LBP	114X5786	OP-LCQN108NTA14E	NTZ108	E	Q	G7	4300	1.62	1	500	7.3	D	836.5	1200	800	7/8"	1/2"	120	103	
LBP	114X5787	OP-LCQN136NTA14E	NTZ136	E	Q	G7	4300	1.62	1	500	7.3	D	836.5	1200	800	7/8"	1/2"	120	103	
LBP	114X5788	OP-LGQN215NTA14E	NTZ215	E	Q	J7	10700	1.97	2	560	14	E	836.5	1500	870	11/8"	5/8"	192	170	
MBP	114X5789	OP-MCRN038MTA14G	MTZ022	G	R	A7	1550	0.4	1	350	3	F	545	900	900	1/2"	3/8"	62	52	
MBP	114X5790	OP-MCRN038MTA14E	MTZ022	E	R	A7	1550	0.4	1	350	3	F	545	900	900	1/2"	3/8"	62	52	
MBP	114X5792	OP-MCRN048MTA14E	MTZ028	E	R	D7	3550	0.6	1	450	5.2	C	705	900	900	1/2"	1/2"	87	77	
MBP	114X5791	OP-MCRN048MTA14G	MTZ028	G	R	D7	3550	0.6	1	450	5.2	C	705	900	900	1/2"	1/2"	87	77	
MBP	114X5794	OP-MCRN060MTA14E	MTZ036	E	R	D7	4180	0.6	1	500	5.2	C	705	900	900	5/8"	1/2"	92	82	
MBP	114X5793	OP-MCRN060MTA14G	MTZ036	G	R	D7	4180	0.6	1	500	5.2	C	705	900	900	5/8"	1/2"	92	82	
MBP	114X5795	OP-MCRN086MTA14E	MTZ050	E	R	G7	4300	1.62	1	500	7.3	D	836.5	1200	800	7/8"	1/2"	122	105	
MBP	114X5796	OP-MCRN096MTA14E	MTZ056	E	R	G7	4300	1.62	1	500	7.3	D	836.5	1200	800	7/8"	1/2"	124	107	
MBP	114X5797	OP-MCRN108MTA14E	MTZ064	E	R	G7	4300	1.62	1	500	7.3	D	836.5	1200	800	7/8"	1/2"	124	107	

(1) E - 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan

G - 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan

(2) R - R134a, R404A/R507, R407A, R407C, R407F, R448A/R449A, R452A, R134a/R513A

Q - R404A/R507, R452A

Designation	OP-LCQN068	OP-LCQN068	OP-LGQN096	OP-LCQN108	OP-LCQN136	OP-LGQN215
Code Number	114X5784	114X5783	114X5785	114X5786	114X5787	114X5788
Compressor Description	NTZ068-4B	NTZ068-5B	NTZ096-4B	NTZ108-4B	NTZ136-4B	NTZ215-4B
Condenser coil type	D7	D7	N8	G7	G7	J7
Electrical Code	E	G	E	E	E	E
Refrigerant	Q	Q	Q	Q	Q	Q
Oil	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE
Version	A14	A14	A14	A14	A14	A14
Spare Parts						
Compressor single pack	120F0230	120F0232	120F0234	120F0238	120F0236	120F0240
Condenser	118U5218	118U5218	118U1004	118U5219	118U5219	118U5220
Crankcase heater	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459
Contacteur	118U5262	118U5261	118U5263	118U5263	118U5263	118U5261
Dual pressure switch	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766
Fan assembly	118U0391	118U0391	118U0390	118U0392	118U0392	118U0393
Filter drier type	023Z5061	023Z5061	023Z5061	023Z5061	023Z5061	023Z8067
Receiver	8168180	8168180	8168181	8168181	8168181	8168183
Rotalock valve discharge	7968013	7968013	7968014	7968014	7968014	7968015
Rotalock valve suction	7968014	7968014	7968017	7968017	7968017	7968018
Sight glass	014L0183	014L0183	014L0183	014L0183	014L0183	014L0183
Overload Relay	118U5266	118U5265	118U5267	118U5268	118U5268	118U5269
Discharge gas thermostat*	7750009	7750009	7750009	7750009	7750009	7750009
Fan speed controller*	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144
Electrical Characteristics						
MCC Compressor (A)	8.4	17	10.1	12.1	14.3	22.3
LRA compressor (A)	25	53	32	45	51	74
MCC Fan (A)	0.82	0.82	2 X 0.43	1.22	1.22	2 X 2.23
Fan power (W)	155	155	2 X 75	220	220	2 X 390

MCC - Max Continuous Current

LRA - Locked Rotor Amps

FSC - Fan Speed Controller

Electrical code

E : 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan

G : 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan

* Not Premounted

Designation	OP-MCRN038	OP-MCRN038	OP-MCRN048	OP-MCRN048	OP-MCRN060	OP-MCRN060	OP-MCRN086	OP-MCRN096	OP-MCRN108
Code Number	114X5789	114X5790	114X5792	114X5791	114X5794	114X5793	114X5795	114X5796	114X5797
Compressor Description	MTZ022-5	MTZ022-4	MTZ028-4	MTZ028-5	MTZ036-4	MTZ036-5	MTZ050-4	MTZ056-4	MTZ064-4
Condenser coil type	A7	A7	D7	D7	D7	D7	G7	G7	G7
Electrical Code	G	E	E	G	E	G	E	E	E
Refrigerant	R	R	R	R	R	R	R	R	R
Oil	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE	175PZ - POE
Version	A14	A14	A14	A14	A14	A14	A14	A14	A14
Spare Parts									
Compressor single pack	MTZ22-5VI	MTZ22-4VI	MTZ28-4VI	MTZ28-5VI	MTZ36-4VI	MTZ36-5VI	MTZ50-4VI	MTZ56-4VI	MTZ64-4VI
Condenser	118U5217	118U5217	118U5218	118U5218	118U5218	118U5218	118U5219	118U5219	118U5219
Crankcase heater	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459
Contact	118U5261	118U5264	118U5264	118U5261	118U5262	118U5261	118U5263	118U5263	118U5263
Dual pressure switch	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766
Fan assembly	118U0390	118U0390	118U0391	118U0391	118U0392	118U0392	118U0392	118U0392	118U0392
Filter drier type	023Z5058	023Z5058	023Z5061	023Z5061	023Z8067	023Z8067	023Z8067	023Z8067	023Z8067
Receiver	8168179	8168179	8168180	8168180	8168180	8168180	8168181	8168181	8168181
Rotalock valve discharge	7968019	7968019	7968013	7968013	7968013	7968013	7968013	7968014	7968014
Rotalock valve suction	7968013	7968013	7968013	7968013	7968014	7968014	7968017	7968017	7968017
Sight glass	014L0182	014L0182	014L0183	014L0183	014L0183	014L0183	014L0183	014L0183	014L0183
Overload Relay	118U5265	118U5270	118U5270	118U5271	118U5266	118U5269	118U5268	118U5268	118U5268
Discharge gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Fan speed controller	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144	061H3144
Electrical Characteristics									
MCC Compressor (A)	15	6	7.5	20	9	22	12	12.5	13.5
LRA compressor (A)	41	20	29	51	38	60	47	64	64
MCC Fan (A)	0.43	0.43	0.82	0.82	1.22	1.22	1.22	1.22	1.22
Fan power (W)	75	75	155	155	220	220	220	220	220

MCC - Max Continuous Current

LRA - Locked Rotor Amps

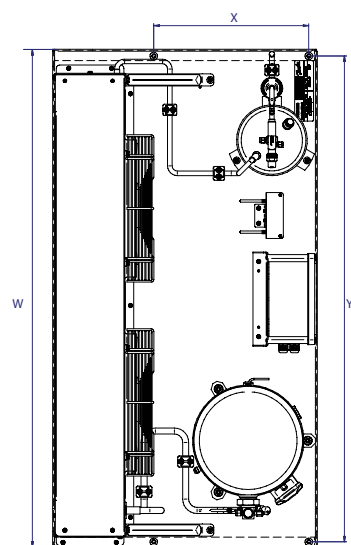
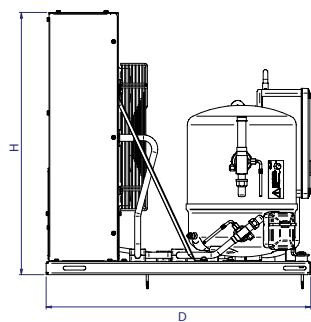
FSC - Fan Speed Controller

Electrical code

E : 400V-3ph-50Hz Compressor & 230V-1ph-50Hz Fan

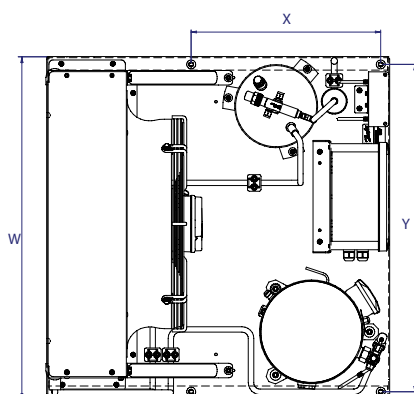
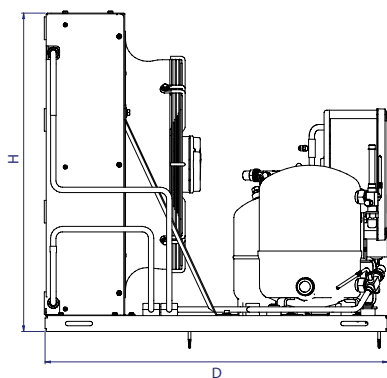
G : 230V-1ph-50Hz Compressor & 230V-1ph-50Hz Fan

Chassis B (Two Fan)



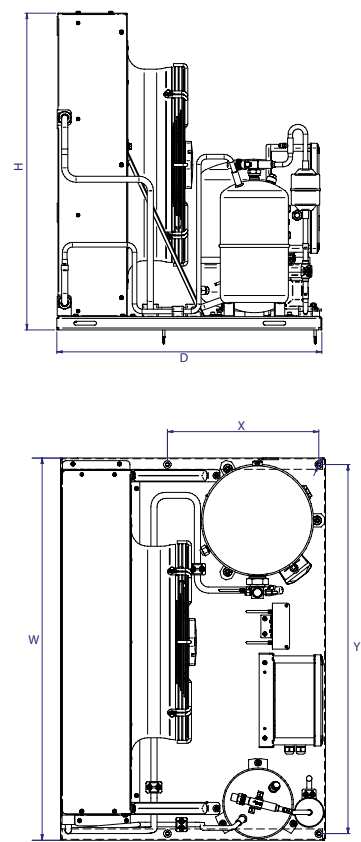
S.No	Application	Description	Units	Compressor	H	W	D	X	Y
1	LBP	OP-LGQN096NTA14E	114X5785	NTZ096	694	1320	700	410	1285

Chassis C (Single Fan)



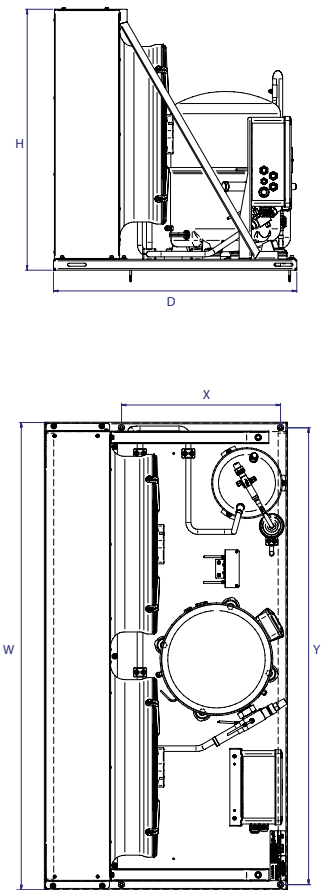
S.No	Application	Description	Units	Compressor	H	W	D	X	Y
1	MBP	OP-MCRN048MTA14E	114X5792	MTZ028	705	760	760	420	725
2	MBP	OP-MCRN048MTA14G	114X5791						
3	MBP	OP-MCRN060MTA14E	114X5794	MTZ036					
4	MBP	OP-MCRN060MTA14G	114X5793						
5	LBP	OP-LCQN068NTA14E	114X5784	NTZ068					
6	LBP	OP-LCON068NTA14G	114X5783						

Chassis D (Single Fan)



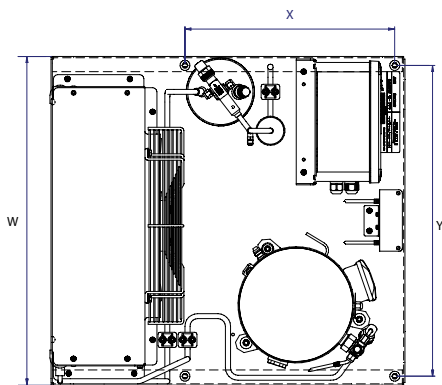
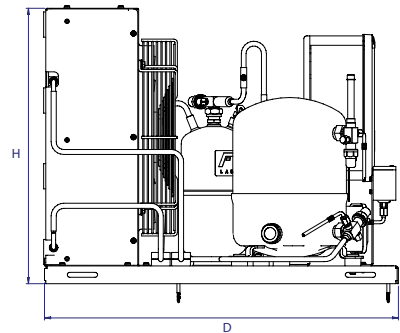
S.No	Application	Description	Units	Compressor	H	W	D	X	Y
3	MBP	OP-MCRN086MTA14E	114X5795	MTZ050					
5	MBP	OP-MCRN096MTA14E	114X5796	MTZ056					
7	MBP	OP-MCRN108MTA14E	114X5797	MTZ064	836.5	1010	700	400	975
12	LBP	OP-LCQN108NTA14E	114X5786	NTZ108					
14	LBP	OP-LCQN136NTA14E	114X5787	NTZ136					

Chassis E (Two Fan)



S.No	Application	Description	Units	Compressor	H	W	D	X	Y
1	LBP	OP-LGQN215NTA14E	114X5788	NTZ215	836.5	1500	780	510	1465

Chassis F (Single Fan)



S.No	Application	Description	Units	Compressor	H	W	D	X	Y
1	MBP	OP-MCRN038MTA14G	114X5789		545	650	700	415	615
2	MBP	OP-MCRN038MTA14E	114X5790						

Component type	Component code	Component description	Additional informations
Compressor single pack	MTZ22-5VI	MTZ22-5VI, COMPRESSOR VERSION EGALISATION	
Compressor single pack	MTZ22-4VI	MTZ22-4VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ28-4VI	MTZ28-4VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ28-5VI	MTZ28-5VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ36-4VI	MTZ36-4VI,COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ36-5VI	MTZ36-5VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ50-4VI	MTZ50-4VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ56-4VI	MTZ56-4VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	MTZ64-4VI	MTZ64-4VI, COMP OSG-EQUAL MULTIREF	
Compressor single pack	120F0230	NTZ068-4LR1-SINGLE	
Compressor single pack	120F0232	NTZ068-5LR1-SINGLE	
Compressor single pack	120F0234	NTZ096-4LR1-SINGLE	
Compressor single pack	120F0238	NTZ108-4LR1-SINGLE	
Compressor single pack	120F0236	NTZ136-4LR1- RECIP	
Compressor single pack	120F0240	NTZ215-4LR1-SINGLE RECIP COMP	
Condenser	118U5217	Spare part, 9513 B1, H1, A7 MCHX	
Condenser	118U5218	Spare part, 9513 B2,H2, D7 MCHX	
Condenser	118U5219	Spare part, 9513 B3,H3, G7 MCHX	
Condenser	118U5220	Spare part, 9513 H4, J7 MCHX	
Condenser	118U1004	CONDENSER COIL MCHX N8	
Crankcase heater	120Z0459	PTC Crankcase heater	
Contacteur	118U5261	3RT2026-1AL20 25 A	
Contacteur	118U5262	3RT2024-1AL20 12 A	
Contacteur	118U5263	3RT2025-1AL20 16 A	
Contacteur	118U5264	3RT2016-1AP01 9 A	
Dual pressure switch	060-539766	KP17WB Switch	
Fan assembly	118U0390	Fan assembly Ø350- 6 Pole, 230/1/50-60	
Fan assembly	118U0391	Fan assembly Ø450-6 Pole, 230/1/50-60	
Fan assembly	118U0392	Fan assembly Ø500-6 Pole, 230/1/50-60	
Fan assembly	118U0393	Fan assembly Ø560-6 Pole, 230/1/50-60	
Discharge gas thermostat	7750009	DISCHARGE THERMOSTAT KIT	
Fan speed controller	061H3144	XGE-2C	
Filter drier (Multipack)	023Z5058	DML 083S M/24	
Filter drier (Multipack)	023Z5061	DML 084S M/24	
Filter drier (Multipack)	023Z8067	DML 164S I/12	
Oil	120Z0638	LUBRICANT 175PZ-1L CAN	
Oil	120Z0639	LUBRICANT 175PZ-2.5L CAN	
Overload Relay	118U5265	3RU2126-4BB0 13-20 A	
Overload Relay	118U5266	3RU2126-1JB0 7-10 A	
Overload Relay	118U5267	3RU2126-1KB0 9-12,5 A	
Overload Relay	118U5268	3RU2126-4AB0 11-16 A	
Overload Relay	118U5269	3RU2126-4DB0 20-25 A	
Overload Relay	118U5270	3RU2116-1HB0 5,5-8 A	
Overload Relay	118U5271	3RU2126-4CB0 17-22 A	
Receiver	8168179	LIQUID RECEIVER 3L R032	
Receiver	8168180	LIQUID RECEIVER 6L R061	
Receiver	8168181	LIQUID RECEIVER 8L R076	
Receiver	8168183	LIQUID RECEIVER 14L R141	
Rotalock valve discharge	7968019	ROTALOCK valve 1" - 3/8"	
Rotalock valve discharge	7968013	ROTALOCK VALVE 1" - 1/2"	
Rotalock valve discharge	7968014	ROTALOCK VALVE 1 1/4" - 5/8"	
Rotalock valve discharge	7968015	ROTALOCK VALVE 1 1/4" - 3/4"	
Rotalock valve suction	7968017	ROTALOCK VALVE 1 3/4" - 7/8"	
Rotalock valve suction	7968018	ROTALOCK valve 1+3/4" - 1+1/8"	
Sight glass (Multipack)	014-0182	SGN10s	
Sight glass (Multipack)	014-0183	SGN12s	

Notes:

Optyma™ Slim Pack

Light on **refrigerant**, heavy on **efficiency**

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



Quick and safe installation and service

Same serviceable units, upgraded for A2L refrigerants. Ignition proof tested in TÜV laboratory.



High SEPR*

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



A2L

Multi-refrigerants units for complexity reduction, available with new code numbers.



