

LBP – low temperatures

R452A

Unit	Code	Phases	Cooling capacity in [W] at evaporating temperature [°C]							Power consumption [W] at -25°C evap temp	COP at -25°C evap temp	Rated COP at Eco- Design condi- tions	SEPR	Annual electricity consump- tion kWh	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions H x W x D [mm]	Net Weight [kg]
			-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C									
OP-LPQM017	114X3118	1		430	580	740	930	1130	1350	570	1.31	1.03			60	29	652 x 906 x 356	49
OP-LPQM026	114X3216	1	370	540	750	1 010	1 320	1 680	2 110	860	1.18	0.89			67	36		80
OP-LPQM048	114X3233	3	680	1 000	1 400	1 860	2 410	3 030	3 720	1 830	1.18	1.21			69	38		80
OP-LPQM048	114X3225	1	640	960	1 360	1 830	2 380	3 020	3 480	1 250	1.46	1.16			69	38		80
OP-LPQM074	114X3252	1	810	1 230	1 730	2 330	3 030	3 840	4 760	2 110	1.11	0.88			69	38	815 x 1055 x 430	94
	114X3253	3	810	1 220	1 730	2 340	3 060	3 880	4 810	1 960	1.19	0.96			69	38		89
* OP-LPQM068	114X3249	3	1150	1 620	2 160	2 800	3 500	4 280	5 110	1 830	1.53	1.31			70	39		80
	* 114X3241	1	1180	1 640	2 170	2 790	3 490	4 280	5 140	2 110	1.33	1.11			70	39		80 *
OP-LPQM096	114X3357	3	1480	2 100	2 880	3 820	4 930	6 220	7 680	6 650	1.41	1.23	1.62	10 744	72	41	967 x 1406 x 481	107
OP-LPQM136	114X3365	3	2350	3 200	4 320	5 450	6 860	8 450	10 220	3 980	1.37	1.19	1.61	16 467	73	42		107
OP-LPQM215	114X3476	3	3340	4 260	5 360	6 650	8 160	9 910	11 910	4 710	1.41	1.20	1.67	21 203	78	47	966 x 1800 x 600	169
OP-LPQM271	114X3482	3	4780	6 060	7 580	9 350	11 390	13 720	16 340	6 650	1.40	1.24	1.74	29 027	78	47		169

Rating conditions: +32°C ambient temp., superheat 10K, subcooling 0K
EcoDesign rating conditions: +32°C ambient, Subcooling 0 K, RGT20°C

Change for the better

At Danfoss we strongly believe in innovation, but only when it directly benefits our customers. We offer smarter ways of helping you fulfil your daily challenge of producing higher quality solutions at ever more competitive costs.

For more information related to EcoDesign compliance, please refer to Coolselector® at coolselector.danfoss.com or contact Danfoss.



