ENGINEERING
TOMORROW

Danfoss Optyma™ condensing units for Europe

Match your application needs – every time

With the Danfoss Optyma™ outdoor and indoor condensing units for Europe, 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.

Optimal Efficiency

for high cooling quality while reducing system's life-cycle costs and downtime

cr.danfoss.com | EcoDesign | Optyma™ by Danfoss

Danfoss Optyma™
packaged/outdoor condensing units

Highly efficient and reliable plug and play condensing units designed with the contractor and end-user in mind, and providing unique benefits.

Benefits for the contractor

- Simple and fast selection and installation, reduced maintenance time
- Models compatible with multiple lower GWP refrigerants
- Reduced refrigerant costs thanks to microchannel condenser inside

Benefits for the end-user

- Increased food safety and longer products shelf life
- Units suitable for residential areas thanks to low sound level operation
- Reduced life cycle costs of refrigeration equipment thanks to highly efficient units

Optyma™ **Slim Pack W05**

Compact and cost effective. When space, quiet operation, efficiency and simple installation matter.
With microchannel condenser

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Optyma™ **Slim Pack W09**

Compact and cost effective. When space, quieter operation, efficiency, faster and safer installation and maintenance matter.
W05 base + fan speed controller and main switch included

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Optyma™ **Plus P00/P02**

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

P00 version:
With electronic controller

P02 version:
P00 base + liquid injection with electronic expansion valve

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Optyma™ **Plus INVERTER**

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

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MBP and LBP **applications**

- Cold rooms, display cabinets in convenience stores, mini-markets, restaurants, fisheries, butcheries, bakeries, florists, laboratories
- Wine cellars
- Milk cooling
- Industrial processes
- Dairy and general food storage

Designation

OP - MSXM034 ML W05 G

1 2 3 4 5 6 7 8

OP = Optyma

1	Application: **M** = MBP ; **L** = LBP
2	Condensing unit family: **S** = Slim Pack / **P** = OP Plus, OP Plus INVERTER
3	Refrigerant: **B =** R449A, R452A, R404A/R507 ; **G** = R134a, R513A ; **H** = R404A/R507 ; **O =** R448A, R449A, R452A, R404A/R507 ; **P** = R448A, R449A, R407A, R407A, R404A/507 ; **Q** = R452A, R404A/R507 ; **X** = R404A/R507, R134a, R513A, R407A, R407F, R448A, R449A, R452A ; **Y** = R404A/R507, R449A
4	**M** = Microchannel condenser
5	Displacement in cm^3: Example 034 = 34 cm^3
6	Compressor platform: such as VVL = variable speed scroll VLZ
7	**W05:** Optyma™ **Slim Pack** **W09:** Optyma™ **Slim Pack** with fan speed controller and main switch **P00**: 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™ Slim Pack		Optyma™ Plus		Optyma™ Plus INVERTER
	W05	W09	P00	P02	
IP level	IP54		IP54		IP54
Compressor technology	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
Main switch (circuit breaker)	-	yes	yes		yes
Filter drier (flare connections)	yes		yes		yes
Sight glass	yes		yes		yes
Crankcase heater	yes		yes		yes
HP/LP adjustable pressostat	Mechanical		Electronic		Electronic
Liquid injection kit	-		-	yes	-
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
Net weight in kg	B1 housing: from 50.4 to 53 B2 housing: from 61.5 to 77 B3 housing: from 76 to 79		H1 housing: from 49 to 53 H2 housing: from 80 to 94 H3 housing: from 101 to 107 H4 housing: 169	H3 housing: 135 and 136 H4 housing: from 161 to 166	124 & 125
Dimensions in mm (height x width x depth)	B1 housing: 530 x 910 x 364 B2 housing: 690 x 1087 x 464 B3 housing: 825 x 1105 x 464		H1 housing: 652 x 906 x 356 H2 housing: 813 x 1055 x 430 H3 housing: 967 x 1406 x 481 H4 housing: 966 x 1800 x 600	H3 housing: 965 x 1441 x 531 H4 housing: 966 x 1835 x 650	965 x 1406 x 481

