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.



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.

Optyma[™] Slim Pack W09

Compact and cost effective.

efficiency, faster and safer

W05 base + fan speed

controller and

main switch

included

matter

installation and maintenance

When space, quieter operation,



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 Δ 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™ Plus INVERTER





Optyma™ Plus P00/P02

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

P00 version:

With electronic controller



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P00 base + liquid injection with electronic expansion valve





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

With variable speed drive



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Optyma™ Slim Pack W05



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

With microchannel condenser

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MBP and LBP applications





Designation

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OP - MSXM034 ML W05 G

OP = Optyma

1 Application: $\mathbf{M} = MBP$; $\mathbf{L} = LBP$

2 Condensing unit family: **S** = Slim Pack / **P** = OP Plus, OP Plus INVERTER

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

Displacement in cm³: Example 034 = 34 cm³

Compressor platform: such as VVL = variable speed scroll VLZ

W05: Optyma™ Slim Pack

W09: Optyma[™] **Slim Pack** with fan speed controller and main switch

P00: Optyma™ Plus 7

P02: Optyma™ Plus with liquid injection

P01: Optyma™ Plus INVERTER

Electrical code: **G** = 230V/1-phase compressor & fan $\mathbf{E} = 400 \text{V}/3$ -phase compressor & 230 V/1-phase fan

Feature overview:	Optyma™	Slim Pack	Optym	a™ Plus	Optyma™
	W05	W09	P00	P02	Plus INVERTER
IP level	IP54		IP	IP54	
Compressor technology	Scroll/Rec	iprocating	Scroll/Reciprocating	Scroll	Variable speed scroll
Control box (pre-wired E-panel)	ye	2S	у	es	yes
Microchannel condenser	ye	es	у	es	yes
Fan speed controller	-	yes	у	es	yes
Main switch (circuit breaker)	-	yes	у	es	yes
Filter drier (flare connections)	ye	2S	у	es	yes
Sight glass	ye	es	у	es	yes
Crankcase heater	ye	es	у	yes	
HP/LP adjustable pressostat	Mech	anical	Elect	tronic	Electronic
Liquid injection kit		-	-	yes	-
Fail safe mini-pressostat		-	Mech	nanical	Mechanical
Access door(s)		-	у	yes	
Acoustic insulation		-	у	yes	
Condensing unit electronic controller		-	у	yes	
Network connectivity			у	es	yes
Stack mounting		-	у	es	-
Oil separator		-		-	yes
Net weight in kg	B1 housing: from 50 B2 housing: from 61 B3 housing: from 76	5 to 77	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 91 B2 housing: 690 x 10 B3 housing: 825 x 11	187 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.

	Model and cooling capacity by cold room type	Meat +1°C - 18h			Fish Laborator +1°C - 18h +12°C - 1			Fruit & Vegetables +8°C - 18h		Fruit & Vegetables 0°C - 18h		Butter, Eggs, Cheese +5°C - 18h		Freezers -18°C - 16h	
Range		Cap. [W]	CR* (m³)	Cap. [W]	CR* [m³]	Cap. [W]	CR* [m³]	Cap. [W]	CR* [m³]	Cap. [W]	CR* [m³]	Cap. (W)	CR* [m³]	Cap. [W]	CR* [m³]
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

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

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 $\sim 1.5 \text{ kW}$

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.





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 - LCON 048 MT A02 F **OP** = Optyma Application: $\mathbf{M} = \mathsf{MBP}$; $\mathbf{L} = \mathsf{LBP}$ Platform: 2 C: Air-cooled condensing unit with single fan G: Air-cooled condensing unit with dual fan Refrigerant: R: R134a, R513A, R404A/R507, R407C, R407A, R407F, R448A, R449A, R452A G: R134a, R513A 3 H: R404A/R507 Q: R452A, R404A/R507 N: R290 Condenser design: C: Fin & Tube condenser, ambient temperature up to 43°C N: Microchannel condenser, ambient temperature up to 46°C

Feature overview:

