

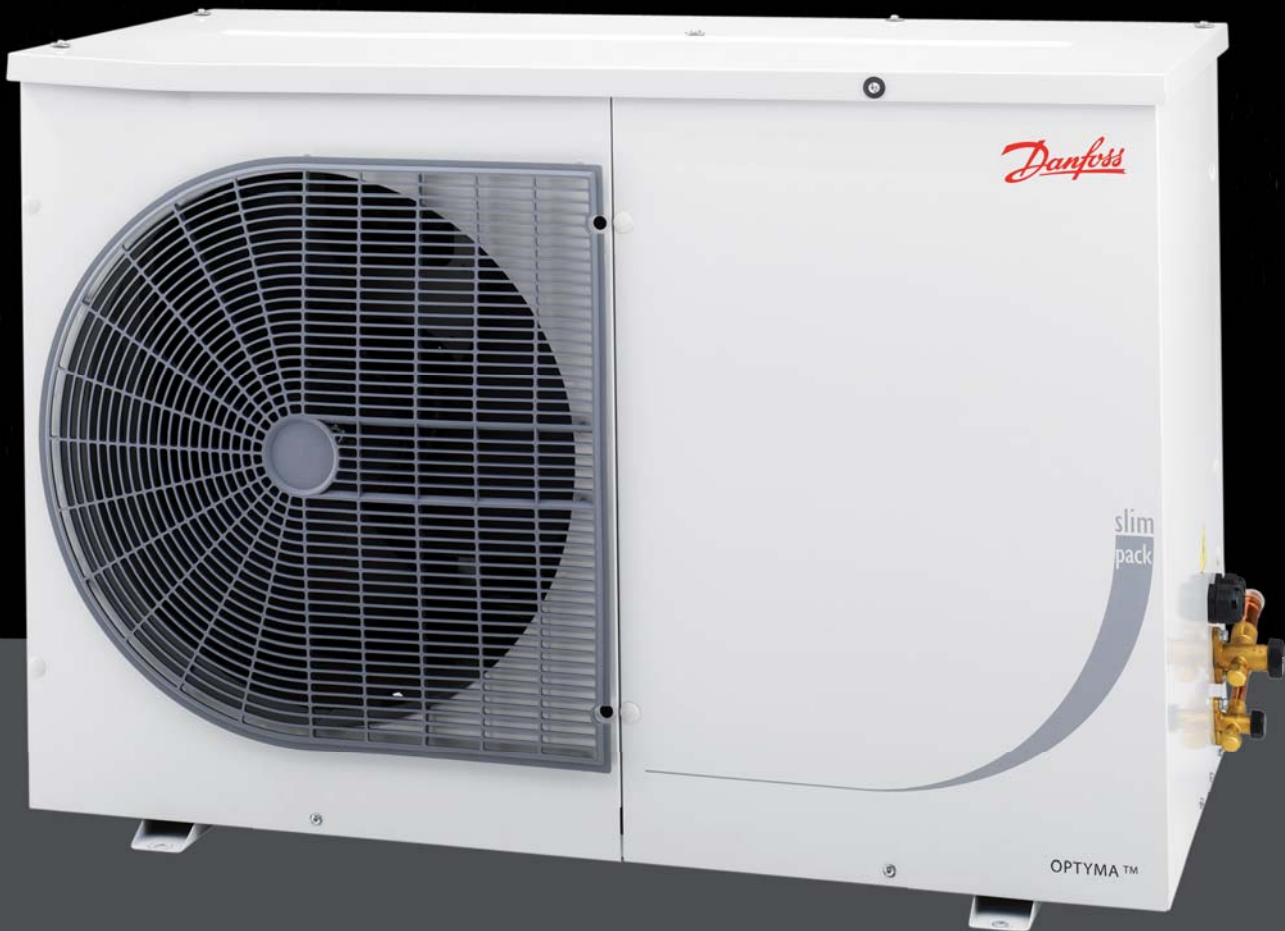


Catalogue

Optyma™ Slim Pack

Just mount, braze and plug

R404A/R507 - R134a



The new cost effective outdoor solution 4

Features and cooling capacity 5
 Main product features..... 5

Condensing unit R404A/R507 MBP 6

Condensing unit R134a MBP 8

Spare parts & accessories R404A/R507 MBP 10
 Electrical characteristics - 230V/1phase/50Hz 10
 Electrical characteristics - 400V/3phase/50Hz 10
 Spare parts 10

