

Optyma Plus™ New Generation

# Raise your **efficiency** to a higher level. Equipped for **silence** and **top performance**.

Range extension for a complete offer:

- 0.6 - 16.5 kW for MBP refrigeration
- 0.7 - 9.6 kW for LBP refrigeration

Complies with the new Energy Related Regulations for fan motors

**50%**

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





## A cooler combination Faster to install, simpler to set up, easier to service

When we asked installers how to improve the known and trusted Optyma Plus™, you told us to make it quicker to install and simpler to set up and service. We listened, and here's the result: The new generation Optyma Plus™ - it's another step forward in plug and play. It will not just save you valuable time and costs in installation, set up and service, it will also reduce your customers' energy bill.

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

## Silent and top performance for customer confidence

With its long-life compressor, acoustic insulation, component design as well as intelligent fan speed reduction during low capacity operation, the Optyma Plus™ is so smooth and quiet that your customers will benefit from the best sound performance in the market. The highly optimised Micro Channel Heat Exchanger and electronic controller also contribute to considerable energy savings, making the Optyma Plus up to 20% more economical than an equivalent product offering and that's a sales argument your customers will notice.

Up to  
**25%**

lower sound level  
provides greater comfort  
in residential areas.

**Experience up to 20% energy savings from day one!**



### **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.



## **Extend**

your possibilities  
with new models  
for low and medium  
temperatures.

## **Designed for ultimate efficiency**



Quick installation

### **Compact cabinet speeds installation**

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



Easy service

### **More accessible to speed service**

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



Intelligent

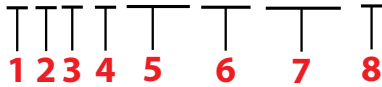
### **Intelligent technology speeds start up and reduces risk**

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.

## Technical data

### Designation

# OP - MPUM034 ML P00 G



1	Application: <b>M</b> = MBP / <b>L</b> = LBP
2	Condensing unit family: <b>P</b> = Optyma Plus new generation
3	Refrigerant
4	<b>U</b> = R407A/F/R134a/R404A/R507/R22 <b>H</b> = R404A/R507 <b>G</b> =R134a
5	Condenser type: <b>M</b> = Standard with micro channel heat exchanger
6	Displacement in cm <sup>3</sup>
7	Compressor platform
8	Version P00
	Voltage code:
	<b>G</b> = 230V/1-phase compressor & fan
	<b>E</b> = 400V/3-phase compressor & 230V/1-phase fan



MLZ compressors may be blue or black depending on the manufacturing origin

## Make your choice!

Range extension for a complete offer in low and medium temperatures

### R134a

Unit	Code	Phases	R134a Cooling capacity in [W] at evaporating temperature [°C]							Power consumption [W] at -10°C evap. Temp	COP at -10°C evap. temp	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions [mm] Height x Width x Depth	Net Weight [kg]
			-15°C	-10°C	-5°C	0°C	+5°C	+10°C	+15°C						
OP-MPGM033	114X4220	1	1 350	1 730	2 170	2 660	3 220	3 850		840	2.06	67	36	813 x 1055 x 430	76
	114X4261	1	1 700	2 150	2 700	3 300	4 000	4 800	5 650	1 000	2.15				
OP-MPUM034	114X4264	3													
	114X4281	1	2 350	2 900	3 600	4 400	5 300	6 300	7 450	1 300	2.23	68	37		
OP-MPUM046	114X4284	3													
	114X4290	1	2 800	3 500	4 350	5 300	6 350	7 550	8 850	1 600	2.19				
OP-MPUM057	114X4293	3													
	114X4308	1	3 550	4 450	5 550	6 800	8 250	9 900	11 750	1 850	2.41				
OP-MPUM068	114X4311	3													
	114X4321	1	4 100	5 200	6 450	7 900	9 550	11 450	13 500	2 250	2.31	69	38		
OP-MPUM080	114X4324	3													
OP-MPUM108	114X4344	3	5 350	6 700	8 300	10 150	12 250	14 550	17 050	2 800	2.39			966 x 1800 x 600	177
OP-MPUM125	114X4414	3	6 500	8 150	10 100	12 300	14 800	17 600	20 700	3 550	2.29	75	44		
OP-MPUM162	114X4434	3	8 250	10 350	12 800	15 550	18 650	22 150	25 950	4 600	2.25				

Rating conditions: +32°C ambient, Superheat 10K, Subcooling 0 K  
Values refer to 3-phase units