	L	ight Commercia	al	Li	ght Commercial R2	290	Commercial		
	A00	A01	A04	A09	A10	A11	A02		
Ambient temperature		Up to 43°C	1		Up to 43°C		Up to 46°C		
Hermetic reciprocating compressor	MPT, N	MLY, NL, SC, GS, FR,	TL, NF		NLY, NBC, NPT, NS, N	<	MTZ, NTZ		
Unit base			Rails o	base plate			Base plate		
Condenser type			Fin & Tu	be (painted)			Microchannel		
Fan	AC/EC	AC/EC	AC/EC	EC	EC	EC	AC 6 pole		
Bracket & tube for pressostat mounting	- yes yes			yes	-	-	-		
Dual KP pressure switch	-	-	yes	-	-	-	yes		
Schrader valve	-	-	-	yes	yes	yes	-		
Wired electrical box	yes	yes	yes	yes	yes	yes	yes		
Mini HP/LP pressostat	-	-	-	-	yes	-	-		
Power cord	-	-	yes	-	yes	-	-		
Receiver	-	yes	yes	-	Combo drier + receiver		yes		
Net weight in kg	14 chassis: Lighter: 14 Bigger: 42			4 chassis: Lighter: 14 Bigger: 41		5 chassis: Lighter single fan: 62 Bigger single fan: 158 Lighter dual fan: 134 Bigger dual fan: 212			
Dimensions in mm (height x width x depth)	14 chassis: Smaller: 205 x 28' Larger: 350 x 445			4 chassis: Smaller: 226 x Larger: 350 x 4		5 chassis: Smaller single fan: 545 x 630 x 650 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			

Overview by range and refrigerant:

Min / Max cooling capacity (kW)	Light Commercial	Commercial
Medium temperature (MBP)		
R290	0.2 - 1.4	
R448A		2 - 20.5
R449A		2 - 20.5
R134a	0.1 - 1.6	1.3 - 13.1
R452A		2.2 - 20.6
R407A		1.9 - 19.1
R407C		1.8 - 19.1
R407F		2 - 20.1
R404A/507	0.3 - 17	2.2 - 21.7
Low temperature (LBP)		
R290	0.1 - 0.7	
R452A	0.1 - 0.3	0.8 - 6.1
R404A/507	0.1 - 0.9	0.9 - 6.6

5	Compressor displacement: Example 048 = 48 cm ³
6	Reciprocating compressor platform: FR = FR NF = NF SC = SC GS = GS NX = NX NB = NBC NS = NS NY = NLY NP = NPT MP = MPT MY = MLY MX = MX NT = NTZ MT = MTZ TL = TL NL = NL
7	Version: A00, A01, A02, A04, A09, A10, A11. See table above for features within each version.
8	Electrical code: A: Compressor 230V/1P/50-60Hz, fan 230V/1P/50-60Hz G: Compressor 230V/1P/50Hz, fan 230V/1P/50Hz E: Compressor 400V/3P/50Hz, fan 230V/1P/50Hz



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

2022

2025

2030



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 new retrigerants with ≥ 2500 for temperatures

≥ -50°C and change ≥ 40 tonnes CO₂ eq. Except for military equipment



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



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



Servicing equipment using refrigerants with GWP ≥2500 for

temperatures ≥ -50°C and charge ≥40 tonnes CO2 eq. Except for military equipment

EcoDesign affected applications

certain energy performance ratings can get the CE marking and be sold in the EU territories.

ENTR Lot 1 2015/1095 and 2015/1094



IMPACTED APPLICATIONS



SEASONAL ENERGY PERFORMANCE RATIO (SEPR)

- 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™ 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.

bigger sizes for more savings



Quick and safe installation and service

Enjoy fast and easy installation with the main switch, service valves, and quick connections. Additionally, the easy-to-clean Microchannel condenser saves you time and effort on servicing.



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).



All models in the range are highly efficient and well above EcoDesign 2018 thresholds, contributing to a reduction in energy costs.



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.