Dimensions 11
 Housing B2 11
 Housing B3 11

Electrical wiring diagrams 12

Designation system 14
 Select the right Danfoss Optyma™ Slim Pack..... 14



Compact and light for easy handling and transportation

System designed to perfectly fit into a compact and light housing. The Optyma™ Slim Pack weights up to 87 kg, which makes it the lightest solution in the market.



Well-known Danfoss quality and standards

We provide the units with highly reliable scroll compressors, micro channel heat exchangers and all needed components which are pre-assembled, integrated and factory tested. We at Danfoss do not accept any compromise regarding reliability or quality of our products.



Easy installation and cleaning

With quick connections of suction & liquid lines & service ports outside Optyma™ Slim Pack is among the fastest & easiest to install. Easy to clean MCHC saves your time & efforts, ensuring longer lifetime & optimized efficiency.



Stock and logistics optimization

Multirefrigerant condensing units with optimized packaging cover a wide variety of applications and reduce your stock. They can be used with R404A/R507, R134a, pick what best fits your application.



Increase business opportunity with the new outdoor solution

Thanks to weatherproof housing the Optyma™ Slim Pack meets outdoor application requirements and completes the Optyma™ range.



Environmental friendly

Danfoss Optyma™ Slim Pack condensing units meet the Energy related Product (ErP) directive thanks to high efficiency fan motors.

MBP applications:

- Mini-markets/supermarkets
- Restaurants
- Wine cellars
- Fish markets
- Butchers' shops
- Bakeries
- Laboratories
- Florists
- Petrol stations
- Industrial processes
- Milk cooling
- Dairy and general food storage



Main product features

Outdoor application

Micro channel heat exchanger

Service ports outside

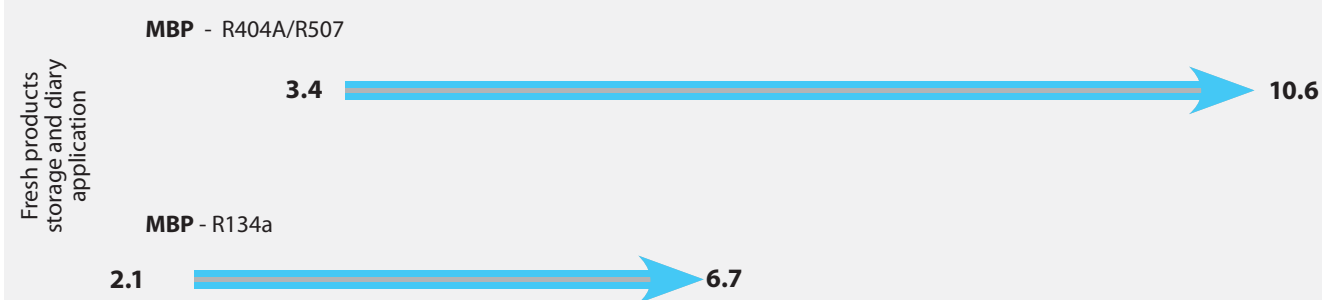


- Weatherproof housing IP54
- Robust and resistant to corrosion
- Compact design

- Easy & fast cleaning
- Less refrigerant charge
- Longer life time

- Fast and easy installation
- Quick connections of suction & liquid lines
- Shut off valves on receiver and service valves on service ports for easier & quick servicing

Cooling capacity range (kW)



Conditions:

- Ambient temperature: 32°C
- Evaporating temperature: -10°C

Optyma™ Slim Pack units can work in the following evaporating temperature range:

MBP R404A/R507 -20°C to +10°C

MBP R134a -15°C to +15°C

For further detailed information, please contact Danfoss.