Overview by range and refrigerant:

Min / Max Cooling capacity range [kW]	Optyma™ Slim Pack	Optyma™ Plus	Optyma™ Plus INVERTER
Medium temperature (MBP)			
R449A	0.8 - 10.2	0.7 - 14.9	1.7 - 8.3
R448A	3.3 - 10.2	3.3 - 14.9	1.7 - 8.3
R134a	0.6 - 6.6	1.7 - 10.2	-
R513A	0.6 - 7.0	1.7 - 10.3	-
R407A	3.3 - 9.9	3.3 - 14.6	1.7 - 8.4
R407F	3.5 - 10.2	3.5 - 15.5	1.8 - 9
R452A	1.4 - 10.4	1.4 - 15.3	-
R404A/507	0.9 - 10.3	0.7 - 16	1.8 - 9
Low temperature (LBP)			
R448A/R449A	-	2.3 - 6	-
R452A	0.4 - 3.3	0.4 - 6.1	-
R404A/507	0.4 - 3.6	0.5 - 6.2	-

Rating conditions EN 13215 (dew point):
MBP: Ambient temp = 32°C; Evap temp = -10°C; Superheat = 10K; Subcooling = 0K / **LBP:** Ambient temp = 32°C; Evap temp = -35°C; Superheat = 10K; Subcooling = 0K

Selection examples for cold rooms

Make a precise selection with the Cold Room module in Coolselector 2 software.

Range	Model and cooling capacity by cold room type	Meat +1°C - 18h		Fish +1°C - 18h		Laboratories +12°C - 18h		Fruit & Vegetables +8°C - 18h		Fruit & Vegetables 0°C - 18h		Butter, Eggs, Cheese +5°C - 18h		Freezers -18°C - 16h	
		Cap. [W]	CR* (m^3)	Cap. [W]	CR* [m^3]	Cap. [W]	CR* [m^3]	Cap. [W]	CR* [m^3]	Cap. [W]	CR* [m^3]	Cap. (W)	CR* [m^3]	Cap. [W]	CR* [m^3]
OP Slim Pack with R513A	**OP-MSGM018 / 021 / 026**	900	6	900	6	1 270	8	1 270	17	900	7	1 030	9		
OP Plus with R449A	**OP-MPBM018 / 024**	1 350	11	1 350	11	1 890	13	1 890	30	1 350	12	1 530	16		
OP Plus INVERTER with R448A	**OP-MPPM044**	2 500	20	2 500	20	3 400	20	3 500	65	2 500	20	2 800	35		
OP Slim Pack with R452A	**OP-LSQM034**													680	2

*Data relate to +32°C ambient temperature; please refer to Danfoss for other working conditions. Cold room data: Temperature - Daily working hours. * Volume of cold room.*

Danfoss Optyma™
bare/indoor condensing units

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

Benefits for the contractor

- Broad working envelope
- Multi lower-GWP refrigerants
- Larger units with microchannel condenser reducing the refrigerant charge and smaller units with fine & tube condenser
- Likely the most reliable hermetic reciprocating compressor on the market
- Economical EUR/kW value

Benefits for the end-user

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

Optyma™, **Light Commercial**
up to ~1.5 kW

Complete line featuring a higher efficiency and a reduced footprint, also available with R290, making it the perfect choice for a greener installation. This solution is ideal for OEMs or end-users looking for compact products to fit in small systems, and optimal cooling performance and capacity.

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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. Easy to install and service. Quieter by up to 3 dB(A) thanks to 6-pole fan motor instead of 4-pole fan.