Suitable for residential areas

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

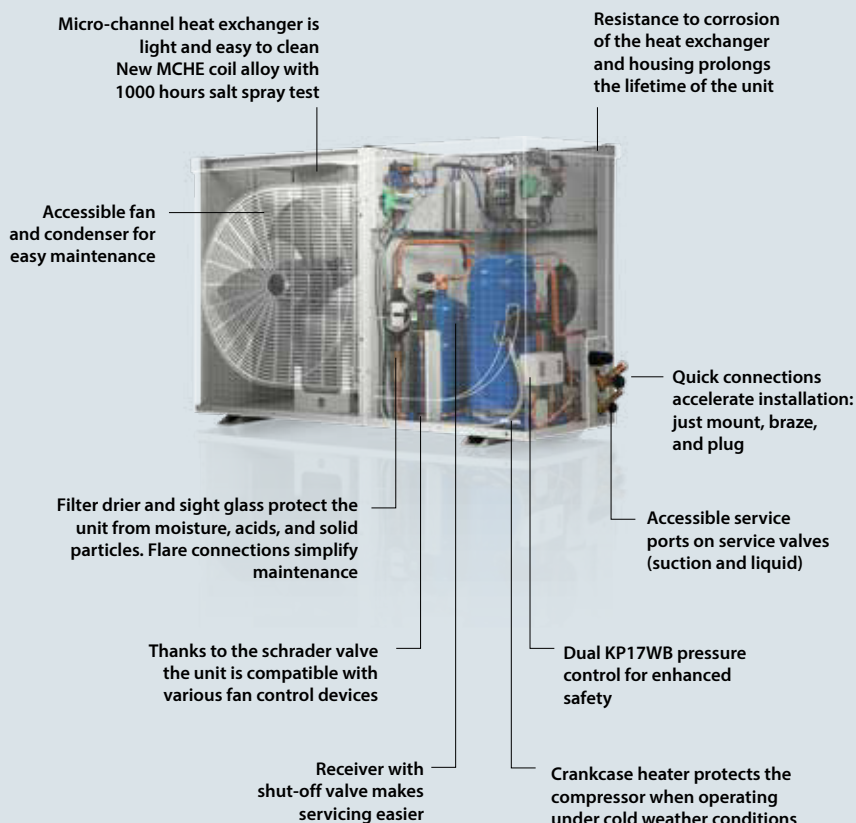


Optimized footprint for floor and wall mounting

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



Standard range (W10)



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:

AUSTRALIA: \$0.23/1KWH= 2391 X 0.23=\$549

\$549 annual electricity savings made
by your customer in Germany

* Source: Danfoss

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-25°C		
OP-LPQE048NT	114X7171	G	NTZ048-5	32	0.75	1.113	1.542	2.039	2.602	3.232	3.924	1.556	76	44
				38	0.619	0.951	1.339	1.786	2.291	2.854	3.471	1.577		
	114X7172	E	NTZ048-4	43	0.509	0.815	1.17	1.576	2.034	2.542	3.098	1.58		
OP-LPQE068NT	114X7173	G	NTZ068-5	32	1.335	1.845	2.437	3.11	3.863	4.689	5.578	2.242	77	46
				38	1.139	1.604	2.139	2.746	3.423	4.166	4.966	2.323		
	114X7174	E	NTZ068-4	43	0.990	1.418	1.907	2.461	3.077	3.753	4.481	2.389		
OP-LPQE067LL	114X7175	E	LLZ013T4	32	2.024	2.600	3.276	4.061	4.965	5.997	7.163	2.874	76	45
				38	1.790	2.319	2.934	3.645	4.462	5.395	6.451	3.088		
				43	1.586	2.073	2.634	3.280	4.022	4.870	5.832	3.287		
OP-LPQE084LL	114X7176	E	LLZ015T4	32	2.440	3.110	3.909	4.848	5.936	7.178	8.580	3.431	75	44
				38	2.171	2.777	3.494	4.332	5.303	6.412	7.667	3.663		
				43	1.935	2.485	3.130	3.883	4.754	5.751	6.882	3.877		
OP-LPQE098LL	114X7177	E	LLZ018T4	32	2.837	3.608	4.524	5.594	6.825	8.221	9.785	3.908	76	45
				38	2.519	3.216	4.035	4.987	6.082	7.324	8.719	4.174		
				43	2.241	2.871	3.607	4.459	5.438	6.550	7.802	4.420		

LBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50 Hz**(2)** Test condition EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

LLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-25°C		
OP-LPQE048NT	114X7171	G	NTZ048-5	32	0.67	0.981	1.33	1.714	2.126	2.555	2.988	1.54	76	44
				38	-	0.833	1.155	1.503	1.871	2.252	2.633	1.546		
	114X7172	E	NTZ048-4	43	-	-	1.006	1.326	-	-	-	1.539		
OP-LPQE068NT	114X7173	G	NTZ068-5	32	1.207	1.655	2.171	2.751	3.385	4.052	4.716	2.008	77	46
				38	-	1.435	1.902	2.423	2.989	3.583	4.173	2.095		
	114X7174	E	NTZ068-4	43	-	-	1.678	2.152	-	-	-	2.173		
OP-LPQE067LL	114X7175	E	LLZ013T4	32	1.791	2.303	2.926	3.672	4.550	5.567	6.730	2.683	76	45
				38	1.638	2.092	2.646	3.313	4.103	5.025	6.085	2.852		
				43	1.514	1.917	2.412	3.011	3.725	4.564	5.536	2.977		
OP-LPQE084LL	114X7176	E	LLZ015T4	32	2.220	2.816	3.521	4.347	5.302	6.393	7.626	3.331	75	44
				38	1.992	2.528	3.161	3.903	4.765	5.755	6.878	3.56		
				43	1.798	2.280	2.849	3.519	4.299	5.200	6.228	3.735		
OP-LPQE098LL	114X7177	E	LLZ018T4	32	2.587	3.281	4.093	5.034	6.112	7.333	8.698	3.926	76	45
				38	2.313	2.937	3.665	4.509	5.479	6.581	7.818	4.205		
				43	2.078	2.639	3.294	4.053	4.929	5.928	7.055	4.423		

LBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50 Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50 Hz**(2)** Test condition EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

LLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	-5°C		
OP-MPVE034ML	114X7163	G	MLZ015T5	32	2.531	3.058	3.654	4.319	5.054	5.863	6.752	1.926	71	40
				38	2.286	2.764	3.304	3.905	4.572	5.306	6.115	2.147		
				43	2.074	2.51	3.003	3.552	4.161	4.833	-	2.327		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	3.347	4.031	4.789	5.625	6.544	7.551	8.653	2.486	72	41
	114X7164	E	MLZ021T4	38	3.005	3.622	4.3	5.046	5.868	6.77	7.761	2.79		
				43	2.696	3.256	3.867	4.538	5.278	6.093	6.993	3.078		
OP-MPVE057ML	114X7165	G	MLZ026T5	32	4.067	4.896	5.818	6.82	7.884	8.978	10.067	3.188	73	42
	114X7166	E	MLZ026T4	38	3.694	4.434	5.251	6.138	7.08	8.053	9.027	3.601		
				43	3.383	4.049	4.783	5.577	6.421	7.296	8.177	3.977		
OP-MPVE068ML	114X7214	G	MLZ030T5	32	4.832	5.926	7.177	8.594	10.185	11.954	13.907	3.347	74	43
	114X7167	E	MLZ030T4	38	4.284	5.279	6.418	7.711	9.170	10.803	12.618	3.772		
				43	3.809	4.717	5.758	6.945	8.291	9.806	11.506	4.177		
OP-MPVE080ML	114X7215	G	MLZ038T5	32	5.708	6.948	8.353	9.930	11.682	13.612	15.720	3.948	75	44
	114X7168	E	MLZ038T5	38	5.026	6.146	7.415	8.842	10.434	12.197	14.137	4.465		
				43	4.423	5.435	6.584	7.881	9.335	10.956	12.755	4.958		
OP-MPVE099ML	114X7169	E	MLZ045T4	32	6.643	8.055	9.648	11.422	13.379	15.521	17.853	5.141	75	44
				38	5.823	7.082	8.508	10.106	11.880	13.836	15.989	5.768		
				43	5.100	6.228	7.513	8.960	10.580	12.381	14.387	6.361		
OP-MPVE108ML	114X7170	E	MLZ048T4	32	7.147	8.653	10.321	12.168	14.209	16.459	18.932	5.611	77	46
				38	6.248	7.596	9.087	10.742	12.581	14.623	16.892	6.316		
				43	5.457	6.671	8.012	9.504	11.172	13.041	15.144	6.987		

MBP

(1) **G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz
E - Compressor 400V/3N~/50Hz, fan 230V/1~/50Hz
(2) Test condition EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	-5°C		
OP- MPVE034ML	114X7163	G	MLZ015T5	32	1.753	2.25	2.813	3.451	4.168	4.974	5.873	1.155	74	43
				38	1.621	2.088	2.623	3.233	3.925	4.706	5.58	1.257		
				43	1.515	1.951	2.458	3.041	3.706	4.461	5.311	1.354		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	2.402	3.013	3.743	4.599	5.583	6.698	7.945	1.393	75	44
	114X7164	E	MLZ021T4	38	2.232	2.807	3.495	4.302	5.233	6.288	7.471	1.538		
				43	2.088	2.63	3.281	4.047	4.931	5.936	7.064	1.671		
OP-MPVE057ML	114X7165	G	MLZ026T5	32	2.915	3.685	4.584	5.623	6.81	8.152	9.654	1.666	76	45
	114X7166	E	MLZ026T4	38	2.7	3.426	4.275	5.256	6.378	7.649	9.073	1.85		
				43	2.521	3.207	4.01	4.94	6.006	7.215	8.572	2.018		
OP-MPVE068ML	114X7214	G	MLZ030T5	32	3.484	4.382	5.437	6.657	8.048	9.614	11.357	1.953	74	43
	114X7167	E	MLZ030T4	38	3.240	4.078	5.066	6.213	7.524	9.005	10.657	2.175		
				43	3.037	3.820	4.748	5.831	7.073	8.480	10.053	2.38		
OP-MPVE080ML	114X7215	G	MLZ038T5	32	4.029	5.086	6.307	7.704	9.282	11.048	13.001	2.395	75	44
	114X7168	E	MLZ038T4	38	3.718	4.713	5.863	7.176	8.663	10.326	12.170	2.67		
				43	3.454	4.396	5.482	6.724	8.130	9.707	11.457	2.921		
OP-MPVE099ML	114X7169	E	MLZ045T4	32	5.018	6.290	7.806	9.553	11.514	13.674	16.016	2.719	75	44
				38	4.645	5.822	7.239	8.880	10.731	12.775	14.994	3.041		
				43	4.337	5.425	6.750	8.297	10.049	11.990	14.101	3.339		
OP-MPVE108ML	114X7170	E	MLZ048T4	32	5.298	6.641	8.223	10.033	12.062	14.299	16.730	2.954	77	46
				38	4.889	6.140	7.620	9.323	11.236	13.349	15.649	3.301		
				43	4.548	5.714	7.104	8.709	10.520	12.525	14.711	3.618		

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50Hz**(2)** Test condition EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)						P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)	
	Version W10				Te [°C]									
					-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C			-5°C
OP- MPVE034ML	114X7163	G	MLZ015T5	32	1.881	2.326	2.852	3.468	4.181	4.995	5.927	1.193	74	43
				38	1.75	2.166	2.654	3.222	3.877	4.624	5.494	1.304		
				43	1.639	2.03	2.485	3.013	3.62	4.312	5.126	1.407		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	2.581	3.191	3.899	4.71	5.628	6.654	7.812	1.483	75	44
	114X7164	E	MLZ021T4	38	2.377	2.951	3.612	4.366	5.216	6.164	7.256	1.645		
				43	2.203	2.746	3.366	4.071	4.865	5.748	6.778	1.795		
OP-MPVE057ML	114X7165	G	MLZ026T5	32	3.166	3.924	4.792	5.774	6.872	8.081	9.441	1.752	76	45
	114X7166	E	MLZ026T4	38	2.901	3.618	4.432	5.348	6.367	7.486	8.772	1.959		
				43	2.675	3.354	4.121	4.98	5.933	6.982	8.192	2.156		
OP-MPVE068ML	114X7214	G	MLZ030T5	32	3.750	4.646	5.697	6.918	8.321	9.913	11.700	1.999	74	43
	114X7167	E	MLZ030T4	38	3.443	4.285	5.269	6.411	7.723	9.215	10.894	2.218		
				43	3.178	3.971	4.896	5.969	7.203	8.609	10.197	2.426		
OP-MPVE080ML	114X7215	G	MLZ038T5	32	4.380	5.410	6.614	8.007	9.600	11.400	13.412	2.281	75	44
	114X7168	E	MLZ038T4	38	4.011	4.975	6.099	7.398	8.884	10.568	12.454	2.549		
				43	3.694	4.601	5.655	6.872	8.267	9.850	11.630	2.807		
OP-MPVE099ML	114X7169	E	MLZ045T4	32	5.347	6.604	8.064	9.740	11.641	13.772	16.133	2.928	75	44
				38	4.890	6.066	7.425	8.982	10.748	12.731	14.933	3.273		
				43	4.497	5.602	6.874	8.329	9.980	11.837	13.906	3.604		
OP-MPVE108ML	114X7170	E	MLZ048T4	32	5.659	7.007	8.569	10.359	12.387	14.658	17.173	3.196	77	46
				38	5.137	6.402	7.862	9.534	11.429	13.556	15.919	3.574		
				43	4.691	5.882	7.254	8.823	10.604	12.608	14.842	3.928		

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50 Hz**(2)** Test condition EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	-5°C		
OP- MPVE034ML	114X7163	G	MLZ015T5	32	2.217	2.763	3.386	4.089	4.875	5.766	6.755	1.786	74	43
				38	2.036	2.539	3.112	3.757	4.486	5.309	6.224	2		
				43	-	2.351	2.881	3.477	4.151	4.916	-	2.208		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	3.017	3.75	4.586	5.526	6.577	7.762	9.075	2.354	75	44
				38	2.744	3.418	4.182	5.042	6.016	7.11	8.323	2.683		
	114X7164	E	MLZ021T4	43	-	3.137	3.842	4.633	5.53	6.545	-	3.002		
OP-MPVE057ML	114X7165	G	MLZ026T5	32	3.677	4.599	5.633	6.78	8.061	9.48	11.037	2.955	76	45
				38	3.298	4.153	5.105	6.16	7.347	8.656	10.093	3.381		
	114X7166	E	MLZ026T4	43	-	3.773	4.655	5.628	6.723	7.938	-	3.785		
OP-MPVE068ML	114X7214	G	MLZ030T5	32	4.483	5.557	6.782	8.171	9.733	11.480	13.400	3.257	74	43
				38	4.010	5.001	6.132	7.417	8.867	10.490	12.290	3.718		
	114X7167	E	MLZ030T4	43	-	4.515	5.563	6.757	8.109	9.629	11.330	4.192		
OP-MPVE080ML	114X7215	G	MLZ038T5	32	5.212	6.431	7.810	9.360	11.090	12.990	15.080	3.880	75	44
				38	4.665	5.785	7.052	8.478	10.070	11.840	13.780	4.442		
	114X7168	E	MLZ038T4	43	-	5.226	6.394	7.713	9.192	10.840	12.650	5.002		
OP-MPVE099ML	114X7169	E	MLZ045T4	32	6.342	7.876	9.600	11.525	13.656	15.995	18.537	4.879	75	44
				38	5.692	7.092	8.663	10.419	12.367	14.513	16.859	5.596		
				43	-	6.412	7.848	9.456	11.247	13.228	15.406	6.305		
OP-MPVE108ML	114X7170	E	MLZ048T4	32	6.775	8.377	10.182	12.201	14.439	16.897	19.572	5.478	77	46
				38	6.050	7.513	9.161	11.008	13.061	15.326	17.804	6.300		
				43	-	6.764	8.274	9.971	11.865	13.964	16.275	7.116		

MBP**(1) G** -Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50 Hz**(2)** Test conditon EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]									
					-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	-5°C		
OP- MPVE034ML	114X7163	G	MLZ015T5	32	2.217	2.763	3.386	4.089	4.875	5.766	6.755	1.786	74	43
				38	2.036	2.539	3.112	3.757	4.486	5.309	6.224	2		
				43	-	2.351	2.881	3.477	4.151	4.916	-	2.208		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	3.017	3.75	4.586	5.526	6.577	7.762	9.075	2.354	75	44
	114X7164	E	MLZ021T4	38	2.744	3.418	4.182	5.042	6.016	7.11	8.323	2.683		
				43	-	3.137	3.842	4.633	5.53	6.545	-	3.002		
OP-MPVE057ML	114X7165	G	MLZ026T5	32	3.677	4.599	5.633	6.78	8.061	9.48	11.037	2.955	76	45
	114X7166	E	MLZ026T4	38	3.298	4.153	5.105	6.16	7.347	8.656	10.093	3.381		
				43	-	3.773	4.655	5.628	6.723	7.938	-	3.785		
OP-MPVE068ML	114X7214	G	MLZ030T5	32	4.475	5.548	6.773	8.163	9.727	11.472	13.402	3.256	74	43
	114X7167	E	MLZ030T4	38	4.001	4.992	6.123	7.409	8.860	10.486	12.292	3.717		
				43	-	4.505	5.553	6.748	8.102	9.625	11.326	4.191		
OP-MPVE080ML	114X7215	G	MLZ038T5	32	5.202	6.420	7.800	9.351	11.080	12.990	15.081	3.879	75	44
	114X7168	E	MLZ038T4	38	4.654	5.774	7.041	8.469	10.064	11.833	13.779	4.441		
				43	-	5.214	6.383	7.703	9.183	10.832	12.654	5.001		
OP-MPVE099ML	114X7169	E	MLZ045T4	32	6.327	7.860	9.585	11.512	13.646	15.989	18.537	4.878	75	44
				38	5.676	7.076	8.648	10.405	12.357	14.507	16.859	5.594		
				43	-	6.396	7.833	9.443	11.237	13.222	15.406	6.303		
OP-MPVE108ML	114X7170	E	MLZ048T4	32	6.758	8.360	10.166	12.187	14.428	16.891	19.572	5.476	77	46
				38	6.033	7.496	9.145	10.994	13.050	15.319	17.804	6.298		
				43	-	6.748	8.258	9.957	11.854	13.958	16.275	7.113		

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3N~/50Hz, fan 230V/1~/50 Hz**(2)** Test conditon EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

Performance with SH=10K & SC=0K

Unit	Code number	Electrical code (1)	Compressor	Tamb [°C]	Cooling capacity Q [kW] (2)							P [kW]	Sound power level dB(A)	Sound pressure level @ 10m dB(A)
	Version W10				Te [°C]						-5°C			
					-20°C	-15°C	-10°C	-5°C	0°C	5°C		10°C		
OP- MPVE034ML	114X7163	G	MLZ015T4	32	2.448	2.996	3.622	4.326	5.106	5.956	6.877	1.826	74	43
				38	2.247	2.743	3.309	3.944	4.649	5.417	6.262	2.037		
				43	2.078	2.529	3.043	3.621	4.262	4.962	5.729	2.233		
OP-MPVE046ML	114X7213	G	MLZ021T5	32	3.278	4.031	4.884	5.838	6.888	8.021	9.229	2.338	75	44
	114X7164	E	MLZ021T4	38	2.989	3.673	4.445	5.306	6.253	7.275	8.387	2.633		
OP-MPVE057ML	114X7165	G	MLZ026T5	43	2.745	3.37	4.074	4.858	5.719	6.65	7.661	2.903	76	45
				32	4.055	4.967	5.993	7.131	8.373	9.702	11.124	2.879		
				38	3.681	4.503	5.424	6.444	7.555	8.746	10.038	3.267		
OP-MPVE068ML	114X7166	E	MLZ026T4	43	3.364	4.107	4.938	5.858	6.862	7.938	9.094	3.639	74	43
				32	4.537	5.559	6.731	8.063	9.559	11.223	13.055	3.461		
				38	4.079	4.993	6.044	7.242	8.597	10.115	11.801	3.884		
OP-MPVE080ML	114X7214	G	MLZ030T5	43	3.69	4.508	5.453	6.537	7.771	-	-	4.278	75	44
				32	5.246	6.443	7.798	9.319	11.010	12.875	14.913	4.062		
				38	4.644	5.724	6.949	8.328	9.867	11.574	13.454	4.580		
OP-MPVE099ML	114X7168	E	MLZ038T4	43	4.122	5.100	6.210	7.465	8.873	-	-	5.069	75	44
				32	6.529	7.982	9.625	11.465	13.502	15.737	18.169	5.162		
				38	5.815	7.107	8.572	10.218	12.051	14.075	16.296	5.829		
OP-MPVE108ML	114X7169	E	MLZ045T4	43	5.198	6.346	7.653	9.130	10.786	-	-	6.466	77	46
				32	6.993	8.581	10.374	12.376	14.589	17.011	19.641	5.636		
				38	6.157	7.575	9.179	10.978	12.975	15.175	17.584	6.416		
OP-MPVE108ML	114X7170	E	MLZ048T4	43	5.433	6.699	8.136	9.756	11.567	-	-	7.167	77	46
				32	6.993	8.581	10.374	12.376	14.589	17.011	19.641	5.636		
				38	6.157	7.575	9.179	10.978	12.975	15.175	17.584	6.416		

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

(2) Test conditon EN13215, Superheat 10K

Subcooling within the limits of the condensing unit.