Fan	Test conditions	Unit	Code	Electrical code	Compressor	Amb. temp. °C	Cooling capacity range in (W) at evaporating temperature (°C)						Power consumption (W) at evap. temp. -10°C
							-15°C	-10°C	-5°C	-0°C	+5°C	+10°C	
	SH 10K	OP-SMLZ015MG	114X7061	G	MLZ015	27	3100	3750	4450	5250	6150	7100	1700
						32	2800	3400	4050	4800	5650	6550	
		OP-SMLZ015ME	114X7062	E	MLZ015	38	2400	2950	3600	4250	5000	5800	
						43	2100	2600	3150	3750	4450	5200	
		OP-SMLZ021MG	114X7063	G	MLZ021	27	4100	4950	5850	6800	7900	9100	2300
						32	3750	4500	5350	6250	7250	8400	
		OP-SMLZ021ME	114X7064	E	MLZ021	38	3350	4000	4750	5550	6500	7500	
						43	2950	3550	4200	4950	5800	6750	
		OP-SMLZ026MG	114X7065	G	MLZ026	27	4900	5850	6900	8000	9200	10500	3050
						32	4500	5350	6250	7300	8400	9600	
		OP-SMLZ026ME	114X7066	E	MLZ026	38	3900	4650	5500	6450	7450	8550	
						43	3400	4100	4850	5700	6600	7600	
		OP-SMLZ030MG	114X7067	G	MLZ030	27	6600	7950	9500	11200	13100	15200	3200
						32	6050	7300	8750	10350	12150	14100	
		OP-SMLZ030ME	114X7068	E	MLZ030	38	5400	6550	7850	9300	10950	12800	
						43	4800	5850	7050	8400	9900	11600	
		OP-SMLZ038MG	114X7069	G	MLZ038	27	7700	9250	11000	12950	15100	17500	3850
						32	7050	8500	10150	11950	13950	16200	
		OP-SMLZ038ME	114X7070	E	MLZ038	38	6250	7550	9050	10700	12550	14600	
						43	5600	6750	8100	9600	11300	13200	
OP-SMLZ045ME	114X7071	E	MLZ045	27	9000	10800	12800	15000	17400	20000	4800		
				32	8250	9900	11750	13800	16050	18500			
OP-SMLZ048ME	114X7072	E	MLZ048	38	7250	8750	10450	12300	14350	16650			
				43	6400	7750	9300	11000	12900	15000			
OP-SMLZ048ME	114X7072	E	MLZ048	27	9700	11600	13700	16000	18550	21350	5250		
				32	8850	10600	12550	14700	17050	19700			
OP-SMLZ048ME	114X7072	E	MLZ048	38	7800	9350	11100	13050	15200	17650			
				43	6900	8300	9850	11650	13650	15900			

Test condition
EN13215
Superheat 10K

Subcooling within the limits of the condensing unit

Electrical code

E Compressor 400V/3phase/50Hz, fan 230V/1phase/50 Hz

G Compressor 230V/1phase/50Hz, fan 230V/1phase/50 Hz

MBP measured in accordance to EN 13215@ -10°C suction, +32°C ambient, SH 10K

MLZ type compressor models are scroll compressors

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within +/- 1% of this value.