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MBP and LBP **applications**

- Industrial processes
- Milk cooling
- Cold rooms in fisheries, florists, etc.
- Commercial fridge and freezers, display cases, bottle coolers, serving tables

Designation

OP - LCQN 048 MT A02 E

1 2 3 4 5 6 7 8

OP = Optyma

1	**Application:** **M** = MBP ; **L** = LBP
2	**Platform:** **C:** Air-cooled condensing unit with single fan **G:** Air-cooled condensing unit with dual fan
3	**Refrigerant:** **R:** R134a, R513A, R404A/R507, R407C, R407A, R407F, R448A, R449A, R452A **G:** R134a, R513A **H:** R404A/R507 **Q:** R452A, R404A/R507 **N:** R290
4	**Condenser design:** **C:** Fin & Tube condenser, ambient temperature up to 43°C **N:** Microchannel condenser, ambient temperature up to 46°C

Reduce direct and indirect **emissions**

By choosing lower GWP refrigerants and highly efficient condensing units, installers make the choice of creating a sustainable cooling industry. See the regulations impacting the condensing units in Europe and make the right choice with Danfoss solutions.

F-Gas affected applications and timeline

The F-Gas regulation puts in place HFC phase down on high GWP (Global Warming Potential) refrigerants.

2020

Movable room A/C, hermetically sealed with GWP ≥150

Stationary refrigeration equipment for temperatures above -50°C with GWP ≥ 2500

Commercial refrigerators and freezers, hermetically sealed with GWP ≥ 2500

Servicing equipment using new refrigerants with GWP ≥ 2500 for temperatures ≥ -50°C and change ≥ 40 tonnes CO_2 eq. Except for military equipment

2022

Commercial refrigerators and freezers, hermetically sealed with GWP ≥150

Multipack centralised refrigeration systems for commercial use with a capacity ≥40 kW, GWP ≥150 and ≥1500 for primary circulation of cascades

2025

Single split A/C systems containing less than 3 kg of HFC with GWP ≥750

2030

Servicing equipment using refrigerants with GWP ≥2500 for temperatures ≥ -50°C and charge ≥40 tonnes CO_2 eq. Except for military equipment

EcoDesign affected applications

From the 1st July 2018, only condensing units that achieve certain energy performance ratings can get the CE marking and be sold in the EU territories.

ENTR Lot 1 **2015/1095 and 2015/1094** for Professional Refrigeration:

IMPACTED APPLICATIONS

- Condensing units
- Professional refrigerated storage cabinets
- Blast cabinets
- Process chillers

SEASONAL ENERGY PERFORMANCE RATIO (SEPR)

SEPR value for:

- Low temperatures: above 2 kW
- Medium temperatures: above 5 kW
- Below these limits: COP

Minimum Energy Performance Standards for condensing units

Medium temperatures (-10°C) / kW*	0.2-1	1-5	5-20	20-50
COP	1.4	1.6		
SEPR**			2.55	2.65

Low temperatures (-35°C) / kW*	0.1-0.4	0.4-2	2-8	8-20
COP	0.8	0.95		
SEPR**			1.6	1.7

* Rated capacity at full load with ambient temperature set at 32°C (Standards: EN13215 and 13771-2).

** The Seasonal Energy Performance Ratio provides cooling performances at standard rating conditions. It is representative of the variations in load and ambient temperatures throughout the year, and calculated as the ratio between annual cooling demand and annual electricity consumption (Standards: EN13215 and 13771-2 and EcoDesign Directive 2009/125/EC).

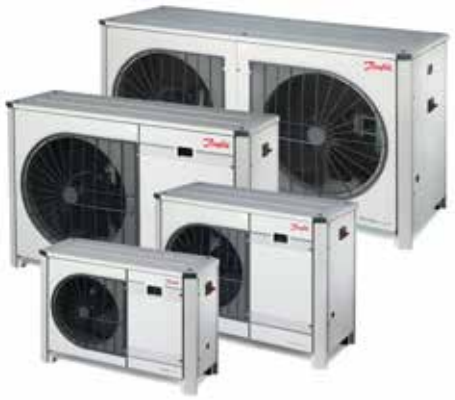
Optyma™ Plus
Equipped for **quietness** and **top performance**

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.



