ENGINEERING
TOMORROW

Optyma™ Slim Pack | Optyma™ Plus New Generation | Optyma™ Plus INVERTER

Three **optimal** ranges every time

Get the flexibility to match your application needs with one of the Danfoss Optyma™ series for MBP and LBP refrigeration

Easy to install, easy to maintain, F-Gas compliant and always

energy efficient

Optyma™ Slim Pack
The cost effective, low noise level and compact choice

Optyma™ Plus New Generation
Best-in-class performance, in a silent plug & play package

Optyma™ Plus INVERTER
Premium Optyma™ **Plus** design combined with stepless capacity modulation for unmatched energy efficiency and food preservation

www.danfoss.com

OPTYMA™
DANFOSS CONDENSING UNITS

EcoDesign 2016

Danfoss Optyma™ packaged Condensing Units

- Broad choice for various climates
- Fast installation and maintenance
- Low noise to fit in residential areas
- Micro channel heat exchangers and multirefrigerant scrolls save on stock and running costs
- F-Gas: ready for refrigerants with lower GWP
- Eco Design compliance

Designed by Danfoss with 40 years of know-how in condensing units

Optyma™
Slim Pack

Our compact and cost effective packaged unit with Micro Channel Heat Exchanger technology

→ When space, low noise, efficiency and fast installation matter

Optyma™ **Plus**
New Generation

Our premium condensing unit: energy optimized, low noise levels, quick installation / maintenance and connectivity to Danfoss network

→ When quietness, high efficiency and fastest installation and maintenance matter

Optyma™ **Plus INVERTER**

Chain stepless modulation, the lowest energy consumption, and best food preservation with all the benefits of our premium design

→ When top efficiency, fast installation and maintenance, tight temperature and humidity control matter or for applications with multiple evaporators

Overview by range and refrigerant:

Min / Max Cooling capacity range [kW]	Optyma™ Slim Pack	Optyma™ Plus New Generation	Optyma™ Plus INVERTER
Medium temperatures			
R134a	0.7 - 6.5	2 - 10	-
R404A	1 - 10.5	0.6 - 17	2 - 9
R407A	3 - 10	3 - 15	2 - 9
R407F	3.5 - 10.5	4 - 16	2 - 9
R448A	3.5 - 10	3.5 - 15	-
R449A	0.5 - 10	0.5 - 15	-
Low temperatures			
R404A	0.4 - 4	0.4 - 6	-
R452A	0.4 - 3.5	0.4 - 6	-

Rating conditions EN12900
MBP: Ambient temp = 32°C, Evap temp = -10°C,Superheat = 10K, Subcooling = 0K
LBP: Ambient temp = 32°C, Evap temp = -35°C,Superheat = 10K, Subcooling = 0K

→ Optyma™ **Plus INVERTER** with Inverter technology allows cooling capacity modulation from 30 to 100 rps. Data tables mention the minimal and maximal cooling capacity for each model.

For full data details, capacity tables, please refer to Coolselector®2
coolselector.danfoss.com

Three options to meet your varied needs

LBP - R404A

	Optyma™ Slim Pack			Optyma™ Plus New Generation		
kW	Unit	Code	W	Unit	Code	W
0.5	OP-LSHM015	114X7081	400	OP-LPQM017	114X3118	480
	OP-LSHM018	114X7082	490	OP-LPHM018	114X3109	490
	OP-LSQM026	114X7085	640	OP-LPQM026	114X3216	640
1.0	OP-LSQM034	114X7086	830			
	OP-LSQM048	114X7087	980	OP-LPQM048	114X3225	980
	OP-LSQM048	114X7088	1000	OP-LPQM048	114X3233	1000
1.5	OP-LSQM074	114X7095	1440	OP-LPQM074	114X3252	1440
	OP-LSQM074	114X7096	1430	OP-LPQM074	114X3253	1430
	OP-LSQM068	114X7089	1610	OP-LPQM068	114X3241	1610
	OP-LSQM068	114X7090	1630	OP-LPQM068	114X3249	1630
2.0				OP-LPQM096	114X3357	2030
2.5	OP-LSQM067	114X7091	2600			
3.0	OP-LSQM084	114X7092	3110	OP-LPQM136	114X3365	3040
3.5	OP-LSQM098	114X7075	3610			
4.5				OP-LPQM215	114X3476	4690
6.5				OP-LPQM271	114X3482	6240