MLZ type compressor models are scroll compressors.

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within ± 3% of this value.

Q [kW], Cooling Capacity

P [kW], Power Input

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

LBP

Application	Code number	Model number	Compressor Model	Electrical Code (1)	Refrigerant (2)	Condenser Coil			Fan		Receiver	Dimensions						Weight		
						Type	Airflow	Internal Volume	Number	Blade ø		Volume	Figure	Height	Width	Depth	Suction line	Liquid line	Gross	Net
							(m³/h)	(dm³)						(mm)	(L)	mm	mm	mm		
LBP	114X7171	OP-LPQE048NTW10G	NTZ048-5	G	Q	D7	5000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	81.0	63.0	
LBP	114X7172	OP-LPQE048NTW10E	NTZ048-4	E	Q	D7	5000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	81.0	63.0	
LBP	114X7173	OP-LPQE068NTW10G	NTZ068-5	G	Q	D7	5000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	83.0	65.0	
LBP	114X7174	OP-LPQE068NTW10E	NTZ068-4	E	Q	D7	5000	0.58	1	460	3.4	B2	690	1087	464	5/8"	1/2"	83.0	65.0	
LBP	114X7175	OP-LPQE067LLW10E	LLZ013T4	E	Q	G7	5200	1.62	1	500	6.2	B3	825	1105	464	3/4"	1/2"	118.0	100	
LBP	114X7176	OP-LPQE084LLW10E	LLZ015T4	E	Q	G7	5200	1.62	1	500	6.2	B3	825	1105	464	3/4"	1/2"	118.0	100	
LBP	114X7177	OP-LPQE098LLW10E	LLZ018T4	E	Q	G7	5200	1.62	1	500	6.2	B3	825	1105	464	3/4"	1/2"	119.0	101	

MBP

Application	Code number	Model number	Compressor Model	Electrical Code (1)	Refrigerant (2)	Condenser Coil			Fan		Receiver	Dimensions						Weight		
						Type	Airflow	Internal Volume	Number	Blade ø		Volume	Figure	Height	Width	Depth	Suction line	Liquid line	Gross	Net
							(m³/h)	(dm³)							(mm)	(L)	mm	mm		
MBP	114X7163	OP-MPVE034MLW10G	MLZ015T5	G	V	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73	
MBP	114X7164	OP-MPVE046MLW10E	MLZ021T4	E	V	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73	
MBP	114X7213	OP-MPVE046MLW10G	MLZ021T5	G	V	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73	
MBP	114X7165	OP-MPVE057MLW10G	MLZ026T5	G	V	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73	
MBP	114X7166	OP-MPVE057MLW10E	MLZ026T4	E	V	D7	5000	0.58	1	460	3.4	B2	690	1087	464	3/4"	1/2"	91	73	
MBP	114X7167	OP-MPVE068MLW10E	MLZ030T4	E	V	G7	5200	1.62	1	500	6.2	B3	825	1105	464	7/8"	1/2"	117	99	
MBP	114X7214	OP-MPVE068MLW10G	MLZ030T5	G	V	G7	5200	1.62	1	500	6.2	B3	825	1105	464	7/8"	1/2"	117	99	
MBP	114X7168	OP-MPVE080MLW10E	MLZ038T4	E	V	G7	5200	1.62	1	500	6.2	B3	825	1105	464	7/8"	1/2"	117	99	
MBP	114X7215	OP-MPVE080MLW10G	MLZ038T5	G	V	G7	5200	1.62	1	500	6.2	B3	825	1105	464	7/8"	1/2"	117	99	
MBP	114X7169	OP-MPVE099MLW10E	MLZ045T4	E	V	G7	5200	1.62	1	500	6.2	B3	825	1105	464	7/8"	1/2"	117	99	
MBP	114X7170	OP-MPVE108MLW10E	MLZ048T4	E	V	G7	5200	1.62	1	500	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/3N~/50Hz, fan 230V/1~/50 Hz

(2) Refrigerant: Q - R404A/R507/R452A

V - R134a/R513A/R404A/R448A/R449A/R452A

Designation	LPQE048NT	LPQE048NT	LPQE068NT	LPQE068NT	LPQE067LL	LPQE083LL	LPQE097LL
Code number	114X7171	114X7172	114X7173	114X7174	114X7175	114X7176	114X7177
Version	W10	W10	W10	W10	W10	W10	W10
Compressor description	NTZ048-5	NTZ048-4	NTZ068-5	NTZ068-4	LLZ013T4	LLZ015T4	LLZ018T4
Chassis	B2	B2	B2	B2	B3	B3	B3
Spare parts							
Compressor single pack	120F0228	120F0226	120F0232	120F0230	121L9535	121L9537	121L9539
Oil	120Z0638	120Z0638	120Z0638	120Z0638	120Z0648	120Z0648	120Z0648
Condenser	118U5218	118U5218	118U5218	118U5218	118U5219	118U5219	118U5219
Dual pressure switch	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766	060-539766
Fan Motor / Assembly*	118U5287	118U5287	118U5287	118U5287	118U3829	118U3829	118U3829
Fan cowl/grill	118U3484	118U3484	118U3484	118U3484	118U3485	118U3485	118U3485
Filter drier	023Z5041	023Z5041	023Z5041	023Z5041	023Z5044	023Z5044	023Z5044
Liquid valve	118U3761	118U3761	118U3761	118U3761	118U3761	118U3761	118U3761
Receiver	118U4013	118U4013	118U4013	118U4013	118U4015	118U4015	118U4015
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve	118U3764	118U3764	118U3764	118U3764	118U3762	118U3762	118U3762
Fan speed controller Female type	061H3140	061H3140	061H3140	061H3140	061H3140	061H3140	061H3140
Electrical spare parts							
Crankcase heater	120Z0459	120Z0459	120Z0459	120Z0459	120Z5040	120Z5040	120Z5040
Contact compressor	118U3894	118U3893	118U3896	118U3893	118U3896	118U3896	118U3896
Overload relay	118U3877	118U3978	118U3878	118U3876	118U3877	118U3878	118U3878
Run capacitor	8173041	-	8173041	-	-	-	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Starting capacitor	8173001	-	8173001	-	-	-	-
Starting relay	8173022	-	8173022	-	-	-	-
Circuit breaker	118U3976	118U3873	118U3869	118U3873	118U3873	118U3874	118U3874
Electrical characteristics							
Wiring Diagram	WD8	WD9	WD8	WD9	WD11	WD11	WD11
LRA Compressor [A]	37	16	53	25	62	88.5	90
MCC Compressor [A]	11	4.8	17	8.4	12	15	15
Max cont.power [kW]	2.33	2.41	3.76	3.7	5.03	5.94	6.65
MCC Fan [A]	1.1	1.1	1.1	1.1	0.97	0.97	0.97
Fan Power [W]	135	135	135	135	130	130	130
Accessories (Not Premounted)							
Acoustic hood	120Z0575	120Z0575	120Z0575	120Z0575	120Z5052	120Z5052	120Z5052
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009	7750009
Adapter Plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170

* Capacitor and fan blade included

MCC - Max Continuous Current

LRA - Locked Rotor Amps

FSC - Fan Speed Controller

Designation	MPVE034ML	MPVE046ML	MPVE046ML	MPVE057ML	MPVE057ML
Code Number	114X7163	114X7213	114X7164	114X7165	114X7166
Version	W10	W10	W10	W10	W10
Compressor description	MLZ015T5	MLZ021T5	MLZ021T4	MLZ026T5	MLZ026T4
Chassis	B2	B2	B2	B2	B2
Spare parts					
Compressor single pack	121L8631	121L8635	121L8633	121L8639	121L8637
Oil	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648
Condenser	118U5218	118U5218	118U5218	118U5218	118U5218
Dual pressure switch	060-533091	060-533091	060-533091	060-533091	060-533091
Fan Motor / Assembly*	118U5287	118U5287	118U5287	118U5287	118U5287
Fan cowl/grill	118U3484	118U3484	118U3484	118U3484	118U3484
Filter drier	023Z5041	023Z5041	023Z5041	023Z5041	023Z5041
Liquid valve	118U3761	118U3761	118U3761	118U3761	118U3761
Receiver	118U4013	118U4013	118U4013	118U4013	118U4013
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve	118U3762	118U3762	118U3762	118U3762	118U3762
Fan speed controller	061H3140	061H3140	061H3140	061H3140	061H3140
Electrical spare parts					
Contact kit	118U3867	118U3867	118U3894	118U3867	118U3894
Overload relay	118U3879	118U3880	118U3876	118U3880	118U3876
Run capacitor	8173231	120Z0051	-	8173041	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882
Starting capacitor	120Z0399	120Z0399	-	8173001	-
Starting relay	120Z0394	120Z0394	-	120Z0394	-
Circuit breaker	118U3869	118U3873	118U3873	118U3870	118U3873
Electrical characteristics					
Wiring Diagram	WD8	WD8	WD9	WD8	WD9
LRA Compressor [A]	60	97	45	97	45
MCC Compressor [A]	19	25	9.5	26	10
Max cont.power [kW]	2.86	3.3	4.51	4.38	4.36
MCC Fan [A]	1.1	1.1	1.1	1.1	1.1
Fan Power [W]	135	135	135	135	135
Electrical characteristics					
Acoustic hood	120Z5043	120Z5043	120Z5043	120Z5043	120Z5043
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009
Adapter Plug	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible plug	118U5170	118U5170	118U5170	118U5170	118U5170

* Capacitor and fan blade included

MCC - Max Continuous Current

LRA - Locked Rotor Amps

FSC - Fan Speed Controller

Designation	MPVE068ML	MPVE068ML	MPVE080ML	MPVE080ML	MPVE099ML	MPVE108ML
Code Number	114X7214	114X7167	114X7215	114X7168	114X7169	114X7170
Version	W10	W10	W10	W10	W10	W10
Compressor description	MLZ030T5	MLZ030T4	MLZ038T5	MLZ038T4	MLZ045T4	MLZ048T4
Chassis	B3	B3	B3	B3	B3	B3
Spare parts						
Compressor single pack	121L8643	121L8641	121L8647	121L8645	121L8649	121L8651
Oil	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648
Condenser	118U5219	118U5219	118U5219	118U5219	118U5219	118U5219
Dual pressure switch	060-533091	060-533091	060-533091	060-533091	060-533091	060-533091
Fan Motor / Assembly*	118U3829	118U3829	118U3829	118U3829	118U3829	118U3829
Fan cowl/grill	118U3485	118U3485	118U3485	118U3485	118U3485	118U3485
Filter drier	023Z5044	023Z5044	023Z5044	023Z5044	023Z5044	023Z5044
Liquid valve	118U3761	118U3761	118U3761	118U3761	118U3761	118U3761
Receiver	118U4016	118U4016	118U4016	118U4016	118U4016	118U4016
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173	014L0173
Suction valve	118U3763	118U3763	118U3763	118U3763	118U3763	118U3763
Fan speed controller	061H3140	061H3140	061H3140	061H3140	061H3140	061H3140
Electrical spare parts						
Contact kit	118U3895	118U3896	118U3868	118U3896	118U3896	118U3896
Overload relay	118U3880	118U3877	118U3881	118U3878	118U3878	118U3878
Run capacitor	8173233	-	8173234	-	-	-
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Starting capacitor	120Z0400	-	8173001	-	-	-
Starting relay	120Z0394	-	120Z0395	-	-	-
Circuit breaker	118U3871	118U3873	118U3874	118U3874	118U3874	118U3874
Electrical characteristics						
Wiring Diagram	WD10	WD11	WD10	WD11	WD11	WD11
LRA Compressor [A]	127	60	130	70	82	87
MCC Compressor [A]	32	13	38	15	15	16
Max cont.power [kW]	3.35	5.63	6.64	6.64	7.81	8.46
MCC Fan [A]	0.97	0.97	0.97	0.97	0.97	0.97
Fan Power [W]	130	130	130	130	130	130
Electrical characteristics						
Acoustic hood	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044	120Z5044
Discharge Gas thermostat	7750009	7750009	7750009	7750009	7750009	7750009
Adapter Plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170

* Capacitor and fan blade included

MCC - Max Continuous Current

LRA - Locked Rotor Amps

FSC - Fan Speed Controller

Note:

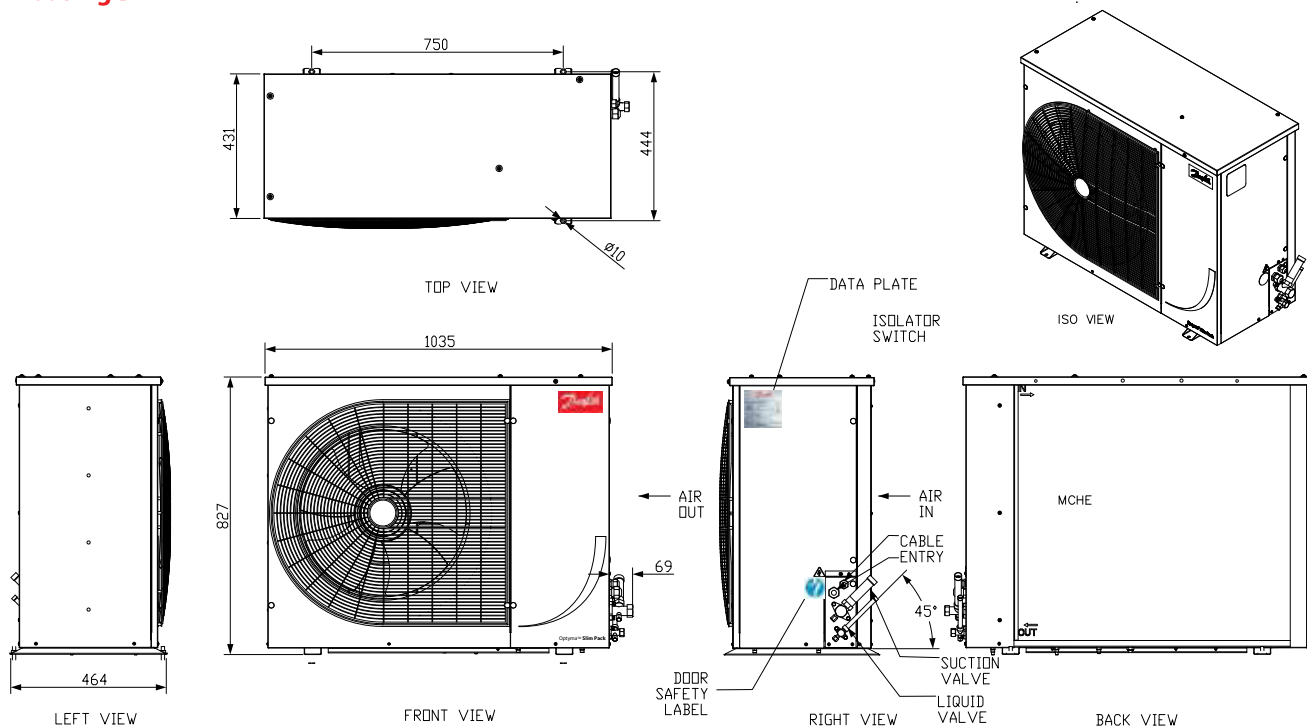
1. For W02 & W04 versions, KP Switch is applicable for Units Serial No from 049377CG2816 . Before this serial Nos HP/LP Switch is applicable
LP Pressure cartridge : ACB-2UA59, 061F7595/61F7798 HP Pressure cartridge : ACB-2UB246W, 061F8215

2. Only For W08 version products, manufactured before June 2017 units were sent in W04 version.

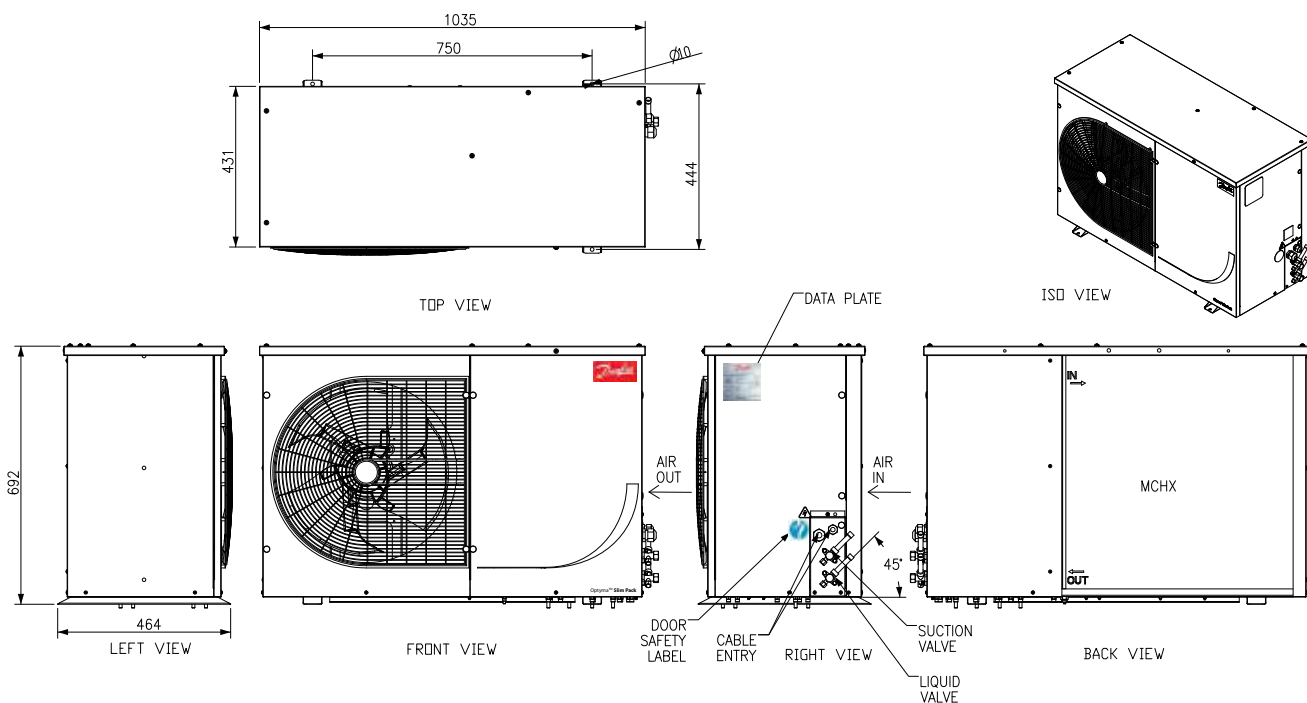
Component type	Component code	Component description	Additional informations
Capacitor	8173001	Start capacitor 100µF 330V+R	
Capacitor	8173002	Start capacitor 135µF 330V+R	
Capacitor	120Z0400	Start capacitor 161-193µF 330V+R	
Capacitor	120Z0399	Start capacitor 145-175 µF 330V+R	
Circuit Breaker	118U3869	Kit Circuitbreaker - C60H2P25AC	
Circuit Breaker	118U3870	Kit Circuitbreaker - C60H2P32AC	
Circuit Breaker	118U3871	Kit Circuitbreaker - C60H2P40AC	
Circuit Breaker	118U3872	Kit Circuitbreaker - C60H4P10AC	
Circuit Breaker	118U3873	Kit Circuitbreaker - C60H4P16AC	
Circuit Breaker	118U3874	Kit Circuitbreaker - C60H4P20AC	
Circuit Breaker	118U3899	Kit Circuitbreaker - C60H2P50AC	
Circuit Breaker	118U3976	Kit Circuitbreaker - C60H2P16A	
Compressor Single Pack	121L8631	MLZ015T5LP9A Compressor	
Compressor Single Pack	121L8629	MLZ015T4LP9A Compressor	
Compressor Single Pack	MT28-5VI	MT28-5VI Compressor	
Compressor Single Pack	MT28-4VI	MT28-4VI Compressor	
Compressor Single Pack	121L8635	MLZ021T5LP9A Compressor	
Compressor Single Pack	121L8633	MLZ021T4LP9A Compressor	
Compressor Single Pack	MT36-5VI	MT36-5VI Compressor	
Compressor Single Pack	MT36-4VI	MT36-4VI Compressor	
Compressor Single Pack	121L8643	MLZ030T5LC9A Compressor	
Compressor Single Pack	121L8641	MLZ030T4LC9A Compressor	
Compressor Single Pack	121L8647	MLZ038T5LC9A Compressor	
Compressor Single Pack	121L8645	MLZ038T4LC9A Compressor	
Compressor Single Pack	121U8793	MLZ042T5LC9A Compressor	
Compressor Single Pack	121L8649	MLZ045T4LC9A Compressor	
Compressor Single Pack	121L8651	MLZ048T4LC9A Compressor	
Compressor Single Pack	121L8639	MLZ026T5LP9A Compressor	
Compressor Single Pack	121L8637	MLZ026T4LP9A Compressor	
Compressor Single Pack	120F0087	NTZ048A5LR1A Compressor single	
Compressor Single Pack	120F0001	NTZ048A4LR1-Single Recip Comp	
Compressor Single Pack	120F0088	NTZ068-5LR1A-Single	
Compressor Single Pack	120F0002	NTZ068A4LR1A-Single Recip Comp	
Compressor Single Pack	121L9535	Compressor LLZ013T4LQ9A	
Compressor Single Pack	121L9537	Compressor LLZ015T4LQ9A	
Compressor Single Pack	121L9539	Compressor LLZ018T4LQ9A	
Condenser	118U5219	Spare part, 9513 B2, D7 MCHX	
Condenser	118U5218	Spare part, 9513 B3, G7 MCHX	
Contact kit	118U3867	Kit Cont - LC1E2501M6	
Contact kit	118U3893	Kit Cont - LC1E0901M5	
Contact kit	118U3895	Kit Cont - LC1E3201M5	
Contact kit	118U3868	Kit Cont - LC1E3801M6	
Contact kit	118U3894	Kit Cont - LC1E1201M5	
Contact kit	118U3896	Kit Cont - LC1E1801M5	
Crankcase heater	120Z0459	PTC Crankcase heater	
Crankcase heater	120Z5040	Crankcase heater, 240V 70W	
Dual pressure switch	060-533091	KP17WB Pressure switch I/32	
Dual pressure switch	060-539766	KP17WB Pressure switch M/24	
Fan cowl/grill	118U3484	Fan Grill Housing 2 OP PLUS	
Fan cowl/grill	118U3485	Fan Grill Housing 3 OP PLUS	
Fan motor (Capacitor included)	118U5287	Spare part Fan motor for B2 for high amb (Implementation serial number XXXXXXXX3021)	Retrofit before implementation date (fan motor- 118U3823, blade- 118U3481)
Fan motor (Capacitor included)/ Assembly	118U3829	Spare part Fan motor for B3 High amb (implementation serial number XXXXXXXX3020)	Fan blade will come along with Fan motor (Capacitor included)/Assembly Retrofit before implementation (fan motor-118U4048, blade-118U3768)
Fan speed control	061H3140	XGE Fan speed controller 4C	
Filter drier	023Z5040	Filter drier DML 083 M/24	
Filter drier	023Z5041	Filter drier DML 084 M/24	