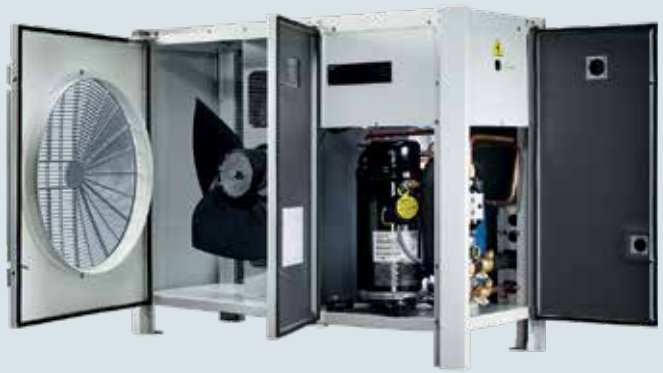
The best sound performance in the market
Due to its long-life compressor, acoustic insulation, component design as well as intelligent fan speed reduction during low capacity operation.

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 handle when fitting in tight spaces, saving installation time.



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.

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: 4 192 kWh

Savings based on cost of energy:
FRANCE: 0.11€ / 1 KWH = 4 192 x 0.11 = 461€
UK: 0.15€ / 1 KWH = 4 192 x 0.15 = 629€
GERMANY: 0.20€ / 1 KWH = 4 192 x 0.20 = 838€

848€ annual electricity savings made by your customer in Germany

* Source: Danfoss

Optyma™ Plus with liquid injection
Inject a little **simplicity and reliability** into your installations

The introduction of electronic liquid injection technology on LBP models enables precise temperature control of the application with an extended operating envelope.

Avoid system breakdown at hot ambient temperatures

The electronic liquid injection helps manage higher discharge temperatures, maintaining best-in-class operating conditions at up to 43°C ambient temperature.

Streamline the refrigerant bottles

Choose one sustainable and economic refrigerant for positive and negative application temperatures:
R448A or R449A.

Reliable over time

The electronic management ensures that the right quantity of liquid is injected into the compressor and increases the system's reliability.

Simple and pre-set safe modulation

The electronic module is pre-programmed to protect the compressor against high discharge temperatures - increasing the system's lifespan.

Refrigerants with a GWP level below 2500

R448A/R449A* – MBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MPYM008	1	114X4119	0.75	1.93			29
OP-MPYM009	1	114X4120	0.80	1.89			30
OP-MPYM012	1	114X4121	1.10	1.89			32
OP-MPYM014	1	114X4122	1.15	1.60			29
OP-MPBM018	1	114X4230	1.47	1.91			36
OP-MPBM024	1	114X4200	1.85	2.08			36
OP-MPBM026	1	114X4212	2.05	1.97			36
	3	114X4213					
OP-MPBM034	1	114X4226	2.56	1.94			36
	3	114X4227					
OP-MPXM034	1	114X4261	3.34	2.07			37
	3	114X4264					
OP-MPXM046	1	114X4281	4.44	2.03			37
	3	114X4284					
OP-MPXM057	1	114X4290	5.28	1.84	3.15	11 624	37
	3	114X4293					
OP-MPXM068	1	114X4308	6.77	2.20	3.48	13 040	38
	3	114X4311					
OP-MPXM080	1	114X4321	7.80	2.14	3.49	16 095	38
	3	114X4324					
OP-MPXM108	3	114X4344	10.17	1.96	3.31	19 632	44
OP-MPXM125	3	114X4414	12.14	2.12	3.42	22 726	46
OP-MPXM162	3	114X4434	14.92	1.91	3.13	14 002	46