CHILLER OPTION 1

MBP – medium temperatures

R448A

Unit	Code	Phases	Cooling capacity in [W] at evaporating temperature [°C]							Power consumption [W] at -10°C evap temp	COP at -10°C evap temp	Rated COP at Eco- Design conditions	SEPR	Annual electricity consumption kWh	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions H x W x D [mm]	Net Weight [kg]
			-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C									
OP-MPXM034	114X4261	1	2 210	2 750	3 380	4 090	4 900	5 800	6 800	1 590	2.13	2.16			68	37		87
	114X4264	3	2 210	2 750	3 370	4 080	4 880	5 780	6 780	1 630	2.07	2.10			68	37		87
OP-MPXM046	114X4281	1	2 930	3 630	4 440	5 340	6 360	7 490	8 730	2 370	1.87	1.90			68	37	815 x 1055 x 430	87
	114X4284*	3	2 910	3 610	4 400	5 300	6 300	7 400	8 610	2 260	1.95	1.98			68	37		87
OP-MPXM057	114X4290	1	3 530	4 350	5 290	6 330	7 470	8 730	10 080	3 120	1.69	1.72	2.86	11 635	68	37		87
	114X4293	3	3 440	4 280	5 220	6 250	7 390	8 620	9 950	2 970	1.76	1.78	3.07	10 689	68	37		87
OP-MPXM068	114X4308	1	4 530	5 640	6 910	8 360	10 000	11 840	13 870	3 160	2.19	2.22	3.45	12 538	69	38		101
	114X4311	3	4 570	5 670	6 940	8 380	10 010	11 840	13 870	3 030	2.29	2.33	3.63	11 946	69	38		101
OP-MPXM080	114X4321	1	5 270	6 530	7 960	9 560	11 350	13 330	15 510	3 820	2.08	2.11	3.22	15 486	69	38	967 x 1406 x 481	101
	114X4324	3	5 330	6 590	8 020	9 650	11 470	13 490	15 720	3 560	2.26	2.29	3.68	13 664	69	38		101
OP-MPXM108	114X4344	3	6 770	8 380	10 180	12 200	14 440	16 900	19 570	5 270	1.93	1.96	3.31	19 336	75	44		101
OP-MPXM125	114X4414	3	8 290	10 270	12 530	15 090	17 970	21 170	24 690	5 590	2.24	2.28	3.63	21 624	77	46	966 x 1800 x 600	169
OP-MPXM162	114X4434	3	9 650	12 130	14 940	18 100	21 630	25 510	29 760	7 950	1.88	1.91	3.13	30 009	77	46		169

Rating conditions: +32°C ambient temp., superheat 10K, subcooling 0K

EcoDesign rating conditions: +32°C ambient, Subcooling 0 K, RGT20°C

* Certified performance - Asercom

R449A

Unit	Code	Phases	Cooling capacity in [W] at evaporating temperature [°C]							Power consumption [W] at -10°C evap. temp	COP at -10°C evap. temp	Rated COP at Eco- Design conditions	SEPR	Annual electricity consumption kWh	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions H x W x D [mm]	Net Weight [kg]
			-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C									
OP-MPYM008	114X4119	1		410	490	620	810	1 060		290	1.68	1.70			60	29	652 x 906 x 356	49
OP-MPYM009	114X4120	1		450	530	670	880	1 140		330	1.59	1.61			60	29		49
OP-MPYM012	114X4121	1		620	740	930	1 190	1 520		440	1.68	1.70			60	29		49
OP-MPYM014	114X4122	1		920	1 180	1 460	1 760	2 100		710	1.64	1.67			60	29		49
* OP-MPYM024 *	114X4200	1	1 040	1 410	1 860	2 380	2 980	3 680	4 480	900	2.06	2.09			67	36		80 *
OP-MPYM026	114X4212	1	1 210	1 600	2 060	2 600	3 230	3 950	4 780	1 010	2.04	2.08			67	36		80
	114X4213	3	1 170	1 580	2 060	2 610	3 250	3 990	4 830	1 060	1.95	1.98			67	36		80
OP-MPYM034	114X4226	1	1 510	2 010	2 600	3 270	4 050	4 940	5 930	1 410	1.84	1.87			67	36		80
	114X4227	3	1 510	2 000	2 560	3 210	3 960	4 810	5 770	1 340	1.90	1.94			67	36		80
OP-MPXM034	114X4261	1	2 200	2 750	3 370	4 090	4 890	5 800	6 800	1 590	2.13	2.16			68	37	815 x 1055 x 430	87
	114X4264	3	2 200	2 740	3 370	4 080	4 880	5 780	6 780	1 630	2.07	2.10			68	37		87
OP-MPXM046	114X4281	1	2 920	3 630	4 430	5 340	6 360	7 490	8 730	2 370	1.87	1.90			68	37		87
	114X4284	3	2 900	3 600	4 400	5 290	6 290	7 400	8 610	2 260	1.95	1.98			68	37		87
OP-MPXM057	114X4290	1	3 520	4 350	5 280	6 320	7 470	8 720	10 080	3 120	1.69	1.72	2.86	11 635	68	37		87
	114X4293	3	3 430	4 270	5 210	6 250	7 380	8 610	9 950	2 970	1.75	1.78	3.07	10 689	68	37		87
OP-MPXM068	114X4308	1	4 520	5 630	6 900	8 360	9 990	11 830	13 870	3 160	2.19	2.22	3.45	12 538	69	38		101
	114X4311	3	4 560	5 660	6 930	8 370	10 000	11 840	13 870	3 030	2.29	2.33	3.63	11 946	69	38		101
OP-MPXM080	114X4321	1	5 260	6 520	7 940	9 550	11 340	13 330	15 510	3 820	2.08	2.11	3.22	15 486	69	38	967 x 1406 x 481	101
	114X4324	3	5 320	6 580	8 010	9 640	11 460	13 490	15 720	3 560	2.25	2.29	3.68	13 664	69	38		101
OP-MPXM108	114X4344	3	6 760	8 360	10 170	12 190	14 430	16 890	19 570	5 270	1.93	1.96	3.31	19 336	75	44		101
OP-MPXM125	114X4414	3	8 270	10 250	12 510	15 070	17 950	21 160	24 690	5 590	2.24	2.28	3.63	21 624	77	46	966 x 1800 x 600	169
OP-MPXM162	114X4434	3	9 630	12 110	14 920	18 080	21 610	25 500	29 760	7 950	1.88	1.91	3.13	30 009	77	46		169