Component type	Component code	Component description	Additional informations
Filter drier	023Z5044	Filter drier DML 164 M/12	
Liquid valve	118U3959	Spare part, Flare service valve 3/8"	
Liquid valve	118U3757	Spare part, Flare service valve 1/2"	
Liquid valve	118U3761	Spare part - Brazed service valve 1/2"	
Liquid valve	118U3986	Spare part - Flare service valve 3/8"	
LP pressure cartridge	061F7798	ACB Cartridge switch 2UA947W I/50	
Oil	120Z0638	Lubricant 175PZ-1L CAN	
Oil	120Z0648	Lubricant 215PZ-1L CAN	
Oil	7754001	Lubricant 160P-2L CAN	
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	118U3978	Kit OL-Relay - LRE10	
Receiver	118U4012	Receiver 3.4L, 3/8 NPT	
Receiver	118U4013	Receiver 3.4L, 3/8 NPT (Without Rotor Lock)	
Receiver	118U4014	Receiver 6.2L, 3/8 NPT (Ods 3/8" - Dia 9.7 Rotor Lock)	
Receiver	118U4015	Receiver 6.2L, 3/8 NPT (Ods 5/8" - Dia 16.2 Rotor Lock)	
Receiver	118U4016	Receiver 6.2L, 3/8 NPT (Ods 1/2" - Dia 12.9 Rotor Lock)	
Start relay	8173022	Starting relay TYPE RVA6AMKL	
Start relay	120Z0393	Starting relay RVA9CKL	
Start relay	120Z0394	Starting relay RVA3EKL	
Start relay	120Z0395	Starting relay RVA4GKL	
Run capacitor	8173041	Capacitor 30µF 450V	
Run capacitor	8173042	Capacitor 35µF 450V	
Run capacitor	8173231	Capacitor 40 µF 450V	
Run capacitor	8173233	Capacitor 50 µF 450V	
Run capacitor	8173234	Capacitor 55 µF 450V	
Run capacitor	120Z0051	Capacitor 70µF 450V	
Sequence phase relay	118U3882	KIT SPPR, GIC-SM500-MG73BF	
Sight glass	014L0172	SGP 10 N Sight Glass M/24x3	
Sight glass	014L0203	SGP 12s N Sight Glass M/28	
Sight glass	014L0173	SGP 12 N Sight Glass M/24x3	
Solenoid valve (Body)	032F1212	EVR 6 Valve ODF-ODF 3/8in Multi 12	
Solenoid valve (Body)	032F1217	EVR 10 Valve ODF-ODF 1/2in Multi 12	
Solenoid valve (Coil)	018F6251	Coil BF230AS 220-230V 50Hz 1m Cable	
Solenoid valve (Coil)	018F6701	Coil BE230AS 220-230V 50Hz Box	
Suction valve	118U3757	Spare part - Flare service valve 1/2"	
Suction valve	118U3758	Spare part - Flare service valve 3/4"	
Suction valve	118U3760	Spare part - Flare service valve 7/8"	
Suction valve	118U3762	Spare part - 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"	
Suction valve	118U4008	Spare part - Braze service valve 3/4" R22	
Suction valve	118U4009	Spare part - Braze service valve 5/8" R22	

Housing B2



Housing B3



Dimension in mm

Optyma™ Plus

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

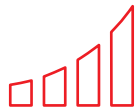
The same robust quality with added technology and smarter design. That's a seriously cool combination.

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.



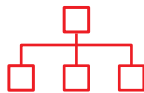
High SEPR*

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.

P02: Scroll compressor with Liquid injection management 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:

AUSTRALIA: \$0.23/1KWH= 4192 X 0.23=\$964

\$964 annual electricity savings made
by your customer in Germany

* Source: Danfoss

Model	Code	Version	Compressor	Electrical code (1)	T _{amb} [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)				Sound power level dB(A)	Sound pressure level 10 m dB(A)
						T _e [°C]							Q [kW]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LPQM026AJ	114X3216	P00	CAJ2446Z	G	27	0.472	0.659	0.881	1.144	1.447	1.794	2.184						
					32	0.408	0.581	0.788	1.031	1.312	1.634	1.997	0.644	0.671	0.96		69	38
					38	-	0.489	0.675	0.894	1.148	1.439	1.769						
					43	-	0.414	0.582	0.780	1.010	1.275	1.577						
OP-LPQM048NT	114X3225	P00	NTZ048-5	G	27	0.771	1.090	1.478	1.931	2.446	3.018	3.641						
					32	0.655	0.948	1.303	1.718	2.191	2.717	3.291	1.053	0.950	1.11		70	39
					38	0.529	0.790	1.105	1.475	1.896	2.366	2.880						
					43	0.433	0.667	0.950	1.281	1.660	2.082	2.545						
OP-LPQM048NT	114X3233	P00	NTZ048-4	E	27	0.778	1.076	1.438	1.860	2.340	2.873	3.454						
					32	0.679	0.947	1.273	1.655	2.092	2.579	3.112	1.054	0.981	1.07		70	39
					38	0.572	0.805	1.089	1.424	1.809	2.241	2.716						
					43	0.491	0.695	0.945	1.242	1.584	1.969	2.396						
OP-LPQM068NT	114X3249	P00	NTZ068-4	E	27	1.001	1.415	1.897	2.442	3.044	3.695	4.384						
					32	0.841	1.221	1.664	2.166	2.722	3.324	3.964	1.362	1.390	0.98		71	40
					38	-	1.003	1.398	1.848	2.347	2.890	3.467						
					43	-	0.835	1.190	1.595	2.045	2.536	3.059						
OP-LPQM074FH	114X3252	P00	FH2511Z	G	27	1.062	1.511	2.037	2.641	3.324	4.085	4.919						
					32	0.889	1.310	1.801	2.365	3.003	3.713	4.492	1.458	1.539	0.95		72	41
					38	-	1.070	1.518	2.033	2.614	3.262	3.975						
					43	-	0.874	1.286	1.757	2.290	2.886	3.542						
OP-LPQM074FH	114X3253	P00	TFH2511Z	E	27	1.241	1.667	2.151	2.688	3.273	3.897	4.550						
					32	1.052	1.447	1.895	2.392	2.932	3.508	4.110	1.619	1.627	1.00		74	43
					38	0.833	1.192	1.597	2.045	2.530	3.047	3.586						
					43	0.659	0.987	1.355	1.762	2.201	2.668	3.153						
OP-LPQM068NT	114X3241	P00	NTZ068-5	G	27	1.215	1.655	2.158	2.712	3.299	3.898	4.484						
					32	1.056	1.459	1.918	2.421	2.952	3.491	4.014	1.632	1.404	1.16		71	40
					38	0.864	1.223	1.629	2.070	2.534	3.000	3.446						
					43	0.708	1.028	1.388	1.778	2.184	2.588	2.969						
OP-LPQM096NT	114X3357	P00	NTZ096-4	E	27	1.487	2.022	2.651	3.363	4.142	4.972	5.836						
					32	1.289	1.773	2.344	2.990	3.699	4.454	5.241	1.984	1.863	1.070		78	47
					38	1.063	1.484	1.982	2.549	3.173	3.838	4.532						
					43	0.887	1.253	1.691	2.190	2.741	3.330	3.943						

This table continues on the next page

LBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz**(2)** Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LPOM067LL	114X3371	P02	LLZ013T4	E	27	1.925	2.483	3.161	3.970	4.918	6.013	7.257	2.692	2.200	1.34	1.74	74	43
					32	1.794	2.306	2.929	3.675	4.553	5.571	6.733						
					38	1.642	2.096	2.651	3.318	4.108	5.030	6.089						
					43	1.519	1.922	2.418	3.017	3.731	4.570	5.541						
OP-LPOM084LL	114X3372	P02	LLZ015T4	E	27	2.408	3.051	3.812	4.703	5.732	6.905	8.225	3.290	2.741	1.29	1.70	74	43
					32	2.223	2.820	3.526	4.351	5.306	6.398	7.630						
					38	1.997	2.533	3.167	3.909	4.771	5.761	6.884						
					43	1.803	2.286	2.856	3.526	4.306	5.206	6.234						
OP-LPOM098LL	114X3373	P02	LLZ018T4	E	27	2.812	3.560	4.438	5.457	6.622	7.938	9.406	3.840	3.214	1.27	1.70	74	43
					32	2.592	3.286	4.098	5.039	6.118	7.339	8.704						
					38	2.318	2.943	3.671	4.516	5.486	6.588	7.824						
					43	2.084	2.647	3.302	4.062	4.937	5.935	7.061						
OP-LPOM120LL	114X3485	P02	LLZ024T4	E	27	3.619	4.605	5.778	7.161	8.770	10.623	12.731	4.964	3.961	1.39	1.88	81	50
					32	3.345	4.266	5.360	6.650	8.154	9.889	11.869						
					38	3.005	3.841	4.834	6.005	7.376	8.963	10.784						
					43	2.712	3.472	4.374	5.442	6.696	8.155	9.837						
OP-LPOM168LL	114X3486	P02	LLZ034T4	E	27	5.186	6.570	8.201	10.101	12.287	14.769	17.551	7.077	5.521	1.38	1.84	79	48
					32	4.780	6.066	7.578	9.340	11.369	13.678	16.274						
					38	4.278	5.437	6.798	8.385	10.217	12.310	14.673						
					43	3.847	4.893	6.120	7.553	9.214	11.119	13.281						

LBP

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

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

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

O = R404A/R507, R452A, R448A, R449A

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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

Model	Code	Version	Compressor	Electrical code (1)	T _{amb} [°C]	Cooling capacity Q [kW] (2)							EcoDesign (3)				Sound power level dB(A)	Sound pressure level 10 m dB(A)
						T _e [°C]							Q [kW]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LPQM026AJ	114X3216	P00	CAJ2446Z	G	27	0.526	0.732	0.978	1.268	1.606	1.993	2.432						
					32	0.455	0.645	0.872	1.140	1.451	1.809	2.216	0.724	0.715	1.01		69	38
					38	0.371	0.541	0.745	0.985	1.265	1.588	1.957						
					43	-	0.457	0.641	0.857	1.111	1.404	1.739						
OP-LPQM048NT	114X3225	P00	NTZ048-5	G	27	0.776	1.134	1.568	2.083	2.677	3.349	4.098						
					32	0.651	0.981	1.381	1.853	2.398	3.017	3.706	1.104	1.097	1.01		70	39
					38	0.501	0.798	1.155	1.576	2.062	2.615	3.232						
					43	0.381	0.647	0.968	1.345	1.782	-	-						
OP-LPQM048NT	114X3233	P00	NTZ048-4	E	27	0.783	1.143	1.572	2.072	2.645	3.290	4.007						
					32	0.670	1.000	1.392	1.849	2.371	2.960	3.615	1.126	0.997	1.13		70	39
					38	0.536	0.831	1.179	1.583	2.044	2.565	3.147						
					43	0.427	0.692	1.003	1.363	1.775	-	-						
OP-LPQM074FH	114X3253	P00	TFH2511Z	E	27	1.332	1.793	2.348	2.994	3.730	4.548	5.440						
					32	1.189	1.608	2.110	2.694	3.358	4.098	4.905	1.826	1.730	1.06		74	43
					38	1.017	1.388	1.828	2.338	2.918	3.564	4.270						
					43	0.873	1.205	1.594	2.044	2.554	-	-						
OP-LPQM074FH	114X3252	P00	FH2511Z	G	27	1.176	1.664	2.235	2.890	3.630	4.455	5.361						
					32	0.983	1.439	1.971	2.580	3.268	4.034	4.877	1.627	1.662	0.98		72	41
					38	0.756	1.172	1.655	2.207	2.831	3.526	4.292						
					43	0.573	0.955	1.395	1.899	2.468	3.102	3.803						
OP-LPQM068NT	114X3241	P00	NTZ068-5	G	27	1.177	1.670	2.254	2.931	3.695	4.543	5.468						
					32	0.985	1.434	1.969	2.588	3.291	4.074	4.931	1.620	1.514	1.07		71	40
					38	0.776	1.173	1.646	2.197	2.825	3.528	4.301						
					43	0.620	0.972	1.394	1.887	2.452	3.087	3.789						
OP-LPQM068NT	114X3249	P00	NTZ068-4	E	27	1.359	1.860	2.443	3.107	3.852	4.672	5.563						
					32	1.172	1.629	2.162	2.770	3.451	4.204	5.024	1.845	1.613	1.14		71	40
					38	0.967	1.374	1.846	2.386	2.991	3.662	4.394						
					43	0.812	1.177	1.599	2.081	2.623	-	-						
OP-LPQM096NT	114X3357	P00	NTZ096-4	E	27	1.480	2.019	2.667	3.418	4.262	5.184	6.164						
					32	1.262	1.752	2.340	3.023	3.791	4.631	5.527	1.988	1.951	1.020		78	47
					38	1.003	1.432	1.948	2.549	3.226	3.969	4.763						
					43	0.794	1.171	1.627	2.158	2.760	3.421	4.130						

LBP

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

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

This table continues on the next page

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]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LPOM067LL	114X3371	P02	LLZ013T4	E	27	2.210	2.823	3.547	4.391	5.365	6.476	7.732	2.966	2.458	1.21	1.69	74	43
					32	2.024	2.600	3.276	4.061	4.965	5.997	7.163						
					38	1.790	2.319	2.934	3.645	4.462	5.395	6.451						
					43	1.586	2.073	2.634	3.280	4.022	4.870	5.832						
OP-LPOM084LL	114X3372	P02	LLZ015T4	E	27	2.654	3.375	4.240	5.261	6.444	7.795	9.317	3.556	2.887	1.23	1.77	74	43
					32	2.440	3.110	3.909	4.848	5.936	7.178	8.580						
					38	2.171	2.777	3.494	4.332	5.303	6.412	7.667						
					43	1.935	2.485	3.130	3.883	4.754	5.751	6.882						
OP-LPOM098LL	114X3373	P02	LLZ018T4	E	27	3.089	3.920	4.914	6.079	7.421	8.944	10.647	4.135	3.279	1.26	1.75	74	43
					32	2.837	3.608	4.524	5.594	6.825	8.221	9.785						
					38	2.519	3.216	4.035	4.987	6.082	7.324	8.719						
					43	2.241	2.871	3.607	4.459	5.438	6.550	7.802						
OP-LPOM120LL	114X3485	P02	LLZ024T4	E	27	3.997	5.083	6.389	7.930	9.719	11.763	14.068	5.355	4.216	1.27	1.84	81	50
					32	3.676	4.687	5.893	7.312	8.958	10.839	12.963						
					38	3.273	4.188	5.271	6.540	8.010	9.692	11.597						
					43	2.920	3.750	4.727	5.867	7.188	8.702	10.421						
OP-LPOM168LL	114X3486	P02	LLZ034T4	E	27	5.429	6.821	8.466	10.379	12.568	15.038	17.788	7.167	5.747	1.25	1.91	79	48
					32	4.953	6.244	7.754	9.498	11.490	13.737	16.242						
					38	4.337	5.503	6.848	8.390	10.143	12.121	14.332						
					43	3.776	4.836	6.042	7.412	8.967	10.719	12.683						

LBP

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

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

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

O = R404A/R507, R452A, R448A, R449A

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						
OP-LPOM067LL	114X3371	P02	LLZ013T4	E	27	1.883	2.486	3.211	4.065	5.047	6.159	7.398	2.688	2.391	1.12	1.6	74	43
					32	1.787	2.344	3.017	3.810	4.725	5.763	6.922						
					38	1.681	2.179	2.783	3.499	4.329	5.274	6.334						
					43	1.605	2.047	2.589	3.237	3.992	4.857	5.831						
OP-LPOM084LL	114X3372	P02	LLZ015T4	E	27	2.342	3.123	4.043	5.111	6.328	7.694	9.205	3.382	2.947	1.15	1.64	74	43
					32	2.207	2.942	3.806	4.804	5.942	7.218	8.632						
					38	2.049	2.726	3.517	4.429	5.468	6.635	7.929						
					43	1.921	2.545	3.272	4.110	5.064	6.137	7.330						
OP-LPOM098LL	114X3373	P02	LLZ018T4	E	27	2.815	3.702	4.760	5.997	7.419	9.027	10.820	4.002	3.256	1.23	1.75	74	43
					32	2.658	3.493	4.485	5.644	6.975	8.482	10.165						
					38	2.471	3.241	4.152	5.214	6.435	7.818	9.366						
					43	2.315	3.028	3.869	4.849	5.975	7.253	8.687						
OP-LPOM120LL	114X3485	P02	LLZ024T4	E	27	3.546	4.552	5.761	7.190	8.852	10.751	12.886	4.886	4.058	1.20	1.65	81	50
					32	3.342	4.291	5.420	6.750	8.294	10.058	12.044						
					38	3.080	3.957	4.990	6.199	7.601	9.202	11.006						
					43	2.842	3.659	4.610	5.718	6.999	8.463	10.114						
OP-LPOM168LL	114X3486	P02	LLZ034T4	E	27	5.045	6.444	8.114	10.072	12.322	14.866	17.696	6.908	5.324	1.30	1.81	79	48
					32	4.770	6.075	7.628	9.447	11.537	13.903	16.538						
					38	4.432	5.615	7.021	8.665	10.559	12.705	15.102						
					43	4.142	5.218	6.494	7.988	9.712	11.670	13.864						