R448A/R449A* – LBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -35C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-LPOM067	3	114X3371	2.34	1.12	1.60	12 537	40
OP-LPOM084	3	114X3372	2.94	1.15	1.64	15 390	42
OP-LPOM098	3	114X3373	3.49	1.23	1.75	17 035	43
OP-LPOM120	3	114X3485	4.29	1.20	1.65	22 019	47
OP-LPOM168	3	114X3486	6.07	1.30	1.81	28 436	47

**Cooling capacities are for R449A*

Conditions EN 13215 (dew point): +32°C ambient temp., superheat 10K, subcooling 0K
Rated COP, SEPR & annual electricity consumption at EcoDesign rating conditions:
+32°C ambient, subcooling 0 K, RGT20°C
Values refer to 3-phase units

Optyma™ Plus

Refrigerants with a GWP level below 2500

R134a – MBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MPGM033	1	114X4220	1.66	2.05			36
OP-MPXM034	1	114X4261	2.16	2.25			37
	3	114X4264					
OP-MPXM046	1	114X4281	2.92	2.33			37
	3	114X4284					
OP-MPXM057	1	114X4290	3.54	2.28			37
	3	114X4293					
OP-MPXM068	1	114X4308	4.38	2.37			38
	3	114X4311					
OP-MPXM080	1	114X4321	5.09	2.26	3.43	10 684	38
	3	114X4324					
OP-MPXM108	3	114X4344	6.64	2.40	3.74	11 215	44
OP-MPXM125	3	114X4414	7.98	2.23	3.40	14 818	46
OP-MPXM162	3	114X4434	10.25	2.25	3.46	18 715	46

R513A – MBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MPGM033	1	114X4220	1.76	2.03			36
OP-MPXM034	1	114X4261	2.25	2.24			37
	3	114X4264					
OP-MPXM046	1	114X4281	3.04	2.31			37
	3	114X4284					
OP-MPXM057	1	114X4290	3.70	2.29			37
	3	114X4293					
OP-MPXM068	1	114X4308	4.65	2.48			38
	3	114X4311					
OP-MPXM080	1	114X4321	5.41	2.54	3.82	10 745	38
	3	114X4324					
OP-MPXM108	3	114X4344	7.01	2.36	3.73	12 036	44
OP-MPXM125	3	114X4414	8.46	2.46	3.66	14 798	46
OP-MPXM162	3	114X4434	10.33	2.13	3.15	21 018	46

R452A – MBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MPBM018	1	114X4230	1.39	1.64			33
OP-MPBM024	1	114X4200	1.78	1.83			33
OP-MPBM026	1	114X4212	1.95	1.70			36
	3	114X4213					
OP-MPBM034	1	114X4226	2.50	1.72			37
	3	114X4227					
OP-MPXM034	1	114X4261	3.33	2.02			38
	3	114X4264					
OP-MPXM046	1	114X4281	4.47	2.03			38
	3	114X4284					
OP-MPXM057	1	114X4290	5.49	2.02	3.37	11 399	38
	3	114X4293					
OP-MPXM068	1	114X4308	6.73	2.10	3.39	13 580	39
	3	114X4311					
OP-MPXM080	1	114X4321	7.80	2.09	3.44	16 126	39
	3	114X4324					
OP-MPXM108	3	114X4344	10.38	2.00	3.39	19 878	39
OP-MPXM125	3	114X4414	12.63	2.17	3.49	23 443	46
OP-MPXM162	3	114X4434	15.34	1.92	3.12	31 989	46

R452A – LBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -35°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-LPQM017	1	114X3118	0.40	0.95			29
OP-LPQM026	1	114X3216	0.58	0.96			36
OP-LPQM048	1	114X3233	0.95	1.07			38
	3	114X3225					
OP-LPQM068	1	114X3249	1.22	0.98			39
	3	114X3241					
OP-LPQM074	1	114X3252	1.45	1.00			38
	3	114X3253					
OP-LPOM067	3	114X3371	2.30	1.34	1.74	11 721	40
OP-LPOM084	3	114X3372	2.82	1.29	1.70	14 622	42
OP-LPOM098	3	114X3373	3.28	1.27	1.70	17 028	43
OP-LPOM120	3	114X3485	4.26	1.39	1.88	21 007	47
OP-LPOM168	3	114X3486	6.06	1.38	1.84	28 990	47