LBP - R452A

	Optyma™ Slim Pack			Optyma™ Plus New Generation		
kW	Unit	Code	W	Unit	Code	W
0.5	OP-LSQM014	114X7106	410	OP-LPQM017	114X3118	430
	OP-LSQM018	114X7107	430	OP-LPQM026	114X3216	540
	OP-LSQM026	114X7085	540			
	OP-LSQM034	114X7086	700			
1.0	OP-LSQM048	114X7087	960	OP-LPQM048	114X3225	960
	OP-LSQM048	114X7088	1000	OP-LPQM048	114X3233	1000
	OP-LSQM074	114X7095	1230	OP-LPQM074	114X3252	1230
	OP-LSQM074	114X7096	1220	OP-LPQM074	114X3253	1220
1.5	OP-LSQM068	114X7089	1640	OP-LPQM068	114X3249	1620
	OP-LSQM068	114X7090	1620	OP-LPQM068	114X3241	1640
2.0	OP-LSQM067	114X7091	2350	OP-LPQM096	114X3357	2100
3.0	OP-LSQM084	114X7092	2890	OP-LPQM136	114X3365	3200
	OP-LSQM098	114X7075	3380			
4.0				OP-LPQM215	114X3476	4260
6.0				OP-LPQM271	114X3482	6060

Rating conditions EN12900
LBP: Ambient temp = 32°C, Evap temp = -35°C,Superheat = 10K, Subcooling = 0K

Three options to meet your varied needs

MBP - R134a

	Optyma™ Slim Pack			Optyma™ Plus New Generation		
kW	Unit	Code	W	Unit	Code	W
0.5	OP-MSGM012	114X7099	660			
	OP-MSGM015	114X7100	740			
1.0	OP-MSGM018	114X7101	900			
	OP-MSGM021	114X7102	1080			
1.5	OP-MSGM026	114X7103	1300			
	OP-MSGM033	114X7104	1690			
2.0	OP-MSXM034	114X7061	2200			
	OP-MSXM034	114X7062	2170	OP-MPGM033	114X4220	2170
3.0	OP-MSXM046	114X7063	2920	OP-MPXM034	114X4261	2740
	OP-MSXM046	114X7064	2910	OP-MPXM034	114X4264	2690
3.5	OP-MSXM057	114X7065	3520	OP-MPXM046	114X4281	3620
	OP-MSXM057	114X7066	3520	OP-MPXM046	114X4284	3600
4.5	OP-MSXM068	114X7067	4430	OP-MPXM057	114X4290	4350
	OP-MSXM068	114X7068	4380	OP-MPXM057	114X4293	4350
5.0	OP-MSXM080	114X7069	5140			
	OP-MSXM080	114X7070	5090			
5.5				OP-MPXM068	114X4308	5450
				OP-MPXM068	114X4311	5440
6.0	OP-MSXM099	114X7071	6190			
6.5	OP-MSXM108	114X7072	6520	OP-MPXM080	114X4321	6410
				OP-MPXM080	114X4324	6310
8				OP-MPXM108	114X4344	8060
10				OP-MPXM125	114X4414	10020
12.5				OP-MPXM162	114X4434	12640

MBP - R404A

	Optyma™ Slim Pack			Optyma™ Plus New Generation			Optyma™ Plus INVERTER			
kW	Unit	Code	W	Unit	Code	W	Unit	Code	W	rps
0.5				OP-MPHM007	114X4101	710				
1.0				OP-MPYM008	114X4119	850				
	OP-MSYM009	114X7108	910	OP-MPYM009	114X4120	910				
	OP-MSHM010	114X7077	940	OP-MPHM010	114X4102	940				
	OP-MSHM012	114X7078	1120	OP-MPHM012	114X4104	1120				
	OP-MSYM012	114X7109	1240	OP-MPYM012	114X4121	1240				
	OP-MSYM014	114X7110	1280	OP-MPYM014	114X4122	1280				
	OP-MSHM015	114X7079	1350	OP-MPHM015	114X4105	1350				
1.5	OP-MSHM018	114X7080	1540	OP-MPHM018	114X4109	1560				
	OP-MSYM018	114X7111**	1670	OP-MPYM018	114X4230**	1660				
2.0	OP-MSYM024	114X7097	2070	OP-MPYM024	114X4200	2070	OP-MPLM028VVLP01E	114X4300	1800	30
2.5	OP-MSYM026	114X7083	2290	OP-MPYM026	114X4212	2290	OP-MPLM035VVLP01E	114X4315	2260	30
	OP-MSYM026	114X7093	2280	OP-MPYM026	114X4213	2280				
3.0	OP-MSYM034	114X7084	2860	OP-MPYM034	114X4226	2860	OP-MPLM044VVLP01E	114X4333	2880	30
	OP-MSYM034	114X7094	2820	OP-MPYM034	114X4227	2820				
3.5	OP-MSXM034	114X7061	3480	OP-MPXM034	114X4261	3480				
	OP-MSXM034	114X7062	3400	OP-MPXM034	114X4264	3400				
4.5	OP-MSXM046	114X7063	4580	OP-MPXM046	114X4281	4580				
	OP-MSXM046	114X7064	4510	OP-MPXM046	114X4284*	4510				
5	OP-MSXM057	114X7065	5240	OP-MPXM057	114X4290	5240				
	OP-MSXM057	114X7066	5240	OP-MPXM057	114X4293	5250				
6.0							OP-MPLM028VVLP01E	114X4300	6020	100
7	OP-MSXM068	114X7067	7180	OP-MPXM068	114X4308	7180	OP-MPLM035VVLP01E	114X4315	7430	100
	OP-MSXM068	114X7068	7180	OP-MPXM068	114X4311	7180				
8.5	OP-MSXM080	114X7069	8270	OP-MPXM080	114X4321	8270				
	OP-MSXM080	114X7070	8350	OP-MPXM080	114X4324	8350				
9.0							OP-MPLM044VVLP01E	114X4333	9240	100
10.0	OP-MSXM099	114X7071	9650							
10.5	OP-MSXM108	114X7072	10320	OP-MPXM108	114X4344	10320				
13.0				OP-MPXM125	114X4414	12820				
16.0				OP-MPXM162	114X4434	16030				