LBP

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

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

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

O = R404A/R507, R452A, R448A, R449A

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MPGM033AJ	114X4220	P00	CAJ4511Y	G	27	1.444	1.835	2.280	2.786	3.353	3.984	4.678	1.740	0.849	2.05		69	38
					32	1.326	1.699	2.122	2.601	3.138	3.736	4.394						
					38	1.180	1.531	1.927	2.373	2.873	3.430	4.045						
					43	1.058	1.389	1.761	2.180	2.649	3.171	3.749						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	1.817	2.286	2.834	3.467	4.188	5.001	5.907	2.216	0.983	2.25		69	38
					32	1.716	2.162	2.685	3.290	3.980	4.761	5.632						
					38	1.597	2.012	2.502	3.071	3.723	4.462	5.290						
					43	1.499	1.886	2.346	2.883	3.502	4.205	4.995						
OP-MPXM034ML	114X4261	P00	MLZ015T5	G	27	1.822	2.321	2.883	3.513	4.218	5.003	5.876	2.244	1.033	2.17		69	38
					32	1.711	2.189	2.730	3.339	4.023	4.788	5.639						
					38	1.580	2.026	2.536	3.115	3.770	4.504	5.324						
					43	1.476	1.890	2.369	2.919	3.544	4.250	5.041						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	2.478	3.090	3.817	4.660	5.618	6.691	7.875	2.998	1.289	2.33		69	38
					32	2.339	2.922	3.614	4.418	5.333	6.358	7.490						
					38	2.167	2.713	3.363	4.118	4.979	5.945	7.014						
					43	2.021	2.535	3.147	3.860	4.674	5.591	6.606						
OP-MPXM046ML	114X4281	P00	MLZ021T5	G	27	2.465	3.114	3.854	4.690	5.626	6.665	7.811	3.010	1.451	2.07		69	38
					32	2.317	2.933	3.641	4.446	5.350	6.358	7.473						
					38	2.143	2.710	3.372	4.133	4.994	5.959	7.030						
					43	2.006	2.524	3.142	3.859	4.679	5.603	6.633						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	2.988	3.749	4.629	5.632	6.762	8.020	9.405	3.633	1.591	2.28		70	39
					32	2.811	3.536	4.375	5.331	6.409	7.610	8.932						
					38	2.596	3.276	4.062	4.959	5.972	7.101	8.346						
					43	2.416	3.055	3.795	4.641	5.596	6.664	7.843						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	2.981	3.762	4.649	5.647	6.760	7.991	9.345	3.639	1.914	1.90		70	39
					32	2.805	3.540	4.384	5.339	6.409	7.597	8.905						
					38	2.601	3.271	4.052	4.947	5.958	7.088	8.337						
					43	2.443	3.048	3.770	4.608	5.564	6.638	7.833						

MBP

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

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

This table continues on the next page

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]	P [kW]	COP	SEPR		
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	3.686	4.631	5.738	7.016	8.470	10.104	11.920						
					32	3.484	4.382	5.437	6.657	8.048	9.614	11.357	4.493	1.897	2.37		73	42
					38	3.240	4.078	5.066	6.213	7.524	9.005	10.657						
					43	3.037	3.820	4.748	5.831	7.073	8.480	10.053						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	3.786	4.657	5.752	7.035	8.471	10.032	11.692						
					32	3.642	4.426	5.449	6.672	8.059	9.581	11.211	4.540	2.184	2.08		73	42
					38	3.479	4.146	5.072	6.214	7.534	9.001	10.586						
					43	3.356	3.915	4.751	5.817	7.073	8.487	10.029						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	4.283	5.388	6.667	8.129	9.782	11.630	13.673						
					32	4.029	5.086	6.307	7.704	9.282	11.048	13.001	5.220	2.308	2.26	3.43	73	42
					38	3.718	4.713	5.863	7.176	8.663	10.326	12.170						
					43	3.454	4.396	5.482	6.724	8.130	9.707	11.457						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	4.250	5.469	6.787	8.230	9.821	11.578	13.518						
					32	3.953	5.136	6.411	7.803	9.334	11.025	12.892	5.271	2.438	2.16	3.03	73	42
					38	3.566	4.705	5.926	7.255	8.715	10.327	12.107						
					43	3.225	4.325	5.500	6.776	8.176	9.721	11.429						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	5.637	7.050	8.708	10.601	12.721	15.056	17.592						
					32	5.298	6.641	8.223	10.033	12.062	14.299	16.730	6.819	2.840	2.40	3.74	74	43
					38	4.889	6.140	7.620	9.323	11.236	13.349	15.649						
					43	4.548	5.714	7.104	8.709	10.520	12.525	14.711						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	6.778	8.475	10.421	12.628	15.107	17.864	20.905						
					32	6.346	7.978	9.843	11.956	14.327	16.964	19.874	8.189	3.677	2.23	3.40	77	46
					38	5.815	7.364	9.130	11.125	13.363	15.853	18.604						
					43	5.363	6.841	8.519	10.414	12.539	14.904	17.519						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	8.698	10.884	13.393	16.234	19.416	22.943	26.820						
					32	8.169	10.246	12.638	15.353	18.399	21.782	25.505	10.523	4.681	2.25	3.46	77	46
					38	7.544	9.476	11.714	14.265	17.136	20.335	23.866						
					43	7.035	8.834	10.931	13.334	16.052	19.089	22.451						

MBP

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

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MPGM033AJ	114X4220	P00	CAJ4511Y	G	27	1.520	1.910	2.357	2.861	3.424	4.045	4.722						
					32	1.392	1.759	2.177	2.649	3.176	3.758	4.394	1.829	0.901	2.03		69	38
					38	1.234	1.575	1.961	2.395	2.879	3.414	4.001						
					43	1.101	1.420	1.780	2.182	2.631	3.129	3.674						
OP-MPXM034ML	114X4261	P00	MLZ015T5	G	27	1.918	2.378	2.926	3.570	4.318	5.173	6.138						
					32	1.801	2.238	2.756	3.365	4.071	4.880	5.796	2.326	1.063	2.19		69	38
					38	1.657	2.066	2.547	3.112	3.768	4.521	5.376						
					43	1.534	1.918	2.369	2.896	3.509	4.215	5.019						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	1.941	2.403	2.952	3.595	4.339	5.187	6.142						
					32	1.816	2.256	2.776	3.386	4.091	4.897	5.807	2.344	1.044	2.24		69	38
					38	1.665	2.075	2.560	3.128	3.786	4.540	5.394						
					43	1.538	1.922	2.376	2.907	3.524	4.234	5.041						
OP-MPXM046ML	114X4281	P00	MLZ021T5	G	27	2.553	3.167	3.887	4.720	5.671	6.744	7.938						
					32	2.390	2.978	3.664	4.455	5.359	6.379	7.516	3.101	1.572	1.97		69	38
					38	2.188	2.741	3.383	4.123	4.968	5.923	6.991						
					43	2.015	2.536	3.140	3.835	4.629	5.529	6.538						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	2.627	3.249	3.975	4.812	5.765	6.838	8.030						
					32	2.448	3.043	3.734	4.530	5.437	6.457	7.594	3.167	1.372	2.31		69	38
					38	2.227	2.786	3.434	4.179	5.027	5.984	7.053						
					43	2.037	2.565	3.174	3.875	4.674	5.577	6.588						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	3.139	3.884	4.748	5.736	6.852	8.095	9.463						
					32	2.936	3.648	4.469	5.406	6.462	7.639	8.937	3.803	1.859	2.05		70	39
					38	2.683	3.353	4.120	4.992	5.976	7.073	8.284						
					43	2.464	3.096	3.816	4.634	5.555	6.583	7.722						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	3.198	3.959	4.836	5.832	6.952	8.198	9.567						
					32	2.967	3.698	4.535	5.485	6.552	7.738	9.043	3.853	1.684	2.29		70	39
					38	2.678	3.369	4.157	5.049	6.050	7.162	8.389						
					43	2.430	3.085	3.829	4.669	5.613	6.663	7.823						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	3.939	4.851	5.924	7.172	8.605	10.231	12.054						
					32	3.685	4.557	5.580	6.768	8.132	9.683	11.424	4.737	2.094	2.26		73	42
					38	3.369	4.189	5.147	6.260	7.539	8.995	10.636						
					43	3.098	3.870	4.772	5.819	7.024	8.399	9.953						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	3.996	4.933	6.037	7.321	8.796	10.469	12.343						
					32	3.750	4.646	5.697	6.918	8.321	9.913	11.700	4.830	1.951	2.48		73	42
					38	3.443	4.285	5.269	6.411	7.723	9.215	10.894						
					43	3.178	3.971	4.896	5.969	7.203	8.609	10.197						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	4.597	5.682	6.956	8.432	10.120	12.025	14.149						
					32	4.312	5.348	6.559	7.959	9.560	11.369	13.389	5.565	2.517	2.21	3.18	73	42
					38	3.957	4.930	6.062	7.369	8.862	10.553	12.446						
					43	3.650	4.568	5.631	6.857	8.259	9.849	11.635						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	4.678	5.758	7.025	8.494	10.173	12.069	14.184						
					32	4.380	5.410	6.614	8.007	9.600	11.400	13.412	5.627	2.217	2.54	3.82	73	42
					38	4.011	4.975	6.099	7.398	8.884	10.568	12.454						
					43	3.694	4.601	5.655	6.872	8.267	9.850	11.630						

This table continues on the next page

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	6.082	7.496	9.139	11.024	13.160	15.548	18.187						
					32	5.659	7.007	8.569	10.359	12.387	14.658	17.173	7.300	3.095	2.36	3.73	74	43
					38	5.137	6.402	7.862	9.534	11.429	13.556	15.919						
					43	4.691	5.882	7.254	8.823	10.604	12.608	14.842						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	7.297	9.016	11.023	13.339	15.977	18.944	22.242						
					32	6.816	8.459	10.371	12.573	15.080	17.902	21.044	8.802	3.582	2.46	3.66	77	46
					38	6.216	7.763	9.554	11.613	13.958	16.602	19.552						
					43	5.700	7.160	8.845	10.781	12.986	15.478	18.266						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	8.919	11.065	13.551	16.392	19.595	23.158	27.073						
					32	8.289	10.331	12.687	15.374	18.402	21.774	25.487	10.765	5.060	2.13	3.15	77	46
					38	7.516	9.428	11.622	14.120	16.935	20.075	23.543						
					43	6.858	8.656	10.712	13.048	15.682	18.626	21.888						

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz**(2)** Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	2.372	2.942	3.595	4.338	5.175	6.110	7.142					69	38
					32	2.193	2.731	3.348	4.050	4.843	5.729	6.711	3.409	1.647	2.07			
					38	1.965	2.464	3.035	3.685	4.422	5.248	6.169						
					43	-	2.229	2.759	3.365	4.053	4.828	5.696						
OP-MPXM034ML	114X4261	P00	MLZ015T5	G	27	2.360	2.934	3.592	4.340	5.182	6.120	7.153					69	38
					32	2.195	2.736	3.356	4.061	4.856	5.743	6.725	3.418	1.604	2.13			
					38	1.992	2.491	3.063	3.715	4.451	5.277	6.194						
					43	-	2.283	2.812	3.416	4.102	4.875	5.737						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	3.178	3.933	4.791	5.759	6.840	8.035	9.343					69	38
					32	2.930	3.640	4.446	5.355	6.372	7.499	8.738	4.535	2.237	2.03			
					38	2.622	3.274	4.014	4.850	5.788	6.832	7.985						
					43	-	2.957	3.639	4.411	5.281	6.254	7.335						
OP-MPXM046ML	114X4281	P00	MLZ021T5	G	27	3.182	3.942	4.809	5.791	6.890	8.108	9.445					69	38
					32	2.949	3.663	4.477	5.400	6.437	7.589	8.858	4.568	2.352	1.94			
					38	2.665	3.318	4.065	4.914	5.871	6.941	8.127						
					43	-	3.025	3.713	4.496	5.384	6.382	7.495						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	3.811	4.724	5.742	6.868	8.104	9.450	10.901					70	39
					32	3.473	4.333	5.289	6.345	7.506	8.770	10.138	5.406	2.940	1.84	3.15		
					38	3.048	3.841	4.718	5.688	6.754	7.919	9.186						
					43	-	3.412	4.221	5.114	6.099	7.179	8.360						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	3.863	4.769	5.790	6.932	8.193	9.572	11.064					70	39
					32	3.561	4.404	5.354	6.416	7.593	8.883	10.284	5.475	3.082	1.78	2.93		
					38	3.185	3.945	4.803	5.766	6.836	8.016	9.306						
					43	-	3.548	4.323	5.197	6.175	7.260	8.454						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	4.812	5.958	7.265	8.744	10.404	12.248	14.278					73	42
					32	4.447	5.529	6.761	8.157	9.726	11.473	13.403	6.890	3.266	2.11	3.30		
					38	3.993	4.993	6.132	7.424	8.879	10.507	12.313						
					43	-	4.531	5.587	6.788	8.146	9.671	11.373						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	4.860	5.997	7.295	8.767	10.419	12.259	14.287					73	42
					32	4.485	5.559	6.783	8.172	9.734	11.476	13.402	6.911	3.138	2.20	3.48		
					38	4.012	5.003	6.134	7.418	8.867	10.490	12.292						
					43	-	4.516	5.564	6.758	8.109	9.629	11.326						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	5.554	6.850	8.310	9.943	11.753	13.739	15.900					73	42
					32	5.167	6.388	7.759	9.290	10.988	12.855	14.891	7.919	3.985	1.99	3.07		
					38	4.680	5.803	7.062	8.467	10.027	11.747	13.631						
					43	-	5.292	6.452	7.747	9.188	10.783	12.539						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	5.654	6.949	8.417	10.066	11.901	13.922	16.126					73	42
					32	5.214	6.433	7.812	9.361	11.088	12.995	15.081	7.969	3.716	2.14	3.49		
					38	4.667	5.786	7.053	8.479	10.073	11.838	13.779						
					43	-	5.227	6.395	7.714	9.192	10.836	12.654						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	7.357	9.067	10.997	13.154	15.541	18.156	20.992					74	43
					32	6.775	8.377	10.182	12.201	14.439	16.897	19.572	10.403	5.300	1.96	3.31		
					38	6.050	7.513	9.161	11.008	13.061	15.326	17.804						
					43	-	6.764	8.274	9.971	11.865	13.964	16.275						

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MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz**(2)** Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	8.752	10.784	13.088	15.678	18.560	21.734	25.194						
					32	8.094	10.001	12.160	14.589	17.297	20.286	23.558	12.411	5.856	2.12	3.42	77	46
					38	7.274	9.018	10.993	13.220	15.711	18.474	21.514						
					43	-	8.166	9.979	12.030	14.333	16.901	19.744						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	10.583	13.218	16.207	19.567	23.303	27.413	31.890						
					32	9.654	12.132	14.943	18.105	21.627	25.514	29.760	15.258	7.988	1.91	3.13	77	46
					38	8.496	10.769	13.351	16.263	19.520	23.128	27.093						
					43	-	9.587	11.965	14.658	17.683	21.051	24.775						

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPBM018AJ	114X4230	P00	CAJ9510Z	G	27	0.932	1.233	1.594	2.022	2.527	3.114	3.791	1.491	0.781	1.91		69	38
					32	0.854	1.134	1.469	1.868	2.339	2.889	3.524						
					38	-	1.015	1.321	1.685	2.117	2.622	3.209						
					43	-	0.916	1.199	1.535	1.934	2.404	2.950						
OP-MPBM024AJ	114X4200	P00	CAJ9513Z	G	27	1.153	1.549	2.021	2.577	3.222	3.960	4.796	1.876	0.902	2.08		69	38
					32	1.041	1.409	1.847	2.363	2.964	3.655	4.439						
					38	-	1.244	1.643	2.113	2.663	3.297	4.021						
					43	-	1.107	1.475	1.909	2.417	3.006	3.679						
OP-MPBM026AJ	114X4212	P00	CAJ4517Z	G	27	1.321	1.737	2.227	2.802	3.469	4.235	5.103	2.080	1.009	2.06		69	38
					32	1.203	1.591	2.047	2.582	3.205	3.923	4.739						
					38	-	1.416	1.833	2.323	2.894	3.554	4.309						
					43	-	1.271	1.657	2.109	2.638	3.252	3.956						
OP-MPBM034AJ	114X4226	P00	CAJ4519Z	G	27	1.650	2.185	2.805	3.521	4.340	5.269	6.309	2.627	1.416	1.86		69	38
					32	1.498	2.000	2.581	3.251	4.018	4.889	5.866						
					38	-	1.776	2.310	2.925	3.630	4.431	5.333						
					43	-	1.588	2.083	2.652	3.306	4.050	4.889						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	2.367	2.937	3.590	4.334	5.172	6.108	7.142	3.409	1.647	2.07		69	38
					32	2.187	2.726	3.343	4.046	4.839	5.727	6.711						
					38	1.960	2.458	3.029	3.681	4.418	5.246	6.169						
					43	-	2.224	2.754	3.360	4.049	4.826	5.696						
OP-MPXM034ML	114X4261	P00	MLZ015T5	G	27	2.355	2.929	3.587	4.336	5.179	6.118	7.153	3.418	1.604	2.13		69	38
					32	2.189	2.731	3.351	4.057	4.852	5.741	6.725						
					38	1.987	2.486	3.058	3.710	4.447	5.274	6.194						
					43	-	2.277	2.807	3.412	4.098	4.872	5.737						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	3.171	3.926	4.785	5.753	6.835	8.032	9.343	4.535	2.237	2.03		69	38
					32	2.923	3.633	4.439	5.349	6.367	7.497	8.738						
					38	2.615	3.267	4.007	4.843	5.783	6.829	7.985						
					43	-	2.950	3.632	4.405	5.276	6.251	7.335						
OP-MPXM046ML	114X4281	P00	MLZ021T5	G	27	3.175	3.935	4.802	5.785	6.885	8.106	9.445	4.568	2.352	1.94		69	38
					32	2.942	3.655	4.470	5.394	6.432	7.586	8.858						
					38	2.657	3.311	4.058	4.908	5.866	6.938	8.127						
					43	-	3.018	3.705	4.490	5.379	6.379	7.495						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	3.803	4.716	5.734	6.861	8.099	9.446	10.901	5.406	2.940	1.84	3.15	70	39
					32	3.464	4.325	5.281	6.338	7.500	8.767	10.138						
					38	3.040	3.832	4.710	5.680	6.748	7.916	9.186						
					43	-	3.403	4.213	5.107	6.093	7.176	8.360						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	3.855	4.760	5.782	6.924	8.188	9.569	11.064	5.475	3.082	1.78	2.93	70	39
					32	3.553	4.395	5.345	6.409	7.587	8.880	10.284						
					38	3.176	3.936	4.795	5.758	6.830	8.013	9.306						
					43	-	3.539	4.315	5.190	6.169	7.257	8.454						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	4.802	5.948	7.255	8.735	10.397	12.244	14.278	6.890	3.266	2.11	3.30	73	42
					32	4.436	5.518	6.751	8.148	9.719	11.469	13.403						
					38	3.983	4.982	6.121	7.414	8.872	10.503	12.313						
					43	-	4.520	5.577	6.779	8.139	9.667	11.373						