Power consumption referred at 32°C ambient temperature

Unit	Condenser coil			Condenser fan blade Ø (mm)	Receiver volume (L)	Dimensions (mm)					Weight (kg)		
	Type	Air flow (m³/h)	Int. volume (dm³)			Housing	Height H (mm)	Width W (mm)	Depth D (mm)	Suction line	Liquid line	Gross	Net
OP-SMLZ015MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ015ME													
OP-SMLZ021MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ021ME													
OP-SMLZ026MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ026ME													
OP-SMLZ030MG	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ030ME													
OP-SMLZ038MG	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ038ME													
OP-SMLZ045ME	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ048ME	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87

Fan	Test conditions	Unit	Code	Electrical code	Compressor	Amb. temp. °C	Coling capacity range in (W) at evaporating temperature (°C)						Power consumption (W) at evap. temp. -10°C	
							-15°C	-10°C	-5°C	-0°C	+5°C	+10°C		
	SH 10K	OP-SMLZ015MG	114X7061	G	MLZ015	27	1800	2300	2850	3500	4200	5050	1000	
						32	1700	2150	2700	3300	4000	4800		
		OP-SMLZ015ME	114X7062	E	MLZ015	38	1600	2000	2500	3100	3750	4500		
						43	1500	1900	2350	2900	3500	4250		
		OP-SMLZ021MG	114X7063	G	MLZ021	27	2450	3100	3800	4650	5600	6650	1300	
						32	2350	2900	3600	4400	5300	6300		
						OP-SMLZ021ME	114X7064	E	MLZ021	38	2150	2700		3350
		43	2000	2500	3150					3850	4650	5550		
		OP-SMLZ026MG	114X7065	G	MLZ026	27	2950	3750	4600	5600	6700	7950		1600
						32	2800	3500	4350	5300	6350	7550		
						OP-SMLZ026ME	114X7066	E	MLZ026	38	2600	3250	4050	
		43	2400	3050	3750					4600	5550	6600		
		OP-SMLZ030MG	114X7067	G	MLZ030	27	3750	4700	5850	7150	8650	10400	1850	
						32	3550	4450	5550	6800	8250	9900		
						OP-SMLZ030ME	114X7068	E	MLZ030	38	3300	4150		5150
		43	3100	3900	4850					6000	7300	8750		
		OP-SMLZ038MG	114X7069	G	MLZ038	27	4350	5500	6800	8350	10050	12000		2250
						32	4100	5200	6450	7900	9550	11450		
						OP-SMLZ038ME	114X7070	E	MLZ038	38	3800	4800	6000	
		43	3550	4500	5650					6950	8400	10100		
OP-SMLZ045ME	114X7071	E	MLZ045	27	5350	6750	8350	10200	12300	14600	2600			
				32	5050	6350	7900	9650	11700	13900				
				38	4700	5900	7300	9000	10900	13000				
				43	4400	5500	6850	8400	10200	12200				
OP-SMLZ048ME	114X7072	E	MLZ048	27	5700	7100	8800	10750	12900	15300		2800		
				32	5350	6700	8300	10150	12250	14550				
				38	4950	6200	7700	9450	11400	13600				
43	4600	5800	7200	8850	10700	12750								

Test condition
EN13215
Superheat 10K
Electrical code

Subcooling within the limits of the condensing unit

 E Compressor 400V/3phase/50Hz, fan 230V/1phase/50 Hz
 G Compressor 230V/1phase/50Hz, fan 230V/1phase/50 Hz

 MBP measured in accordance to EN 13215@ - 10°C suction, +32°C ambient, SH 10K
 MLZ type compressor models are scroll compressors

Cooling capacity is given for units with 3-phase compressor. Capacity of single-phase versions is within +/- 1% of this value.

Power consumption referred at 32°C ambient temperature

Unit	Condenser coil			Condenser fan blade Ø (mm)	Receiver volume (L)	Dimensions (mm)						Weight (kg)	
	Type	Air flow (m ³ /h)	Int. volume (dm ³)			Housing	Height H (mm)	Width W (mm)	Depth D (mm)	Suction line	Liquid line	Gross	Net
OP-SMLZ015MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ015ME													
OP-SMLZ021MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ021ME													
OP-SMLZ026MG	D7	3700	0.6	457	3.4	B2	695	1106	464	3/4"	1/2"	74	66
OP-SMLZ026ME													
OP-SMLZ030MG	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ030ME													
OP-SMLZ038MG	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ038ME													
OP-SMLZ045ME	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87
OP-SMLZ048ME	G7	6700	1.8	609	6.2	B3	830	1106	464	7/8"	1/2"	96	87