W09 FEATURES

- for quieter operation
- Main switch for faster stand-alone



Standard range (W05) and upgraded range (W09)



Receiver with

servicing easier

shut-off valve makes

Resistance to corrosion of the heat exchanger and housing prolongs the lifetime of the unit

W09 version:

Main switch for faster standalone installation and start up, and safer maintenance

Ouick connections accelerate installation: iust mount, braze, and plug

Accessible service ports on service valves (suction and liquid)

Dual KP17WB pressure control for enhanced safety

Crankcase heater protects the compressor when operating under cold weather conditions

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

annual electricity savings made by your customer in Germany

Optyma™ Slim Pack

Refrigerants with a GWP level below 2500

R449A - MBP

Cooling Sound capacity in [kW] at ressur Rated COP electricity SEPR consumption [kWh] temp. -10°C dB(A) W05 1 114X7108 OP-MSYM009 0.80 1.89 31 W09 1 114X7133 W05 1 114X7109 OP-MSYM012 1.10 1.89 34 W09 1 114X7134 W05 1 114X7110 OP-MSYM014 1.15 29 1.60 W09 1 114X7135 W05 1 114X7111 1.47 OP-MSBM018 1.91 39 W09 1 114X7136 W05 1 114X7097 OP-MSBM024 1.85 33 2.08 W09 1 114X7194 W05 1 114X7083 W09 1 114X7190 OP-MSBM026 2.05 1.97 36 W05 3 114X7093 W09 3 114X7192 W05 1 114X7084 W09 1 114X7191 OP-MSBM034 2.55 1.92 37 W05 3 114X7094 W09 3 114X7193 W05 1 114X7061 W09 1 114X7195 OP-MSXM034 3.34 2.07 38 W05 3 114X7062 W09 3 114X7196 W09 1 114X7211 OP-MSXM044 4.19 1.98 38 W09 3 114X7212 W05 1 114X7063 W09 1 114X7197 OP-MSXM046 4.44 2.03 38 W05 3 114X7064 W09 3 114X7198 W05 1 114X7065 W09 1 114X7199 OP-MSXM057 5.28 1.84 3.15 11 624 38 W05 3 114X7066 W09 3 114X7200 W05 1 114X7067 W09 1 114X7201 OP-MSXM068 6.77 2.20 3.48 13 040 39 W05 3 114X7068 W09 3 114X7202 W05 1 114X7069 W09 1 114X7203 OP-MSXM080 7.80 2.14 3.49 16 095 39 W05 3 114X7070 W09 3 114X7204 W05 3 114X7071 OP-MSXM099 9.59 2.09 3.46 17 724 39 W09 3 114X7205 W05 3 114X7072 OP-MSXM108 10.17 3.31 19 632 39 W09 3 114X7206

R448A - MBP

Model	Version	Phases	Code no.	Cooling capacity in [kW] at evaporating temp10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)	
	W05	1	114X7061						
OP-MSXM034	W09	1	114X7195	3.35	2.07			38	
OF-1013/N101034	W05	3	114X7062	2.33	2.07			30	
	W09	3	114X7196						
	W05	1	114X7161						
OP-MSXM044	W09	1	114X7211	4.19	1.98			38	
OF-1013A101044	W05	3	114X7162	4.19				30	
	W09	3	114X7212						
	W05	1	114X7063						
OP-MSXM046	W09	1	114X7197	4.45	2.03			38	
OF-1013A101040	W05	3	114X7064	4.45	2.03			38	
	W09	3	114X7198						
	W05	1	114X7065						
OD MCVMOE7	W09	1	114X7199	F 20	1.84	3.15	11 634	20	
OP-MSXM057	W05	3	114X7066	5.29		3.13	11 054	38	
	W09	3	114X7200						
	W05	1	114X7067						
OD MCVMoco	W09	1	114X7201	6.70	2.20	2.40	12.054	20	
OP-MSXM068	W05	3	114X7068	6.78	2.20	3.48	13 054	39	
	W09	3	114X7202						
	W05	1	114X7069						
OD 1461/14000	W09	1	114X7203	7.04	244	2.40	46400	20	
OP-MSXM080	W05	3	114X7070	7.81	2.14	3.49	16 109	39	
	W09	3	114X7204						
OD MCVM000	W05	3	114X7071	0.60	2.00	2.46	17740	20	
OP-MSXM099	W09	3	114X7205	9.60	2.09	3.46	17 740	39	
OD MCVM1200	W05	3	114X7072	10.10	1.00	2.21	10.640	20	
OP-MSXM108	W09	3	114X7206	10.18	1.96	3.31	19 649	39	