Conditions EN 13215 (dew point): +32°C ambient temp., superheat 10K, subcooling 0K
Rated COP, SEPR & annual electricity consumption at EcoDesign rating conditions: +32°C ambient, Subcooling 0 K, RGT20°C
Values refer to 3-phase units

Optyma™ Plus

Refrigerants with a GWP level above 2500

R404A – MBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MPYM008	1	114X4119	0.85	2.11			29
OP-MPYM009	1	114X4120	0.91	1.99			30
OP-MPYM012	1	114X4121	1.24	2.01			32
OP-MPYM014	1	114X4122	1.28	1.69			29
OP-MPBM018	1	114X4230	1.67	1.93			36
OP-MPBM024	1	114X4200	2.07	2.07			36
OP-MPBM026	1	114X4212	2.29	1.95			36
	3	114X4213					
OP-MPBM034	1	114X4226	2.82	1.89			36
	3	114X4227					
OP-MPXM034	1	114X4261	3.40	2.11			37
	3	114X4264					
OP-MPXM046	1	114X4281	4.51	2.03			37
	3	114X4284					
OP-MPXM057	1	114X4290	5.25	1.76	3.01	11 803	37
	3	114X4293					
OP-MPXM068	1	114X4308	7.18	2.31	3.73	12 731	38
	3	114X4311					
OP-MPXM080	1	114X4321	8.35	2.29	3.71	16 158	38
	3	114X4324					
OP-MPXM108	3	114X4344	10.32	2	3.31	20 330	44
OP-MPXM125	3	114X4414	12.82	2.18	3.48	23 945	46
OP-MPXM162	3	114X4434	16.03	1.99	3.23	32 314	46

R404A – LBP

Model	Phases	Code no.	Cooling capacity in [kW] at evaporating temperature -35°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-LPQM017	1	114X3118	0.48	1.07			29
OP-LPQM026	1	114X3216	0.65	1.01			36
OP-LPQM048	1	114X3225	1.00	1.13			38
	3	114X3233					
OP-LPQM074	1	114X3252	1.60	1.06			38
	3	114X3253					
OP-LPQM068	1	114X3241	1.63	1.14			39
	3	114X3249					
OP-LPOM067	3	114X3371	2.60	1.21	1.69	13 079	40
OP-LPOM084	3	114X3372	3.11	1.23	1.77	15 519	42
OP-LPOM098	3	114X3373	3.61	1.26	1.75	17 570	43
OP-LPOM120	3	114X3485	4.69	1.27	1.84	23 295	47
OP-LPOM168	3	114X3486	6.24	125	1.91	29 980	47

Did you know?

From 1st January 2020, R404A is banned in new installations in Europe. Only recycled refrigerant is allowed for servicing.

For regular updates and detailed capacities, please refer to Coolselector®2 software
coolselector.danfoss.com

Conditions EN 13215 (dew point): +32°C ambient temp., superheat 10K, subcooling 0K
Rated COP, SEPR & annual electricity consumption at EcoDesign rating conditions: +32°C ambient, subcooling 0 K, RGT20°C
Values refer to 3-phase units

ENGINEERING
TOMORROW

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Danfoss has a global market presence selling in **over 100 countries** and with factories, Application Development Centers (ADC) and laboratories all over the globe*.

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For **24/7 support**, we have developed intuitive tools and apps to help you to make the right product selection, choose an alternative refrigerant, troubleshoot your installation or be trained to use natural refrigerants or the latest Danfoss products.

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