Rating conditions EN12900:
MBP: Ambient temp = 32°C, Evap temp = -10°C, Superheat = 10K, Subcooling = 0K

*Certified performance - Asercom
**Preliminary data

Three options to meet your varied needs

MBP - R407A

	Optyma™ Slim Pack			Optyma™ Plus New Generation			Optyma™ Plus INVERTER			
kW	Unit	Code	W	Unit	Code	W	Unit	Code	W	rps
1.5							OP-MPLM028VVLP01E	114X4300	1690	30
2.0							OP-MPLM035VVLP01E	114X4315	2130	30
2.5							OP-MPLM044VVLP01E	114X4333	2720	30
3.5	OP-MSXM034	114X7061	3350	OP-MPXM034	114X4261	3350				
	OP-MSXM034	114X7062	3310	OP-MPXM034	114X4264	3310				
4.5	OP-MSXM046	114X7063	4160	OP-MPXM046	114X4281	4160				
	OP-MSXM046	114X7064	4090	OP-MPXM046	114X4284	4090				
5.0	OP-MSXM057	114X7065	5120	OP-MPXM057	114X4290	5120				
	OP-MSXM057	114X7066	5040	OP-MPXM057	114X4293	5040				
5.5							OP-MPLM028VVLP01E	114X4300	5520	100
7.0	OP-MSXM068	114X7067	6470	OP-MPXM068	114X4308	6470	OP-MPLM035VVLP01E	114X4315	6870	100
	OP-MSXM068	114X7068	6520	OP-MPXM068	114X4311	6520				
8.0	OP-MSXM080	114X7069	7620	OP-MPXM080	114X4321	7620				
	OP-MSXM080	114X7070	7710	OP-MPXM080	114X4324	7710				
8.5							OP-MPLM044VVLP01E	114X4333	8630	100
9.0	OP-MSXM099	114X7071	9160							
10.0	OP-MSXM108	114X7072	9860	OP-MPXM108	114X4344	9860				
12.0				OP-MPXM125	114X4414	11870				
15.0				OP-MPXM162	114X4434	14570				

MBP - R407F

	Optyma™ Slim Pack			Optyma™ Plus New Generation			Optyma™ Plus INVERTER			
kW	Unit	Code	W	Unit	Code	W	Unit	Code	W	rps
2							OP-MPLM028VVLP01E	114X4300	1820	30
2.5							OP-MPLM035VVLP01E	114X4315	2290	30
3							OP-MPLM044VVLP01E	114X4333	2920	30
3.5	OP-MSXM034	114X7061	3590	OP-MPXM034	114X4261	3590				
	OP-MSXM034	114X7062	3510	OP-MPXM034	114X4264	3510				
4.5	OP-MSXM046	114X7063	4440	OP-MPXM046	114X4281	4440				
	OP-MSXM046	114X7064	4370	OP-MPXM046	114X4284	4370				
5.5	OP-MSXM057	114X7065	5460	OP-MPXM057	114X4290	5460				
	OP-MSXM057	114X7066	5310	OP-MPXM057	114X4293	5310				
6							OP-MPLM028VVLP01E	114X4300	5940	100
7	OP-MSXM068	114X7067	6930	OP-MPXM068	114X4308	6930	OP-MPLM035VVLP01E	114X4315	7390	100
	OP-MSXM068	114X7068	6990	OP-MPXM068	114X4311	6990				
8	OP-MSXM080	114X7069	8160	OP-MPXM080	114X4321	8160				
	OP-MSXM080	114X7070	8190	OP-MPXM080	114X4324	8190				
9							OP-MPLM044VVLP01E	114X4333	9280	100
10	OP-MSXM099	114X7071	9870							
	OP-MSXM108	114X7072	10200	OP-MPXM108	114X4344	10200				
13				OP-MPXM125	114X4414	12810				
16				OP-MPXM162	114X4434	15470				