Electrical characteristics - 230V/1phase/50Hz

Unit	Wiring diagram	LRA compressor (A) 230 V/ 1 phase	MCC compressor (A) 230 V/ 1 phase	Max cont. power consumption (kW)	MCC Fan (A) 230 V/ 1 phase	Fan Power (W)
OP-SMLZ015MG	WD1	60	19	2.53	0.47	1x68
OP-SMLZ021MG		97	25	3.38		
OP-SMLZ026MG		97	26	4.42		
OP-SMLZ030MG		127	32	4.89	0.96	1x120
OP-SMLZ038MG		130	38	5.77		

Electrical characteristics - 400V/3phase/50Hz

Unit	Wiring diagram	LRA compressor (A) 400 V/ 3phase	MCC compressor (A) 400 V/ 3phase	Max cont. power consumption (kW)	MCC Fan (A) 230 V/ 1 phase	Fan Power (W)
OP-SMLZ015ME	WD2	30	7	2.73	0.47	1x68
OP-SMLZ021ME		45	9.5	3.33		
OP-SMLZ026ME		45	10	4.14		
OP-SMLZ030ME		60	13	4.88	0.96	1x120
OP-SMLZ038ME		70	15	5.78		
OP-SMLZ045ME		82	15	7.01		
OP-SMLZ048ME		87	16	7.55		

Note
LRA (Locked Rotor Amps)
MCC (Maximum Continuous Current)