### The reliable choice - Known and tested Danfoss technology

- All units 100% factory tested
- High quality Danfoss components inside
- Designed for very low ambient temperatures
- Solid, attractive & corrosion resistant housing

**R407A\***

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	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions and weight	
			-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C					Height x Width x Depth [mm]	Net Weight [kg]
OP-MPUM034	114X4261	1	2 100	2 650	3 300	4 000	4 850	5 800	6 900	1 500	2.20	68	37	813 x 1055 x 430	90
	114X4264	3													
OP-MPUM046	114X4281	1	2 700	3 400	4 250	5 150	6 200	73 00	8 550	2 200	1.93	68	37	813 x 1055 x 430	90
	114X4284	3													
OOP-MPUM057	114X4290	1	3 300	4 150	5 100	6 150	7 350	8 650	10 050	2 850	1.79	69	38	965 x 1406 x 481	130
	114X4293	3													
OP-MPUM068	114X4308	1	4 500	5 550	6 850	8 350	10 100	12 050	14 300	2 850	2.40	69	38	965 x 1406 x 481	130
	114X4311	3													
OP-MPUM080	114X4321	1	5 150	6 350	7 800	9 500	11 450	13 650	16 100	3 350	2.33	69	38	965 x 1406 x 481	130
	114X4324	3													
OP-MPUM108	114X4344	3	6 400	8 100	10 100	12 350	14 850	17 600	20 650	5 050	2.00	75	44	966 x 1800 x 600	177
OP-MPUM125	114X4414	3	7 750	9 750	12 050	14 650	17 650	20 950	24 550	5 550	2.17				
OP-MPUM162	114X4434	3	9 350	11 950	14 900	18 250	21 950	26 100	30 600	7 600	1.96				

**R407F\***

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	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions and weight	
			-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C					Height x Width x Depth [mm]	Net Weight [kg]
OP-MPUM034	114X4261	1	2 250	2 850	3 500	4 300	5 150	6 200	7 300	1 600	2.19	68	37	813 x 1055 x 430	90
	114X4264	3													
OP-MPUM046	114X4281	1	2 900	3 650	4 550	5 500	6 550	7 750	9 050	2 400	1.90	68	37	813 x 1055 x 430	90
	114X4284	3													
OP-MPUM057	114X4290	1	3 550	4 450	5 450	6 550	7 800	9 150	10 600	3 150	1.73	69	38	965 x 1406 x 481	130
	114X4293	3													
OP-MPUM068	114X4308	1	4 850	6 000	7 350	8 900	10 750	12 800	15 100	3 050	2.41	69	38	965 x 1406 x 481	130
	114X4311	3													
OP-MPUM080	114X4321	1	5 550	6 850	8 350	10 150	12 150	14 450	17 000	3 600	2.32	69	38	965 x 1406 x 481	130
	114X4324	3													
OP-MPUM108	114X4344	3	6 900	8 700	10 800	13 100	15 750	18 600	21 750	5 500	1.96	75	44	966 x 1800 x 600	177
OP-MPUM125	114X4414	3	8 350	10 450	12 900	15 650	18 700	22 150	25 900	6 000	2.15				
OP-MPUM162	114X4434	3	10 050	12 800	15 900	19 400	23 300	27 550	32 200	8 250	1.93				

Rating conditions: +32°C ambient temp., superheat 10K, subcooling 0K - Values refer to 3-phase units.  
\* preliminary data