Did you know?

Refrigerants flexibility across our ranges:

OP-MSXM057: The "X" letter means that this model is also compatible with multiple refrigerants such as R134a or R407F. This simplifies stock and logistics and reduces costs. Check our designation for the options.

Optyma™ Slim Pack

Refrigerants with a GWP level below 2500

R134a - MBP

R513A - MBP

Model	Version	Code no.	Cooling capacity in [kW] at evaporating temp10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)	Model	Version	Code no.	Cooling capacity in [kW] at evaporating temp10°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-MSGM012		114X7099 114X7207	0.64	1.71			31	OP-MSGM012		114X7099 114X7207	0.66	1.68			31
OP-MSGM015		114X7100 114X7208	0.72	1.64			32	OP-MSGM015		114X7100 114X7208	0.74	1.61			32
OP-MSGM018		114X7101 114X7131	0.86	1.61			32	OP-MSGM018		114X7101 114X7131	0.88	1.57			32
OP-MSGM021		114X7102 114X7132	1.03	1.74			32	OP-MSGM021		114X7102 114X7132	1.06	1.69			32
OP-MSGM026		114X7103 114X7209	1.28	1.80			31	OP-MSGM026		114X7103 114X7209	1.36	1.82			31
OP-MSGM033		114X7104 114X7210	1.66	2.02			36	OP-MSGM033		114X7104 114X7210	1.76	2.03			36
OP-MSXM034	W09 1 W05 3	114X7061 114X7195 114X7062 114X7196	2.16	2.25			38	OP-MSXM034	W09 1 W05 3	114X7061 114X7195 114X7062 114X7196	2.25	2.25			38
OP-MSXM044	W09 1 W05 3	114X7161 114X7211 114X7162 114X7212	2.74	2.23			38	OP-MSXM044	W09 1 W05 3	114X7161 114X7211 114X7162 114X7212	2.87	2.31			38
OP-MSXM046	W09 1 W05 3	114X7063 114X7197 114X7064 114X7198	2.92	2.33			38	OP-MSXM046	W09 1 W05 3	114X7063 114X7197 114X7064 114X7198	3.04	2.31			38
OP-MSXM057	W09 1 W05 3	114X7065 114X7199 114X7066 114X7200	3.54	2.28			38	OP-MSXM057	W09 1 W05 3	114X7065 114X7199 114X7066 114X7200	3.70	2.29			38
OP-MSXM068	W09 1 W05 3	114X7067 114X7201 114X7068 114X7202	4.38	2.37			39	OP-MSXM068	W09 1 W05 3	114X7067 114X7201 114X7068 114X7202	4.65	2.48			39
OP-MSXM080	W05 1 W09 1 W05 3	114X7069 114X7203 114X7070 114X7204	5.09	2.26	3.43	10 684	39	OP-MSXM080	W05 1 W09 1 W05 3	114X7069 114X7203 114X7070 114X7204	5.41	2.54	3.82	10 745	39
OP-MSXM099		114X7071 114X7205	6.29	2.46	3.83	10 365	39	OP-MSXM099		114X7071 114X7205	6.60	2.43	3.71	11 388	39
OP-MSXM108		114X7072 114X7206	6.64	2.40	3.74	11 205	39	OP-MSXM108		114X7072 114X7206	7.01	2.36	3.73	12 036	39