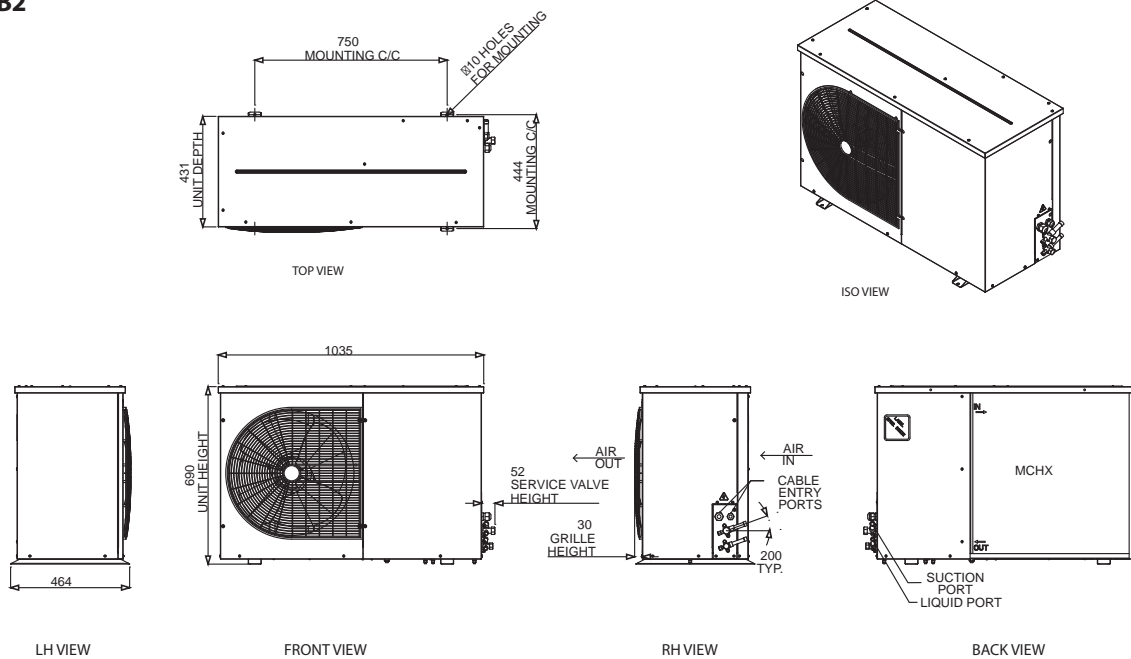
Spare parts

Unit	Filter drier		Sight glass		Suction valve		Liquid valve		Dual Pressure switch	
OP-SMLZ015MG/E	DML084 DCL084	023Z5041 023Z5006	SGN+12	014F0173	3/4" brazed	118U3764	1/2" brazed	118U3761	KP 17 WB	060-539766
OP-SMLZ021MG/E										
OP-SMLZ026MG/E										
OP-SMLZ030MG/E	DML164 DCL164	023Z5044 023Z5009	SGN+12s	014F0183	7/8" brazed	118U3762				
OP-SMLZ038MG/E										
OP-SMLZ045ME										
OP-SMLZ048ME										

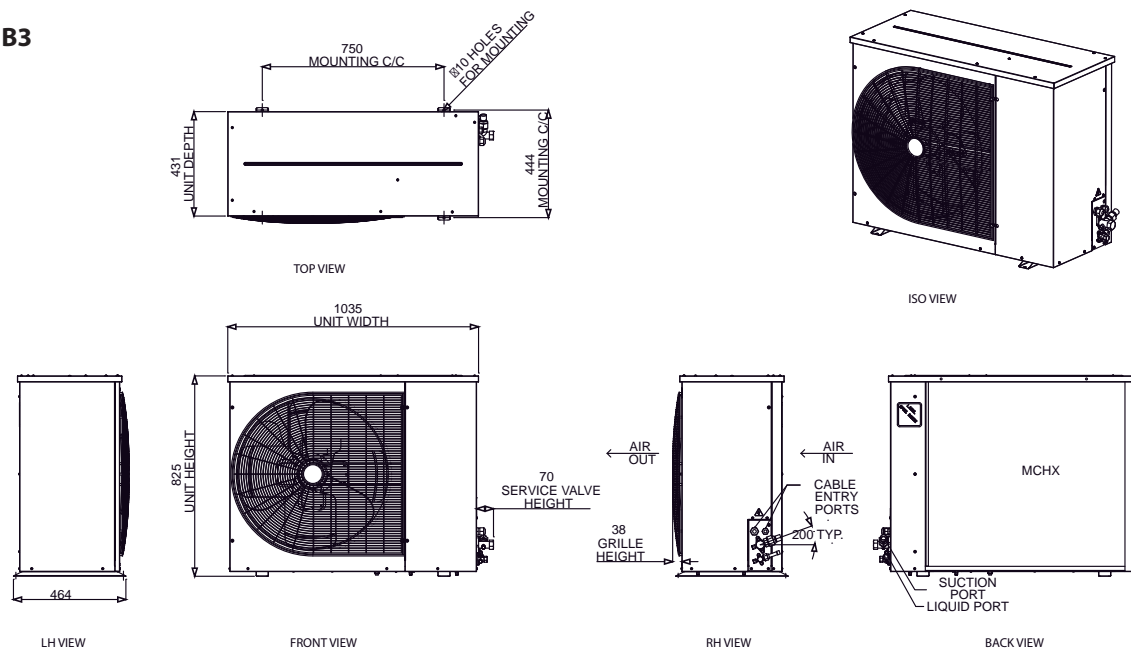
Spare parts

Unit	Fan capacitor (µF)		Receiver (L)		Fan motor (W) (capacitor not included)		Fan blade		Fan grill		Condenser	Crankcase heater	Code number
OP-SMLZ015MG/E	3.5	118U3297	3.4	118U3475	68	118U3823	f18"	118U3481	B2	118U3484	118U3493	Belt 70 W	120Z5040
OP-SMLZ021MG/E													
OP-SMLZ026MG/E													
OP-SMLZ030MG/E	6	118U3298	6.2	118U3476	120	118U3479	f24"	118U3482	B3	118U3485	118U3494		
OP-SMLZ038MG/E													
OP-SMLZ045ME													
OP-SMLZ048ME													