MBP

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

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

This table continues on the next page

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 dBA	Sound pressure level 10 m dB(A)
						Te [°C]							Q [kW]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	4.849	5.986	7.285	8.758	10.412	12.255	14.287						
					32	4.475	5.548	6.773	8.163	9.727	11.472	13.402	6.911	3.138	2.20	3.48	73	42
					38	4.001	4.992	6.123	7.409	8.860	10.486	12.292						
					43	-	4.505	5.553	6.748	8.102	9.625	11.326						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	5.542	6.838	8.298	9.933	11.744	13.735	15.900						
					32	5.155	6.375	7.747	9.279	10.980	12.850	14.891	7.919	3.985	1.99	3.07	73	42
					38	4.667	5.790	7.049	8.456	10.018	11.742	13.631						
					43	-	5.279	6.439	7.736	9.180	10.778	12.539						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	5.641	6.937	8.405	10.056	11.893	13.917	16.126						
					32	5.202	6.420	7.800	9.351	11.080	12.990	15.081	7.969	3.716	2.14	3.49	73	42
					38	4.654	5.774	7.041	8.469	10.064	11.833	13.779						
					43	-	5.214	6.383	7.703	9.183	10.832	12.654						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	7.341	9.051	10.981	13.140	15.530	18.149	20.992						
					32	6.758	8.360	10.166	12.187	14.428	16.891	19.572	10.403	5.300	1.96	3.31	74	43
					38	6.033	7.496	9.145	10.994	13.050	15.319	17.804						
					43	-	6.748	8.258	9.957	11.854	13.958	16.275						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	8.733	10.765	13.070	15.662	18.547	21.726	25.194						
					32	8.075	9.981	12.142	14.573	17.284	20.279	23.558	12.411	5.856	2.12	3.42	77	46
					38	7.255	8.998	10.974	13.204	15.698	18.466	21.514						
					43	-	8.146	9.960	12.013	14.320	16.893	19.744						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	10.560	13.195	16.185	19.547	23.287	27.404	31.890						
					32	9.631	12.108	14.920	18.084	21.611	25.504	29.760	15.258	7.988	1.91	3.13	77	46
					38	8.473	10.745	13.328	16.243	19.504	23.119	27.093						
					43	-	9.564	11.942	14.638	17.667	21.042	24.775						

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPBM018AJ	114X4230	P00	CAJ9510Z	G	27	0.957	1.220	1.526	1.879	2.280	2.732	3.234						
					32	0.867	1.111	1.393	1.718	2.088	2.506	2.971	1.457	0.887	1.64		69	38
					38	0.758	0.978	1.231	1.523	1.856	2.233	2.654						
					43	0.665	0.866	1.095	1.359	1.660	-	-						
OP-MPBM024AJ	114X4200	P00	CAJ9513Z	G	27	1.194	1.550	1.962	2.434	2.967	3.559	4.210						
					32	1.069	1.398	1.778	2.213	2.704	3.253	3.856	1.858	1.018	1.83		69	38
					38	0.919	1.215	1.557	1.948	2.390	2.885	3.432						
					43	0.792	1.062	1.372	1.726	2.127	-	-						
OP-MPBM026AJ	114X4212	P00	CAJ4517Z	G	27	1.364	1.733	2.156	2.639	3.185	3.792	4.460						
					32	1.230	1.571	1.963	2.408	2.912	3.474	4.094	2.053	1.144	1.80		69	38
					38	1.068	1.377	1.729	2.129	2.583	3.090	3.652						
					43	0.932	1.214	1.533	1.895	2.306	-	-						
OP-MPBM034AJ	114X4226	P00	CAJ4519Z	G	27	1.723	2.213	2.768	3.393	4.093	4.868	5.713						
					32	1.549	2.006	2.520	3.099	3.746	4.461	5.244	2.639	1.589	1.66		69	38
					38	1.337	1.753	2.217	2.738	3.320	3.964	4.670						
					43	1.160	1.540	1.961	2.433	2.959	-	-						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	2.416	2.968	3.599	4.314	5.115	6.001	6.972						
					32	2.235	2.745	3.328	3.990	4.734	5.560	6.471	3.490	1.727	2.02		69	38
					38	2.013	2.470	2.995	3.591	4.264	5.017	5.854						
					43	1.823	2.235	2.708	3.248	3.861	-	-						
OP-MPXM034ML	114X4261	P00	MLZ015T5	G	27	2.435	2.988	3.622	4.341	5.145	6.036	7.014						
					32	2.250	2.762	3.350	4.017	4.767	5.602	6.521	3.512	1.744	2.01		69	38
					38	2.020	2.480	3.010	3.613	4.295	5.059	5.907						
					43	1.824	2.237	2.715	3.263	3.886	-	-						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	3.254	4.003	4.854	5.810	6.873	8.042	9.315						
					32	2.989	3.684	4.473	5.361	6.351	7.444	8.641	4.695	2.310	2.03		69	38
					38	2.662	3.289	4.001	4.804	5.703	6.702	7.806						
					43	2.382	2.948	3.592	4.322	5.143	-	-						
OP-MPXM046ML	114X4281	P00	MLZ021T5	G	27	3.273	4.021	4.867	5.814	6.863	8.011	9.258						
					32	3.021	3.712	4.495	5.371	6.344	7.414	8.580	4.720	2.422	1.95		69	38
					38	2.708	3.328	4.030	4.818	5.697	6.669	7.737						
					43	2.440	2.996	3.626	4.337	5.135	-	-						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	4.035	4.949	5.981	7.135	8.410	9.805	11.316						
					32	3.694	4.539	5.493	6.560	7.741	9.038	10.450	5.766	2.859	2.02	3.37	70	39
					38	3.267	4.023	4.877	5.834	6.900	8.077	9.367						
					43	2.895	3.571	4.337	5.200	6.165	-	-						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	4.063	4.991	6.034	7.195	8.472	9.863	11.365						
					32	3.748	4.604	5.566	6.636	7.816	9.106	10.503	5.848	2.956	1.98	3.16	70	39
					38	3.354	4.120	4.979	5.936	6.996	8.159	9.430						
					43	3.013	3.698	4.467	5.326	6.282	-	-						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	4.911	6.018	7.288	8.727	10.338	12.120	14.073						
					32	4.537	5.559	6.731	8.063	9.559	11.223	13.055	7.062	3.363	2.1	3.39	73	42
					38	4.079	4.993	6.044	7.242	8.597	10.115	11.801						
					43	3.690	4.508	5.453	6.537	7.771	-	-						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	4.934	6.035	7.292	8.710	10.292	12.035	13.938						
					32	4.560	5.576	6.736	8.048	9.515	11.139	12.921	7.070	3.502	2.02	3.21	73	42
					38	4.098	5.007	6.046	7.224	8.550	10.027	11.662						
					43	3.702	4.516	5.449	6.513	7.717	-	-						

This table continues on the next page

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	5.728	7.015	8.474	10.109	11.923	13.916	16.084						
					32	5.246	6.443	7.798	9.319	11.010	12.875	14.913	8.183	3.917	2.09	3.44	73	42
					38	4.644	5.724	6.949	8.328	9.867	11.574	13.454						
					43	4.122	5.100	6.210	7.465	8.873	-	-						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	5.708	7.011	8.488	10.142	11.976	13.987	16.172						
					32	5.241	6.449	7.818	9.354	11.060	12.938	14.989	8.209	4.157	1.97	3.14	73	42
					38	4.661	5.748	6.980	8.366	9.914	11.628	13.513						
					43	4.162	5.140	6.251	7.507	8.917	-	-						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	7.664	9.383	11.323	13.486	15.872	18.475	21.287						
					32	6.993	8.581	10.374	12.376	14.589	17.011	19.641	10.904	5.444	2	3.39	74	43
					38	6.157	7.575	9.179	10.978	12.975	15.175	17.584						
					43	5.433	6.699	8.136	9.756	11.567	-	-						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	9.210	11.328	13.729	16.422	19.412	22.695	26.267						
					32	8.436	10.404	12.635	15.140	17.927	20.998	24.354	13.252	6.120	2.17	3.49	77	46
					38	7.469	9.242	11.255	13.523	16.058	18.866	21.958						
					43	6.634	8.232	10.052	12.111	14.426	-	-						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	11.175	13.803	16.738	19.988	23.548	27.412	31.573						
					32	10.156	12.607	15.341	18.367	21.687	25.302	29.210	16.122	8.411	1.92	3.12	77	46
					38	8.876	11.096	13.572	16.317	19.338	22.645	26.245						
					43	7.765	9.777	12.023	14.520	17.283	-	-						

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz**(2)** Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPBM018AJ	114X4230	P00	CAJ9510Z	G	27	1.184	1.477	1.818	2.209	2.651	3.146	3.694						
					32	1.078	1.351	1.666	2.024	2.429	2.881	3.382	1.746	0.903	1.93		69	38
					38	-	-	1.480	1.800	2.160	2.561	3.005						
					43	-	-	1.324	1.612	1.933	2.292	2.688						
OP-MPBM024AJ	114X4200	P00	CAJ9513Z	G	27	-	1.822	2.288	2.820	3.418	4.082	4.808						
					32	-	1.638	2.067	2.557	3.108	3.720	4.392	2.168	1.045	2.07		69	38
					38	-	1.417	1.804	2.243	2.738	3.288	3.895						
					43	-	1.235	1.586	1.983	2.431	2.930	3.482						
OP-MPBM026AJ	114X4212	P00	CAJ4517Z	G	27	1.626	2.039	2.517	3.061	3.674	4.356	5.104						
					32	1.459	1.844	2.285	2.788	3.353	3.982	4.675	2.399	1.172	2.05		69	38
					38	1.259	1.609	2.007	2.459	2.967	3.533	4.159						
					43	-	1.413	1.776	2.185	2.644	3.157	3.728						
OP-MPBM034AJ	114X4226	P00	CAJ4519Z	G	27	2.015	2.547	3.147	3.819	4.563	5.376	6.257						
					32	1.802	2.300	2.859	3.480	4.166	4.916	5.729	3.008	1.650	1.82		69	38
					38	1.544	2.000	2.506	3.065	3.680	4.353	5.085						
					43	-	1.749	2.209	2.715	3.270	3.878	4.541						
OP-MPXM034ML	114X4201	P05	MLZ015T4	E	27	2.502	3.081	3.734	4.463	5.272	6.158	7.121						
					32	2.251	2.793	3.398	4.073	4.820	5.640	6.535	3.580	1.693	2.11		69	38
					38	1.926	2.424	2.974	3.584	4.258	5.001	5.814						
					43	1.634	2.095	2.600	3.157	3.772	4.451	5.198						
OP-MPXM046ML	114X4202	P05	MLZ021T4	E	27	3.404	4.124	4.928	5.824	6.815	7.905	9.099						
					32	3.108	3.772	4.514	5.340	6.257	7.271	8.390	4.778	2.350	2.03		69	38
					38	2.729	3.325	3.990	4.731	5.559	6.482	7.511						
					43	2.392	2.930	3.529	4.199	4.952	5.798	6.754						
OP-MPXM057ML	114X4290	P00	MLZ026T5	G	27	3.973	4.806	5.741	6.777	7.912	9.142	10.467						
					32	3.619	4.382	5.238	6.189	7.234	8.373	9.609	5.571	3.291	1.69	2.90	68	37
					38	3.179	3.855	4.615	5.460	6.396	7.424	8.553						
					43	2.795	3.397	4.073	4.830	5.673	6.609	7.650						
OP-MPXM057ML	114X4203	P05	MLZ026T4	E	27	3.977	4.812	5.749	6.788	7.926	9.162	10.493						
					32	3.625	4.390	5.249	6.203	7.252	8.397	9.639	5.580	3.164	1.76	3.01	70	39
					38	3.189	3.868	4.630	5.480	6.420	7.455	8.590						
					43	2.809	3.414	4.094	4.855	5.703	6.645	7.693						
OP-MPXM068ML	114X4303	P05	MLZ030T4	E	27	5.271	6.443	7.784	9.300	10.998	12.880	14.945						
					32	4.832	5.926	7.177	8.594	10.185	11.954	13.907	7.566	3.279	2.31	3.73	73	42
					38	4.284	5.279	6.418	7.711	9.170	10.803	12.618						
					43	3.809	4.717	5.758	6.945	8.291	9.806	11.506						
OP-MPXM068ML	114X4308	P00	MLZ030T5	G	27	5.273	6.446	7.786	9.302	10.997	12.876	14.938						
					32	4.832	5.927	7.178	8.594	10.182	11.949	13.898	7.568	3.353	2.26	3.66	73	42
					38	4.283	5.278	6.417	7.709	9.166	10.795	12.606						
					43	3.806	4.714	5.755	6.941	8.284	9.797	11.492						
OP-MPXM080ML	114X4304	P05	MLZ038T4	E	27	6.238	7.571	9.084	10.780	12.662	14.727	16.973						
					32	5.708	6.948	8.353	9.930	11.682	13.612	15.720	8.822	3.856	2.29	3.71	73	42
					38	5.026	6.146	7.415	8.842	10.434	12.197	14.137						
					43	4.423	5.435	6.584	7.881	9.335	10.956	12.755						

This table continues on the next page

MBP

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

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

(2) Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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]	P [kW]	COP	SEPR		
						-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C						
OP-MPXM080ML	114X4321	P00	MLZ038T5	G	27	6.066	7.469	9.041	10.768	12.634	14.626	16.730						
					32	5.504	6.806	8.273	9.892	11.650	13.536	15.538	8.735	4.027	2.17	3.33	73	42
					38	4.826	5.992	7.319	8.797	10.415	12.164	14.039						
					43	4.268	5.307	6.506	7.857	9.349	10.976	12.738						
OP-MPXM108ML	114X4305	P05	MLZ048T4	E	27	7.856	9.491	11.303	13.308	15.517	17.940	20.584						
					32	7.147	8.653	10.321	12.168	14.209	16.459	18.932	10.943	5.478	2.00	3.31	74	43
					38	6.248	7.596	9.087	10.742	12.581	14.623	16.892						
					43	5.457	6.671	8.012	9.504	11.172	13.041	15.144						
OP-MPXM125ML	114X4401	P05	MLZ058T4	E	27	9.409	11.580	14.000	16.676	19.608	22.795	26.233						
					32	8.513	10.552	12.820	15.326	18.074	21.068	24.310	13.539	6.214	2.18	3.48	77	46
					38	7.385	9.257	11.334	13.628	16.149	18.906	21.911						
					43	6.404	8.125	10.034	12.145	14.472	17.028	19.836						
OP-MPXM162ML	114X4402	P05	MLZ076T4	E	27	12.516	15.012	17.725	20.689	23.929	27.465	31.318						
					32	11.400	13.616	16.030	18.678	21.592	24.799	28.325	16.975	8.520	1.99	3.23	77	46
					38	10.034	11.882	13.909	16.158	18.665	21.464	24.592						
					43	8.881	10.396	12.079	13.976	16.130	18.579	21.368						

MBP**(1) G** - Compressor 230V/1~/50Hz, fan 230V/1~/50Hz**E** - Compressor 400V/3~/50Hz, fan 230V/1~/50Hz**(2)** Nominal conditions (EN13215), Evaporating temperatures at 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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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
							(m²/h)	(dm³)						(mm)	(L)	mm			
LBP	114X3216	OP-LPQM026AJP00G	CAJ2446Z	G	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
LBP	114X3225	OP-LPQM048NTP00G	NTZ048-5	G	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	102	80
LBP	114X3233	OP-LPQM048NTP00E	NTZ048-4	E	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	102	80
LBP	114X3253	OP-LPQM074FHP00E	TFH2511Z	E	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	106	89
LBP	114X3252	OP-LPQM074FHP00G	FH2511Z	G	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	111	94
LBP	114X3241	OP-LPQM068NTP00G	NTZ068-5	G	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	102	80
LBP	114X3249	OP-LPQM068NTP00E	NTZ068-4	E	Q	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	5/8"	3/8"	102	80
LBP	114X3357	OP-LPQM096NTP00E	NTZ096-4	E	Q	G7	5,200	1.69	1	500	6.2	H3	967	1406	481	7/8"	1/2"	143	107
LBP	114X3371	OP-LPOM067LLP02E	LLZ013T4	E	O	G7	5200	1.62	1	500	6.2	H3	965	531	1441	3/4"	1/2"	161	135
LBP	114X3372	OP-LPOM084LLP02E	LLZ015T4	E	O	G7	5200	1.62	1	500	6.2	H3	965	531	1441	3/4"	1/2"	161	135
LBP	114X3373	OP-LPOM098LLP02E	LLZ018T4	E	O	G7	5200	1.62	1	500	6.2	H3	965	531	1441	3/4"	1/2"	162	136
LBP	114X3485	OP-LPOM120LLP02E	LLZ024T4	E	O	J7	9500	1.97	2	500	10	H4	966	650	1835	1 1/8"	3/4"	212	161
LBP	114X3486	OP-LPOM168LLP02E	LLZ034T4	E	O	J7	9500	1.97	2	500	10	H4	966	650	1835	1 1/8"	3/4"	217	166
MBP	114X4230	OP-MPBM018AJP00G	CAJ9510Z	G	B	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
MBP	114X4200	OP-MPBM024AJP00G	CAJ9513Z	G	B	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
MBP	114X4212	OP-MPBM026AJP00G	CAJ4517Z	G	B	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
MBP	114X4220	OP-MPGM033AJP00G	CAJ4511Y	G	G	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
MBP	114X4226	OP-MPBM034AJP00G	CAJ4519Z	G	B	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	1/2"	3/8"	97	80
MBP	114X4261	OP-MPXM034MLP00G	MLZ015T5	G	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4281	OP-MPXM046MLP00G	MLZ021T5	G	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4290	OP-MPXM057MLP00G	MLZ026T5	G	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4308	OP-MPXM068MLP00G	MLZ030T5	G	X	G7	5,200	1.62	1	500	6.2	H3	965	1441	531	7/8"	5/8"	137	101
MBP	114X4321	OP-MPXM080MLP00G	MLZ038T5	G	X	G7	5,200	1.62	1	500	6.2	H3	965	1441	531	7/8"	5/8"	137	101
MBP	114X4201	OP-MPXM034MLP05E	MLZ015T4	E	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4202	OP-MPXM046MLP05E	MLZ021T4	E	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4203	OP-MPXM057MLP05E	MLZ026T4	E	X	D7	3,300	0.58	1	450	3.4	H2	813	1090	480	3/4"	1/2"	109	87
MBP	114X4303	OP-MPXM068MLP05E	MLZ030T4	E	X	G7	5,200	1.62	1	500	6.2	H3	965	1441	531	7/8"	5/8"	137	101
MBP	114X4304	OP-MPXM080MLP05E	MLZ038T4	E	X	G7	5,200	1.62	1	500	6.2	H3	965	1441	531	7/8"	5/8"	137	101
MBP	114X4305	OP-MPXM108MLP05E	MLZ048T4	E	X	G7	5,200	1.62	1	500	6.2	H3	965	1441	531	7/8"	5/8"	137	101
MBP	114X4401	OP-MPXM125MLP05E	MLZ058T4	E	X	J7	9,500	1.97	2	500	10	H4	966	1835	650	1 1/8"	3/4"	218	169
MBP	114X4402	OP-MPXM162MLP05E	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) G - R134a