Optyma™ Slim Pack

Refrigerants with a GWP level above 2500

R404A - MBP

Cooling Sound Rated COP electricity Model Code no. in [kW] at SEPR level evaporating temp. -10°C @10m dB(A) [kWh] W05 1 114X7108 OP-MSYM009 0.91 1.99 32 W09 1 114X7133 W05 1 114X7109 OP-MSYM012 W09 1 114X7134 W05 1 114X7110 OP-MSYM014 1.28 W09 1 114X7135 W05 1 114X7111 OP-MSBM018 1.67 1.93 39 W09 1 114X7136 W05 1 114x7097 OP-MSBM024 2.07 2.07 33 W09 1 114X7194 W05 1 114X7083 OP-MSBM026 W05 3 114X7093 W09 1 114X7190 2.29 1.95 36 W09 3 114X7192 W05 1 114X7084 W09 1 114X7191 OP-MSBM034 2.82 1 89 37 W05 3 114X7094 W09 3 114X7193 W05 1 114X7061 W09 1 114X7195 OP-MSXM034 3.40 2.11 38 W05 3 114X7062 W09 3 114X7196 W05 1 114X7161 W09 1 114X7211 OP-MSXM044 4.31 2.07 38 W05 3 114X7162 W09 3 114X7212 W05 1 114X7063 W09 1 114X7197 OP-MSXM046 4.51 2.03 38 W05 3 114X7064 W09 3 114X7198 W05 1 114X7065 W09 1 114X7199 OP-MSXM057 5.25 11 803 3.01 W05 3 114X7066 W09 3 114X7200 W05 1 114X7067 W09 1 114X7201 OP-MSXM068 7.18 2.31 3.73 12 731 39 W05 3 114X7068 W09 3 114X7202 W05 1 114X7069 W09 1 114X7203 OP-MSXM080 8 35 2 29 3 71 16 158 39 W05 3 114X7070 W09 3 114X7204 W05 3 114X7071 OP-MSXM099 9.65 3.37 18 672 39 2.04 W09 3 114X7205 W05 3 114X7072 OP-MSXM108 10.32 3.31 20 330 39 W09 3 114X7206

R404A - LBP

Model	Version	Phases	Code no.	Cooling capacity in [kW] at evaporating temp35°C	Rated COP	SEPR	Annual electricity consumption [kWh]	Sound pressure level @10m dB(A)
OP-LSQM014	W05	1	114X7106	0.44	1.03			29
	W09	1	114X7129					
OP-LSQM018	W05	1	114X7107	0.48	1.07			29
	W09	1	114X7130					
OP-LSQM026	W05	1	114X7085	0.65	1.01			36
0. 230,11020	W09	1	114X7179	0.05	1.0			30
OP-LSQM034	W05	1	114X7086	0.83	0.98			37
01 23011031	W09	1	114X7180	0.05	0.50			
	W05	1	114X7087					
OP-LSQM048	W09	1	114X7181	1.00	1.13			40
	W05	3	114X7088	1.00	1.15			10
	W09	3	114X7182					
	W05	1	114X7095					
OP-LSOM074	W09	1	114X7185	1.43	1.07			44
OI LOQIVIO74	W05	3	114X7096	1.75				
	W09	3	114X7186					
	W05	1	114X7089					
OP-LSQM068	W09	1	114X7183	1.63	1.14			40
OI -LJQIVIOO0	W05	3	114X7090	1.05	1.14			40
	W09	3	114X7184					
OP-LSQM067	W05	3	114X7091	2.60	1.19	1.65	13 276	40
OI-ESQIVIU0/	W09	3	114X7187	2.00	1.17	1.03	13 2/0	40
OP-LSQM084	W05	3	114X7092	3.11	1.21	1.67	15 715	42
OI-EJQIVIU04	W09	3	114X7188	3.11	1.21	1.07	01/61	42
OP-LSQM098	W05	3	114X7075	3.61	1.24	1.72	17 766	43
OF-L3Q101090	W09	3	114X7189	١٥.د	1.24	1./2	17 700	43

Did you know?

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