**R404A**

Unit	Code	Phases	Cooling capacity in [W] at evaporating temperature [°C]											Power consumption [W] at -10°C evap. temp (-25°C for LBP)	COP at -10°C evap. temp (-25°C for LBP)	Sound power level dB(A)	Sound pressure level 10m dB(A)	Dimensions [mm] Height x Width x Depth	Net Weight [kg]	
			-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C							
OP-MPHM007	114X4101	1						480	610	760	930	1 130		460	1.33	60	29	650x906x356	48	
OP-MPHM010	114X4102	1						510	650	820	1 030	1 270	1 550		570				1.44	51
OP-MPHM012	114X4104	1						620	790	1 000	1 240	1 530	1 870		660				1.52	51
OP-MPHM015	114X4105	1						770	980	1 230	1 540	1 890	2 300		830				1.48	51
OP-MPHM018	114X4109	1						900	1 140	1 440	1 790	2 200	2 670		910				1.58	51
OP-MPHM024	114X4200	1						1 250	1 650	2 050	2 550	3 100	3 700	4 400	1 050	1.95	67	36	813x1055x430	75
OP-MPHM026	114X4212	1						1 400	1 800	2 300	2 800	3 400	4 000	4 700	1 250	1.84				75
OP-MPHM026	114X4213	3						1 400	1 800	2 300	2 800	3 400	4 000	4 700	1 250	1.84				75
OP-MPHM034	114X4226	1						1 800	2 300	2 800	3 400	4 100	4 800	5 600	1 550	1.81	68	37	813x1055x430	76
OP-MPHM034	114X4227	3						1 800	2 300	2 800	3 400	4 100	4 800	5 600	1 550	1.81				76
OP-MPUM034	114X4261	1						2 250	2 800	3 400	4 050	4 800	5 650	6 550	1 700	2.00	68	37	813x1055x430	90
OP-MPUM034	114X4264	3						2 250	2 800	3 400	4 050	4 800	5 650	6 550	1 700	2.00				
OP-MPUM046	114X4281	1						3 100	3 750	4 500	5 350	6 250	7 250	8 400	2 300	1.96	69	38	965x1406x481	130
OP-MPUM046	114X4284*	3						3 100	3 750	4 500	5 350	6 250	7 250	8 400	2 300	1.96				
OP-MPUM057	114X4290	1						3 700	4 500	5 350	6 250	7 300	8 400	9 600	3 050	1.75	75	44	966x1800x600	177
OP-MPUM057	114X4293	3						3 700	4 500	5 350	6 250	7 300	8 400	9 600	3 050	1.75				
OP-MPUM068	114X4308	1						4 950	6 050	7 300	8 750	10 350	12 150	14 100	3 200	2.28	69	38	965x1406x481	130
OP-MPUM068	114X4311	3						4 950	6 050	7 300	8 750	10 350	12 150	14 100	3 200	2.28				
OP-MPUM080	114X4321	1						5 800	7 050	8 500	10 150	11 950	13 950	16 200	3 850	2.21	75	44	966x1800x600	177
OP-MPUM080	114X4324	3						5 800	7 050	8 500	10 150	11 950	13 950	16 200	3 850	2.21				
OP-MPUM108	114X4344	3						7 300	8 850	10 600	12 550	14 700	17 050	19 700	5 250	2.02	69	38	965x1406x481	130
OP-MPUM125	114X4414	3						8 750	10 700	13 050	15 750	18 650	21 750	25 000	6 150	2.12				
OP-MPUM162	114X4434	3						11 650	13 950	16 500	19 300	22 400	25 850	29 650	8 200	2.01	75	44	966x1800x600	177
OP-LPHM018	114X3109	1	320	440	580	750	940	1 160	1 410						720	1.04				
OP-LPHM026	114X3216	1	450	650	850	1 150	1 450	1 800	2 200						900	1.28	69	38	813x1055x430	81
OP-LPHM048	114X3225	1	650	1 000	1 400	1 850	2 350	2 950	3 600						1 450	1.28				
OP-LPHM048	114X3233	3	650	1 000	1 400	1 850	2 350	2 950	3 600						1 450	1.28	70	39	965x1406x481	124
OP-LPHM074	114X3252	1	1 000	1 450	1 950	2 600	3 300	4 050	4 950						2 100	1.24				
OP-LPHM074	114X3253	3	1 000	1 450	1 950	2 600	3 300	4 050	4 950						2 100	1.24	78	47	966x1800x600	177
OP-LPHM068	114X3241	1	1 150	1 650	2 150	2 750	3 450	4 200	5 050						2 150	1.28				
OP-LPHM068	114X3249	3	1 150	1 650	2 150	2 750	3 450	4 200	5 050						2 150	1.28	73	42	965x1406x481	124
OP-LPHM096	114X3357	3	1 450	2 050	2 800	3 750	4 900	6 200	7 750						2 700	1.39				
OP-LPHM136	114X3365	3	2 250	3 100	4 100	5 350	6 750	8 400	10 200						4 200	1.27	78	47	966x1800x600	181
OP-LPHM215	114X3476	3	3 700	4 700	5 950	7 400	9 100	11 000	13 200						4 950	1.49				
OP-LPHM271	114X3482	3	5 000	6 300	7 850	9 650	11 700	14 050	16 650						6 700	1.44				

Rating conditions: +32°C ambient, Superheat 10K, Subcooling 0 K. Values refer to 3 phase units  
\* Certified performance - Asercom

**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. That's precisely why we updated the tried and tested Optyma Plus™ to bring you a new generation.

Contact your local Danfoss sales office and learn why your business can gain from working with one of the world's leading suppliers to the refrigeration and air-conditioning industry.

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