X - R134a, R404A/R507, R407A, R407F, R449A, R448A, R513A, R452A

Y - R404A/R507, R449A

Q - R404A/R507, R452A

B - R404A/R507, R452A, R448A, R449A

Designation	LPQM026AJ	LPQM048NT	LPQM048NT	LPQM068NT	LPQM068NT	LPQM074FH
Code Number	114X3216	114X3225	114X3233	114X3241	114X3249	114X3252
Compressor Description	CAJ2446Z	NTZ048-5	NTZ048-4	NTZ068-5	NTZ068-4	FH2511Z
Oil	RL32HA/HT	175PZ-POE	175PZ-POE	175PZ-POE	175PZ-POE	RL32HA/HT
Housing	H2	H2	H2	H2	H2	H2
Spare Parts						
Compressor single pack	118U3992	120F0228	120F0226	120F0232	120F0230	118U3914
Condenser	118U5218	118U5218	118U5218	118U5218	118U5218	118U5218
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021	118U4021
Fan blade	118U3481	118U3481	118U3481	118U3481	118U3481	118U3481
Fan capacitor	118U3297	118U3297	118U3297	118U3297	118U3297	118U3297
Fan cowl/grill	118U3484	118U3484	118U3484	118U3484	118U3484	118U3484
Fan motor	118U3823	118U3823	118U3823	118U3823	118U3823	118U3823
Filter drier	023Z5040	023Z5040	023Z5040	023Z5040	023Z5040	023Z5040
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7051	009G7051	009G7051	009G7051	009G7051	009G7051
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4012	118U4012	118U4012	118U4012	118U4012	118U4012
Sight glass	014L0172	014L0172	014L0172	014L0172	014L0172	014L0172
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7051	009G7053	009G7053	009G7053	009G7053	009G7053
Electrical Spare Parts						
Crankcase heater	118U0051	120Z0459	120Z0459	120Z0459	120Z0459	120Z0459
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3845	118U3846	118U3845	118U3848	118U3845	118U3845
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858	118U3858
Main switch kit	118U3851	118U3852	118U3853	118U3854	118U3851	118U3853
Run capacitor	118U5191*	8173041	-	8173041	-	118U5199*
Starting capacitor		8173001	-	8173001	-	
Starting relay		8173022	-	8173022	-	
Electrical Characteristics						
Wiring Diagram	WD2	WD1	WD5	WD1	WD5	WD2
LRA Compressor [A]	29	37	16	53	25	81
MCC Compressor [A]	7.9	11	4.8	17	8.4	24
Max cont.power [kW]	1.31	2.19	2.28	3.62	3.57	3.45
MCC Fan [A]	0.47	0.47	0.47	0.47	0.47	0.47
Fan Power [W]	1x68	1x68	1x68	1x68	1x68	1x68
Min Fuse rating gL/gG (A)	16	20	10	25	16	32
Accessories (Not Premounted)						
Acoustic hood	-	120Z0575	120Z0575	120Z0575	120Z0575	-
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories						
External Dislay & settings	084B8575	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal						
Top Panel	118U5126	118U5126	118U5126	118U5126	118U5126	118U5126
Fan Panel	118U5127	118U5127	118U5127	118U5127	118U5127	118U5127
Back Panel	118U5128	118U5128	118U5128	118U5128	118U5128	118U5128
Front Panel	118U5129	118U5129	118U5129	118U5129	118U5129	118U5129
Access Panel	118U5130	118U5130	118U5130	118U5130	118U5130	118U5130
Left side Panel	118U5164	118U5164	118U5164	118U5164	118U5164	118U5164
Fan Panel (LH)	-	-	-	-	-	-
Fan Panel (RH)	-	-	-	-	-	-

MCA - Minimum Circuit Ampacity

MCC - Max Continuous Current

LRA - Locked Rotor Amps

* - Spare part, Starting Kit

Designation	LPQM074FH	LPQM096NT	LPQM136NT	LPQM215LL	LPQM271LL
Code Number	114X3253	114X3357	114X3365	114X3476	114X3482
Compressor Description	TFH2511Z	NTZ096-4	NTZ136-4	LLZ024T4	LLZ034T4
Oil	RL32HA/HT	175PZ-POE	175PZ-POE	215PZ-POE46	215PZ-POE46
Housing	H2	H3	H3	H4	H4
Spare Parts					
Compressor single pack	118U3915	120F0234	120F0236	121L9541	121L9543
Condenser	118U5218	118U5219	118U5219	118U5220	118U5220
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021
Fan assembly	-	118U3829	118U3829	118U3829	118U3829
Fan blade	118U3481	-	-	-	-
Fan capacitor	118U3297	-	-	-	-
Fan cowl/grill	118U3484	118U3485	118U3485	118U3485	118U3485
Fan motor	118U3823				
Filter drier	023Z5040	023Z5044	023Z5044	023Z5046	023Z5046
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7051	009G7052	009G7052	009G7054	009G7054
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4012	118U4016	118U4016	118U4017	118U4017
Sight glass	014L0172	014L0173	014L0173	014L0175	014L0175
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7053	009G7055	009G7056	009G7056	009G7056
Electrical Spare Parts					
Crankcase heater	120Z0459	120Z0459	120Z0459	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3845	118U3846	118U3847	118U3848	118U3848
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858
Main switch kit	118U3855	118U3851	118U3852	118U3855	118U3856
Run capacitor	-	-	-	-	-
Starting capacitor	-	-	-	-	-
Starting relay	-	-	-	-	-
Electrical Characteristics					
Wiring Diagram	WD5	WD11	WD11	WD10	WD10
LRA Compressor [A]	28	32	51	95	150
MCC Compressor [A]	7.2	10.1	14.3	21	26
Max cont.power [kW]	3.34	4.53	6.87	7.96	11.1
MCC Fan [A]	0.47	0.97	0.97	2x0.97	2x0.97
Fan Power [W]	1x68	1x130	1x130	2x130	2x130
Min Fuse rating gL/gG (A)	16	16	20	32	40
Accessories (Not Premounted)					
Acoustic hood	-	120Z0575	120Z0575	120Z5053	120Z5053
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories					
External Display & settings	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal					
Top Panel	118U5126	118U5131	118U5131	118U5136	118U5136
Fan Panel	118U5127	118U5132	118U5132	-	-
Back Panel	118U5128	118U5133	118U5133	118U5139	118U5139
Front Panel	118U5129	118U5134	118U5134	-	-
Access Panel	118U5130	118U5135	118U5135	118U5140	118U5140
Left side Panel	118U5164	118U5165	118U5165	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

Designation	OP-LPOM067LL	OP-LPOM084LL	OP-LPOM098LL	OP-LPOM120LL	OP-LPOM168LL
Code Number	114X3371	114X3372	114X3373	114X3485	114X3486
Compressor Description	LLZ013T4	LLZ015T4	LLZ018T4	LLZ024T4	LLZ034T4
Oil	120Z0648	120Z0648	120Z0648	120Z0648	120Z0648
Housing	H3	H3	H3	H4	H4
Spare Parts					
Compressor single pack	121L9535	121L9537	121L9539	121L9541	121L9543
Condenser	118U5219	118U5219	118U5219	118U5220	118U5220
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021
Fan assembly	118U3829	118U3829	118U3829	118U3829	118U3829
Fan cowl/grill	118U3485	118U3485	118U3485	118U3485	118U3485
Filter drier	023Z5044	023Z5044	023Z5044	023Z5046	023Z5046
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7052	009G7052	009G7052	009G7054	009G7054
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4016	118U4016	118U4016	118U4017	118U4017
Sight glass	014L0173	014L0173	014L0173	014L0175	014L0175
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7054	009G7054	009G7054	009G7056	009G7056
Electric expansion valve	034G5015	034G5015	034G5015	034G5015	034G5015
Electric expansion valve coil	034G5145	034G5145	034G5145	034G5185	034G5185
Liquid injection controller (Module B plus)	118U4010	118U4010	118U4010	118U4010	118U4010
Acoustic hood	120Z5052	120Z5052	120Z5052	120Z5053	120Z5053
Electrical Spare Parts					
Crankcase heater	120Z5040	120Z5040	120Z5040	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3846	118U3847	118U3847	118U3848	118U3849
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858
Main switch kit	118U3852	118U3852	118U3852	118U3855	118U3856
Run capacitor	-	-	-	-	-
Starting capacitor	-	-	-	-	-
Starting relay	-	-	-	-	-
Electrical Characteristics					
Wiring Diagram	WD6	WD6	WD6	WD7	WD7
LRA Compressor [A]	62	88.5	90	95	150
MCC Compressor [A]	12	15	15	21	26
Max cont.power [kW]	4.6	6.2	6.5	8	11.2
MCC Fan [A]	0.97	0.97	0.97	2x0.97	2x0.97
Fan Power [W]	190	190	190	2x190	2x190
Min Fuse rating gL/gG (A)	16	20	20	32	40
Accessories (Not Premounted)					
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories					
External Display & settings	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal					
Top Panel	118U5131	118U5131	118U5131	118U5136	118U5136
Fan Panel	118U5132	118U5132	118U5132	-	-
Back Panel	118U5133	118U5133	118U5133	118U5139	118U5139
Front Panel	118U5134	118U5134	118U5134	-	-
Access Panel	118U5135	118U5135	118U5135	118U5140	118U5140
Left side Panel	118U5165	118U5165	118U5165	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

Designation	MPBM024AJ	MPBM026AJ	MPGM033AJ	MPOM034AJ	MPBM018AJ	MPXM034ML
Code Number	114X4200	114X4212	114X4220	114X4226	114X4230	114X4261
Compressor Description	CAJ9513Z	CAJ4517Z	CAJ4511Y	CAJ4519Z	CAJ9510Z	MLZ015T5
Oil	RL32HA/HT	RL32HA/HT	RL32HA/HT	RL32HA/HT	RL32HA/HT	215PZ-POE46
Housing	H2	H2	H2	H2	H2	H2
Spare Parts						
Compressor single pack	118U3995	118U3993	118U3996	118U3994	118U3988	121L8631
Condenser	118U5218	118U5218	118U5218	118U5218	118U5218	118U5218
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021	118U4021
Fan assembly	-	-	-	-	-	-
Fan blade	118U3481	118U3481	118U3481	118U3481	118U3481	118U3481
Fan capacitor	118U3297	118U3297	118U3297	118U3297	118U3297	118U3297
Fan cowl/grill	118U3484	118U3484	118U3484	118U3484	118U3484	118U3484
Fan motor	118U3823	118U3823	118U3823	118U3823	118U3823	118U3823
Filter drier	023Z5040	023Z5040	023Z5041	023Z5040	023Z5041	023Z5041
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7022	009G7022	009G7022	009G7022	009G7022	009G7052
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4012	118U4012	118U4012	118U4012	118U4012	118U4012
Sight glass	014L0172	014L0172	014L0172	014L0172	014L0172	014L0173
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7021	009G7021	009G7021	009G7021	009G7021	009G7054
Electrical Spare Parts						
Crankcase heater	118U0051	118U0051	118U0051	118U0051	118U0051	120Z5040
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3846	118U3847	118U3845	118U3847	118U3845	118U3848
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858	118U3858
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Main switch kit	118U3852	118U3852	118U3851	118U3852	118U3851	118U3854
Run capacitor						8173231
Starting capacitor	118U5198*	118U5195*	118U5194*	118U5196*	118U5197*	120Z0399
Starting relay						120Z0393
Electrical Characteristics						
Wiring Diagram	WD2	WD2	WD2	WD2	WD2	WD9
LRA Compressor [A]	33.5	38.5	30	45	30	60
MCC Compressor [A]	10.2	12.7	8.9	15.2	8	19
Max cont.power [kW]	1.75	1.96	1.5	2.7	1.3	2.53
MCC Fan [A]	0.47	0.47	0.47	0.47	0.47	0.47
Fan Power [W]	1x68	1x68	1x68	1x68	1x68	1x68
Min Fuse rating gL/gG (A)	20	20	16	20	16	25
Accessories (Not Premounted)						
Acoustic hood	-	-	-	-	-	120Z5043
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories						
External Diplay & settings	084B8575	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal						
Top Panel	118U5126	118U5126	118U5126	118U5126	118U5126	118U5126
Fan Panel	118U5127	118U5127	118U5127	118U5127	118U5127	118U5127
Back Panel	118U5128	118U5128	118U5128	118U5128	118U5128	118U5128
Front Panel	118U5129	118U5129	118U5129	118U5129	118U5129	118U5129
Access Panel	118U5130	118U5130	118U5130	118U5130	118U5130	118U5130
Left side Panel	118U5164	118U5164	118U5164	118U5164	118U5164	118U5164
Fan Panel (LH)	-	-	-	-	-	-
Fan Panel (RH)	-	-	-	-	-	-

MCA - Minimum Circuit Ampacity

MCC - Max Continuous Current

LRA - Locked Rotor Amps

* - Spare part, Starting Kit

Designation	MPXM034ML	MPXM046ML	MPXM046ML	MPXM057ML	MPXM057ML	MPXM068ML
Code Number	114X4201	114X4281	114X4202	114X4290	114X4203	114X4308
Compressor Description	MLZ015T4	MLZ021T5	MLZ021T4	MLZ026T5	MLZ026T4	MLZ030T5
Oil	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46
Housing	H2	H2	H2	H2	H2	H3
Spare Parts						
Compressor single pack	121L8629	121L8635	121L8633	121L8639	121L8637	121L8643
Condenser	118U5218	118U5218	118U5218	118U5218	118U5218	118U5219
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021	118U4021
Fan assembly	-	-	-	-	-	118U3829
Fan blade	118U3481	118U3481	118U3481	118U3481	118U3481	-
Fan capacitor	118U3297	118U3297	118U3297	118U3297	118U3297	-
Fan cowl/grill	118U3484	118U3484	118U3484	118U3484	118U3484	118U3485
Fan motor	118U3823	118U3823	118U3823	118U3823	118U3823	-
Filter drier	023Z5041	023Z5041	023Z5041	023Z5041	023Z5041	023Z5045
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7052	009G7052	009G7052	009G7052	009G7052	009G7053
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4012	118U4012	118U4012	118U4012	118U4012	118U4015
Sight glass	014L0173	014L0173	014L0173	014L0173	014L0173	014L0174
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7054	009G7054	009G7054	009G7054	009G7054	009G7055
Electrical Spare Parts						
Crankcase heater	120Z5040	120Z5040	120Z5040	120Z5040	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3845	118U3848	118U3846	118U3849	118U3846	118U3849
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858	118U3858
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Main switch kit	118U3851	118U3856	118U3852	118U3856	118U3852	118U3857
Run capacitor	-	120Z0051	-	120Z0051	-	8173233
Starting capacitor	-	120Z0399	-	120Z0399	-	120Z0040
Starting relay	-	120Z0393	-	120Z0393	-	120Z0394
Electrical Characteristics						
Wiring Diagram	WD12	WD9	WD12	WD9	WD12	WD3
LRA Compressor [A]	30	97	45	97	45	127
MCC Compressor [A]	7	25	9.5	26	10	32
Max cont.power [kW]	2.73	3.38	3.33	4.42	4.14	4.89
MCC Fan [A]	0.47	0.47	0.47	0.47	0.47	0.97
Fan Power [W]	1x68	1x68	1x68	1x68	1x68	1x130
Min Fuse rating gL/gG (A)	16	40	20	40	20	50
Accessories (Not Premounted)						
Acoustic hood	120Z5043	120Z5043	120Z5043	120Z5043	120Z5043	120Z5044
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories						
External Display & settings	084B8575	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal						
Top Panel	118U5126	118U5126	118U5126	118U5126	118U5126	118U5131
Fan Panel	118U5127	118U5127	118U5127	118U5127	118U5127	118U5132
Back Panel	118U5128	118U5128	118U5128	118U5128	118U5128	118U5133
Front Panel	118U5129	118U5129	118U5129	118U5129	118U5129	118U5134
Access Panel	118U5130	118U5130	118U5130	118U5130	118U5130	118U5135
Left side Panel	118U5164	118U5164	118U5164	118U5164	118U5164	118U5165
Fan Panel (LH)	-	-	-	-	-	-
Fan Panel (RH)	-	-	-	-	-	-

MCA - Minimum Circuit Ampacity

MCC - Max Continuous Current

LRA - Locked Rotor Amps

* - Spare part, Starting Kit

Designation	MPXM068ML	MPXM080ML	MPXM080ML	MPXM108ML	MPXM125ML	MPXM162ML
Code Number	114X4303	114X4321	114X4304	114X4305	114X4401	114X4402
Compressor Description	MLZ030T4	MLZ038T5	MLZ038T4	MLZ048T4	MLZ058T4	MLZ076T4
Oil	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46	215PZ-POE46
Housing	H3	H3	H3	H3	H4	H4
Spare Parts						
Compressor single pack	121L8641	121L8647	121L8645	121L8651	121L8653	121L8655
Condenser	118U5219	118U5219	118U5219	118U5219	118U5220	118U5220
Discharge pressure sensor	118U4021	118U4021	118U4021	118U4021	118U4021	118U4021
Fan assembly	118U3829	118U3829	118U3829	118U3829	118U3829	118U3829
Fan blade	-	-	-	-	-	-
Fan capacitor	-	-	-	-	-	-
Fan cowl/grill	118U3485	118U3485	118U3485	118U3485	118U3485	118U3485
Fan motor	-	-	-	-	-	-
Filter drier	023Z5045	023Z5045	023Z5045	023Z5045	023Z5046	023Z5046
High-pressure switch	118U3718	118U3718	118U3718	118U3718	118U3718	118U3718
Liquid valve	009G7053	009G7053	009G7053	009G7053	009G7054	009G7054
Low-pressure switch	118U3720	118U3720	118U3720	118U3720	118U3720	118U3720
Receiver	118U4015	118U4015	118U4015	118U4015	118U4017	118U4017
Sight glass	014L0174	014L0174	014L0174	014L0174	014L0175	014L0175
Suction pressure sensor	118U4025	118U4025	118U4025	118U4025	118U4025	118U4025
Suction valve	009G7055	009G7055	009G7055	009G7055	009G7056	009G7056
Electrical Spare Parts						
Crankcase heater	120Z5040	120Z5040	120Z5040	120Z5040	120Z5040	120Z5040
Optyma™ Plus Controller	118U3465	118U3465	118U3465	118U3465	118U3465	118U3465
Discharge temperature sensor	084N2007	084N2007	084N2007	084N2007	084N2007	084N2007
Suction and ambient temp sensor	084N0003	084N0003	084N0003	084N0003	084N0003	084N0003
Contact kit	118U3847	118U3850	118U3847	118U3848	118U3847	118U3848
Door handle	118U3858	118U3858	118U3858	118U3858	118U3858	118U3858
Sequence phase relay	118U3882	118U3882	118U3882	118U3882	118U3882	118U3882
Main switch kit	118U3852	118U3857	118U3852	118U3854	118U3855	118U3856
Run capacitor	-	8173234	-	-	-	-
Starting capacitor	-	8173001	-	-	-	-
Starting relay	-	120Z0395	-	-	-	-
Electrical Characteristics						
Wiring Diagram	WD13	WD3	WD13	WD13	WD14	WD14
LRA Compressor [A]	60	130	70	87	95	140
MCC Compressor [A]	13	38	15	16	20	25
Max cont.power [kW]	4.88	5.77	5.78	7.55	9.39	11.41
MCC Fan [A]	0.97	0.47	0.97	0.97	2x0.97	2x0.97
Fan Power [W]	1x130	1x130	1x130	1x130	1x130	1x130
Min Fuse rating gL/gG (A)	20	50	20	25	32	40
Accessories (Not Premounted)						
Acoustic hood	120Z5044	120Z5044	120Z5044	120Z5044	120Z5045	120Z5045
Adapter plug	118U4037	118U4037	118U4037	118U4037	118U4037	118U4037
Fusible Plug	118U5170	118U5170	118U5170	118U5170	118U5170	118U5170
Adap-Kool Accessories						
External Display & settings	084B8575	084B8575	084B8575	084B8575	084B8575	084B8575
Cable for EKA Displays 6 m	084B7299	084B7299	084B7299	084B7299	084B7299	084B7299
Mounting kit for EKA Display	084B8584	084B8584	084B8584	084B8584	084B8584	084B8584
MODBUS Communication Module	084B8571	084B8571	084B8571	084B8571	084B8571	084B8571
Lon-Bus Communication Module	084B8579	084B8579	084B8579	084B8579	084B8579	084B8579
Programming Key	084B8582	084B8582	084B8582	084B8582	084B8582	084B8582
Sheet Metal						
Top Panel	118U5131	118U5131	118U5131	118U5131	118U5136	118U5136
Fan Panel	118U5132	118U5132	118U5132	118U5132	-	-
Back Panel	118U5133	118U5133	118U5133	118U5133	118U5139	118U5139
Front Panel	118U5134	118U5134	118U5134	118U5134	-	-
Access Panel	118U5135	118U5135	118U5135	118U5135	118U5140	118U5140
Left side Panel	118U5165	118U5165	118U5165	118U5165	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