Rating conditions EN12900:
MBP: Ambient temp = 32°C, Evap temp = -10°C, Superheat = 10K, Subcooling = 0K

ENGINEERING TOMORROW

Three options to meet your varied needs

MBP - R448A

	Optyma™ Slim Pack			Optyma™ Plus New Generation		
kW	Unit	Code	W	Unit	Code	W
3.5	OP-MSXM034	114X7061	3380	OP-MPXM034	114X4261	3380
	OP-MSXM034	114X7062	3370	OP-MPXM034	114X4264	3370
4.5	OP-MSXM046	114X7063	4440	OP-MPXM046	114X4281	4440
	OP-MSXM046	114X7064	4400	OP-MPXM046	114X4284*	4400
5	OP-MSXM057	114X7065	5290	OP-MPXM057	114X4290	5290
	OP-MSXM057	114X7066	5220	OP-MPXM057	114X4293	5220
7	OP-MSXM068	114X7067	6910	OP-MPXM068	114X4308	6910
	OP-MSXM068	114X7068	6940	OP-MPXM068	114X4311	6940
8	OP-MSXM080	114X7069	7960	OP-MPXM080	114X4321	7960
	OP-MSXM080	114X7070	8020	OP-MPXM080	114X4324	8020
10	OP-MSXM099	114X7071	9600			
	OP-MSXM108	114X7072	10180	OP-MPXM108	114X4344	10180
12				OP-MPXM125	114X4414	12530
15				OP-MPXM162	114X4434	14940

MBP - R449A

	Optyma™ Slim Pack			Optyma™ Plus New Generation		
kW	Unit	Code	W	Unit	Code	W
0.5				OP-MPYM008	114X4119	490
	OP-MSYM009	114X7108	530	OP-MPYM009	114X4120	530
	OP-MSYM012	114X7109	740	OP-MPYM012	114X4121	740
1	OP-MSYM014	114X7110	1180	OP-MPYM014	114X4122	1180
2	OP-MSYM024	114X7097	1860	OP-MPYM024	114X4200	1860
	OP-MSYM026	114X7083	2060	OP-MPYM026	114X4212	2060
	OP-MSYM026	114X7093	2060	OP-MPYM026	114X4213	2060
2.5	OP-MSYM034	114X7084	2600	OP-MPYM034	114X4226	2600
	OP-MSYM034	114X7094	2560	OP-MPYM034	114X4227	2560
3.5	OP-MSXM034	114X7061	3370	OP-MPXM034	114X4261	3370
	OP-MSXM034	114X7062	3370	OP-MPXM034	114X4264	3370
4.5	OP-MSXM046	114X7063	4430	OP-MPXM046	114X4281	4430
	OP-MSXM046	114X7064	4400	OP-MPXM046	114X4284	4400
5	OP-MSXM057	114X7065	5280	OP-MPXM057	114X4290	5280
	OP-MSXM057	114X7066	5210	OP-MPXM057	114X4293	5210
7	OP-MSXM068	114X7067	6900	OP-MPXM068	114X4308	6900
	OP-MSXM068	114X7068	6930	OP-MPXM068	114X4311	6930
8	OP-MSXM080	114X7069	7940	OP-MPXM080	114X4321	7940
	OP-MSXM080	114X7070	8010	OP-MPXM080	114X4324	8010
10	OP-MSXM099	114X7071	9580			
	OP-MSXM108	114X7072	10170	OP-MPXM108	114X4344	10170
12.5				OP-MPXM125	114X4414	12510
15				OP-MPXM162	114X4434	14920

Rating conditions EN12900
MBP: Ambient temp = 32°C, Evap temp = -10°C, Superheat = 10K, Subcooling = 0K

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

EcoDesign 2016