FREEZER OPTION 2

Model		FSP/0270-HZ
Compression Model		FH2511Z
HP		3
Noise Rating **		* 49 *
Dimensions mm (L*W*H*)		955 x 534 x 510
Pipe size (inch)	Liquid	3/8
	Suction	3/4
Net kg		76
Electrical Data	Supply	230V-1ph-50Hz
	FLA /ph	24.0
Duty Watts R404a Evaporating @*		
-20 °C		-25 °C
3122		2318
-30 °C		-35 °C
1659		1122
*Duty at +50°C Condensing temp. **DBA @10m in free field conditions.		

Related products



NFP150DGL
Piston
Condensing
Unit



NFP100DGM
Piston
Condensing
Unit



NFP075DGL
Piston
Condensing
Unit



NFP150DGM
Piston
Condensing
Unit

CHILLER OPTION 2

Condensing Unit Details		Condenser Coil	
Model	NFP100DGL	Type	Fin & Cu Tube
Application	Medium Temperature	Volume	0.09 L
Electrical Supply		Liquid Receiver	
	230V/1Ph/50Hz	Volume	3 L
Weights & Dimensions		Airflow	
Width	820 mm	Volume	2500 m ³ /h
Depth	400 mm		
Height	530 mm		
Mounting Dims	510 mm (W) x 350 mm (D)		
Weight (Dry)	51 kgs		
Compressor Data		Unit Connections	
Type	CAJ95102	Liquid	3/8"
Swept Volume	1.95 m ³ /h	Suction	1/2"
Oil Charge	0.89 L		
Nom. Current (A)	5.4		
MCC (A)	8.4		
LRC (A)	30		
Fan Motors		Sound Pressure Level @ 10m (-10°C/+32°C)	
No.	1		34 dB (A)
FLC (A)	0.4		
Performance Data at -10°C/+32°C Conditions			
	CC (W)	PC (W)	COP
R134a	910	530	1.72
R404A	1590	870	1.83
R407A	1400	750	1.87
R507	1490	800	1.86
R510A	1460	750	1.95
R449A	1460	750	1.95
R452A	1530	820	1.87

1/1 Octave Sound Pressure Levels @ 1 meter from the unit							
Frequency							
125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz	A (dBA)
54.7	57.4	54.2	45.3	40.9	39.5	29.6	54.2

34 DB

Related products



NFP100DGL
Piston
Condensing
Unit



FSP/0475-TE-
HZ PS Piston
Condensing
Unit