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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	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	
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	
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	
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)	For field replacement of old AKS32 118U3722, Use new 118U4021 - spare part, sensor DST P110 (0 to 32 bar)

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Optyma™ Plus - Spare parts & accessories list

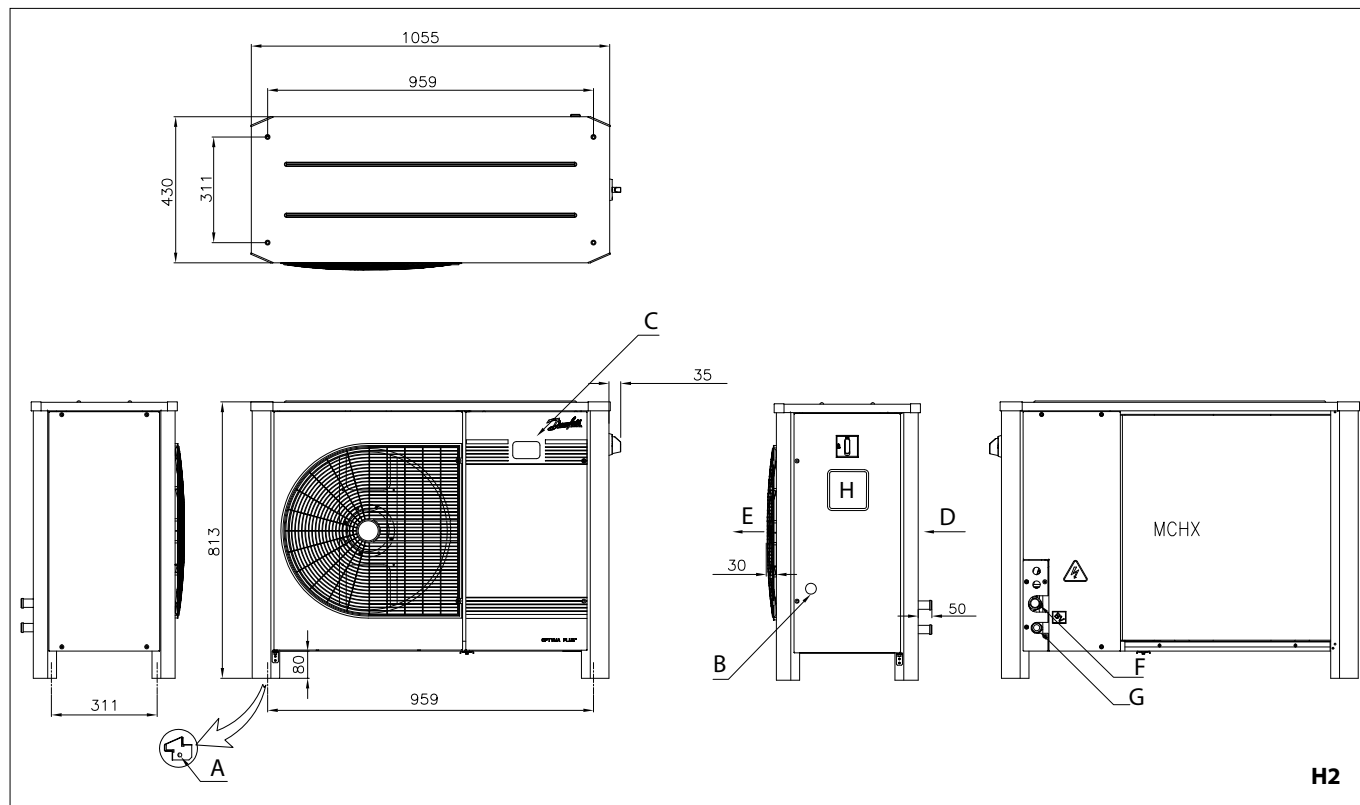
Component type	Component code	Component description	Additional informations
Discharge temperature sensor	084N2007	AKS 21 A -70 TIL 160	
Door handle	118U3858	Door handle, ABB-OHB2AJM, MSMN, OXS5X131	
External Display & settings	084B8575	EKA 164B, Display, Remote setting	
Fan assembly	118U3829	FAN ASSEMBLIES, 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 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 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	
Liquid injection controller	118U4010	Spare Part, Module B Plus	
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	
Programming Key	084B8582	AKA183A	
Receiver	118U4012	Receiver 3.4L, 3/8 NPT	
Receiver	118U4013	Receiver 3.4L, 3/8 NPT (Without Rotor Lock)	
Receiver	118U4014	Receiver 6.2L, 3/8 NPT (Ods 3/8" - Dia 9.7 Rotor Lock)	
Receiver	118U4015	Receiver 6.2L, 3/8 NPT (Ods 5/8" - Dia 16.2 Rotor Lock)	
Receiver	118U4016	Receiver 6.2L, 3/8 NPT (Ods 1/2" - Dia 12.9 Rotor Lock)	
Receiver	118U4017	SPARE PART, RECEIVER 10L, 3/8 NPT	
Receiver	118U4020	SPARE PART, RECEIVER 1.3L, 3/8 NPT	
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 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	
Run C capacitor	123B9219	RUN CAPACITOR 16µF/420V, REF. 321	

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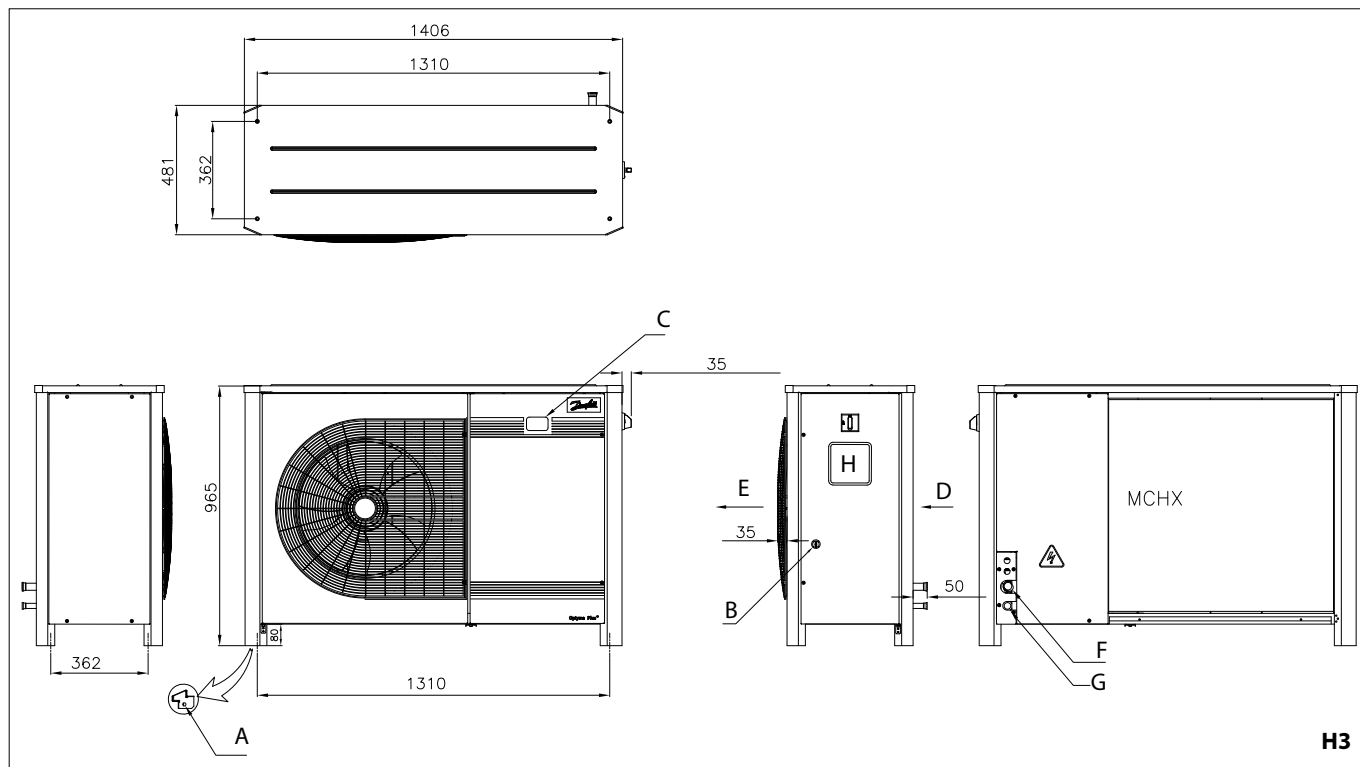
Optyma™ Plus - Spare parts & accessories list

Component type	Component code	Component description	Additional informations
Run C capacitor	123B9222	RUN CAPACITOR 10µF/420V, REF. 326	
Run C capacitor	123B9226	RUN CAPACITOR 25µF/420V, REF. 310 MET.	
Sequence phase relay	118U3882	SM500-MG73BF	
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	
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 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	
Suction pressure sensor	075G1013	Sensor DST P110 (-1 to 12 bar SG)	For field replacement of old AKS32 118U4025, use new 118U4025 - spare part, sensor DST P110 (-1 to 12 bar)
Suc & Amb temp sensor	084N0003	Sensor, AKS11	
Suction valve	009G7055	GBC 22s Ball Valve M/25	
Suction valve	009G7056	GBC 28s Ball Valve M/5	
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	
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	
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 LH panel H4	118U5137	SPARE PART, SHEET METAL FAN LH H4	
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	

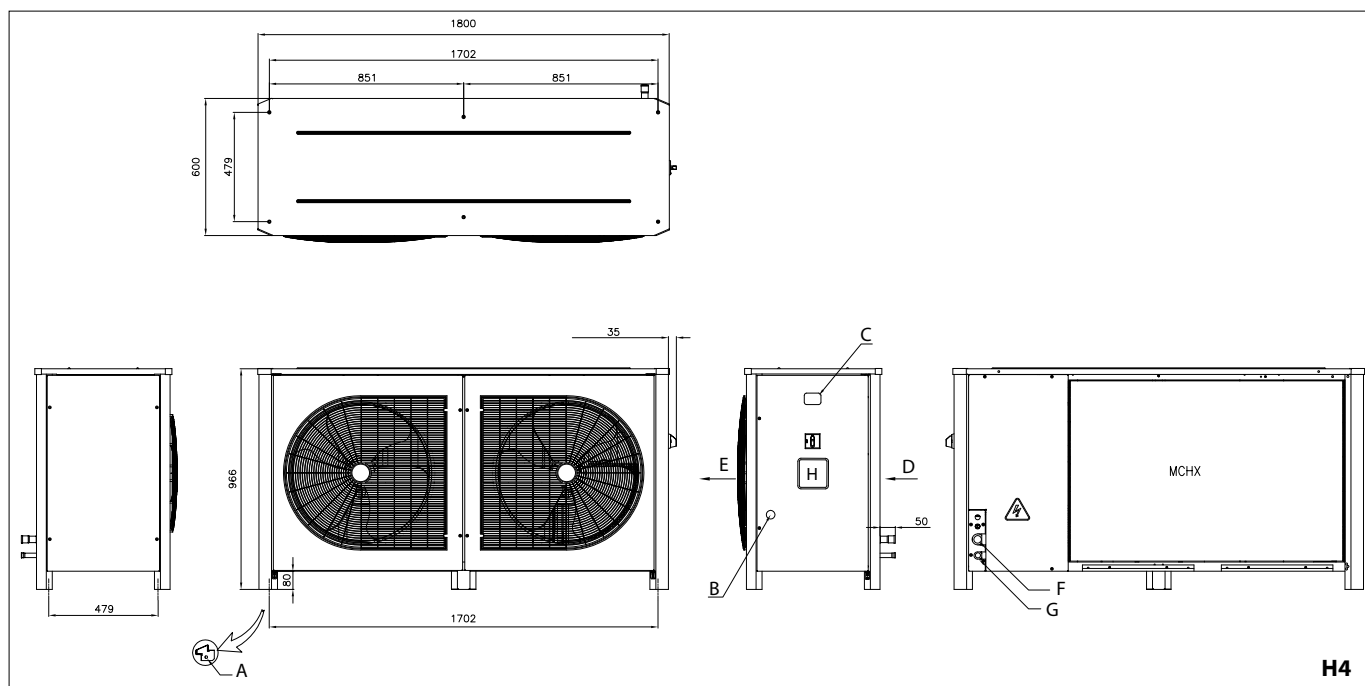
OP-LPQM026-048-068-074 & OP-MPBM018-024-026-034 & OP-MPXM034-046-057 & OP-MPGM033 -34 & OP-MPHM026-034 & OP-LPHM026



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



OP-LPQM215-271 & OP-MPXM125-162



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

- E Air out
- F Suction Port
- G Liquid Port
- H Nameplate

Electrical Cables

Note: all dimension are in mm

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.



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.

Full intelligent control through the Optyma™ Plus Controller

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

Simple plug-and-play installation

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

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

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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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				
OP-MPPM028VVL	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-MPPM035VVL	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-MPPM044VVL	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) Nominal conditions (EN13215), Evaporating temperatures at Mid point, Superheat 10K, Subcooling 0K

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

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input

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

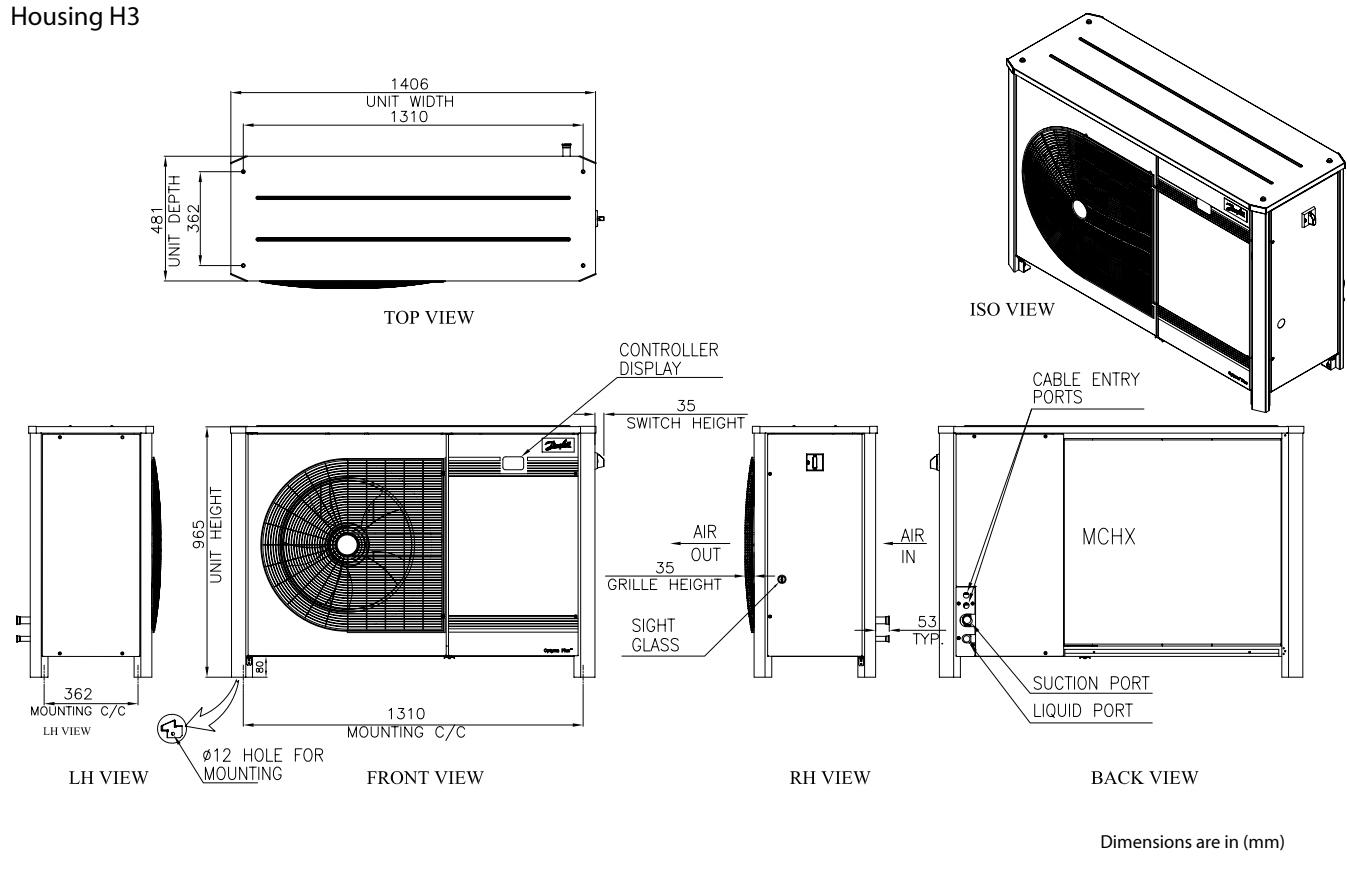
*Phased out model

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 XXXXXC3820, 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	

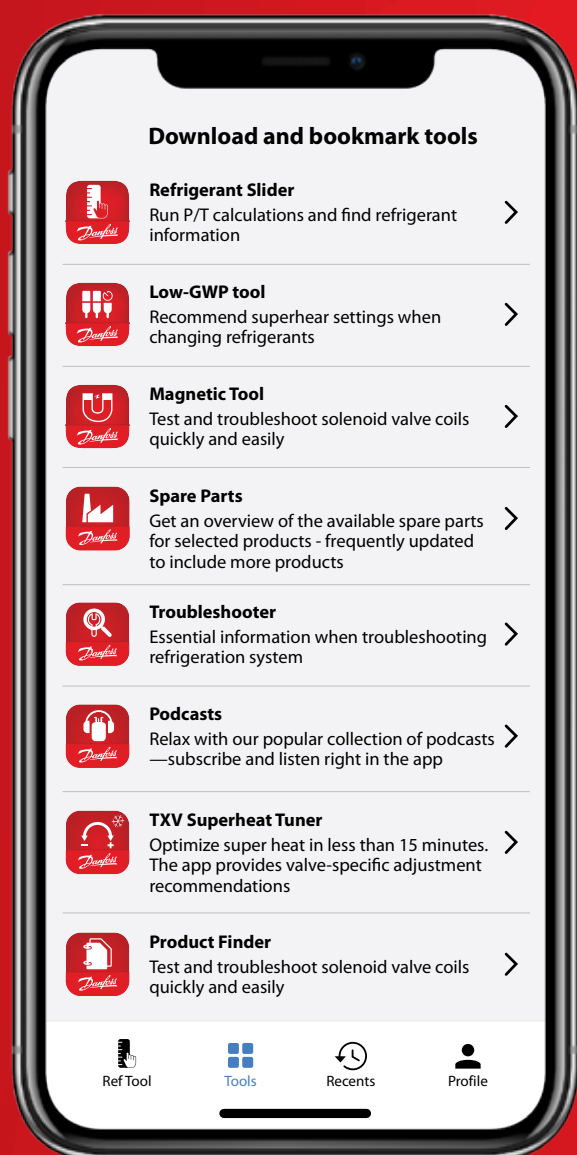
OP-MPLM028-035-044, OP-MPPM028-035-044

Housing H3



For electrical wiring diagrams refer to installation guide AN18718642524202-xxxxxx

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