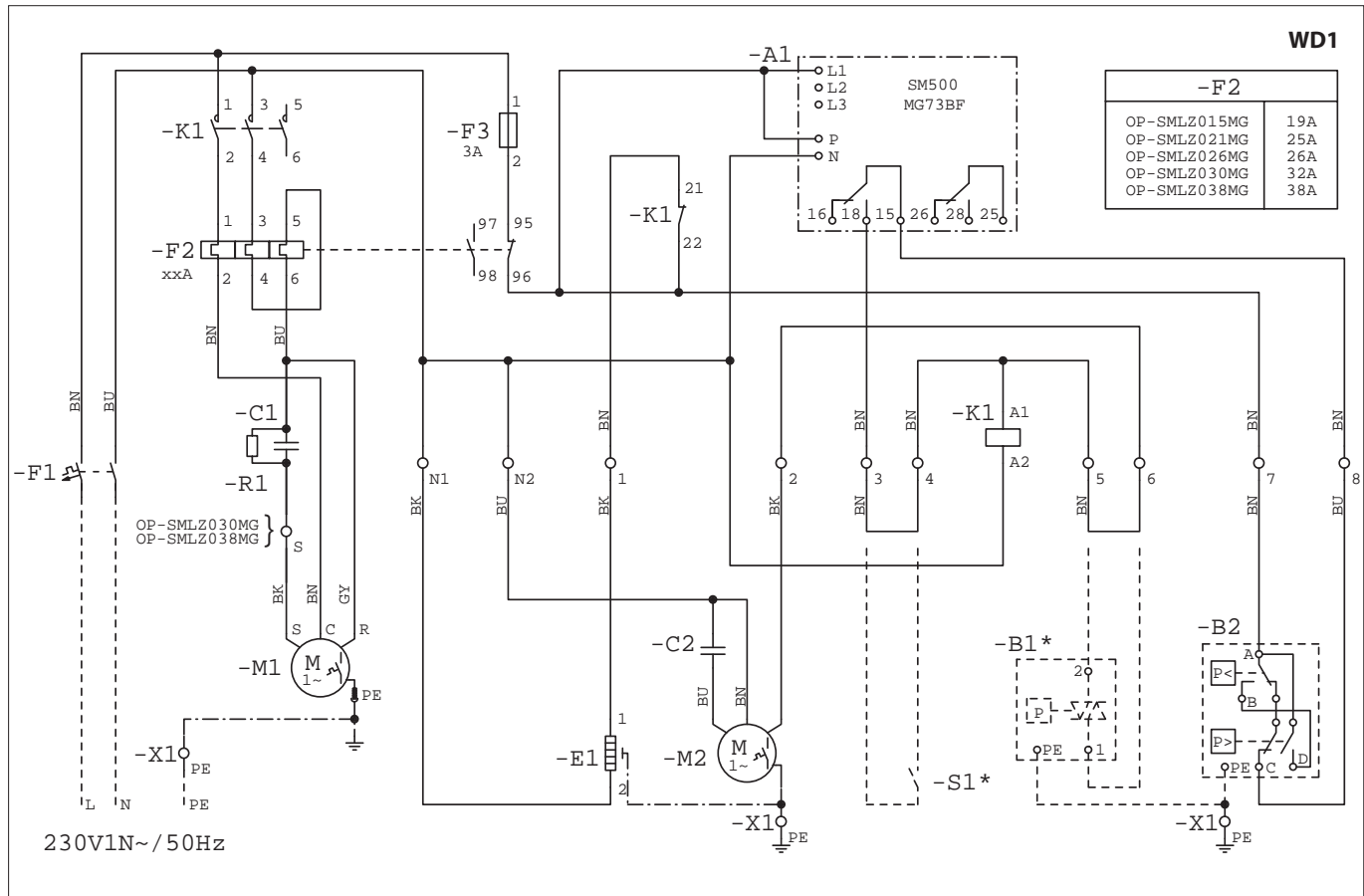
Housing B2



Housing B3



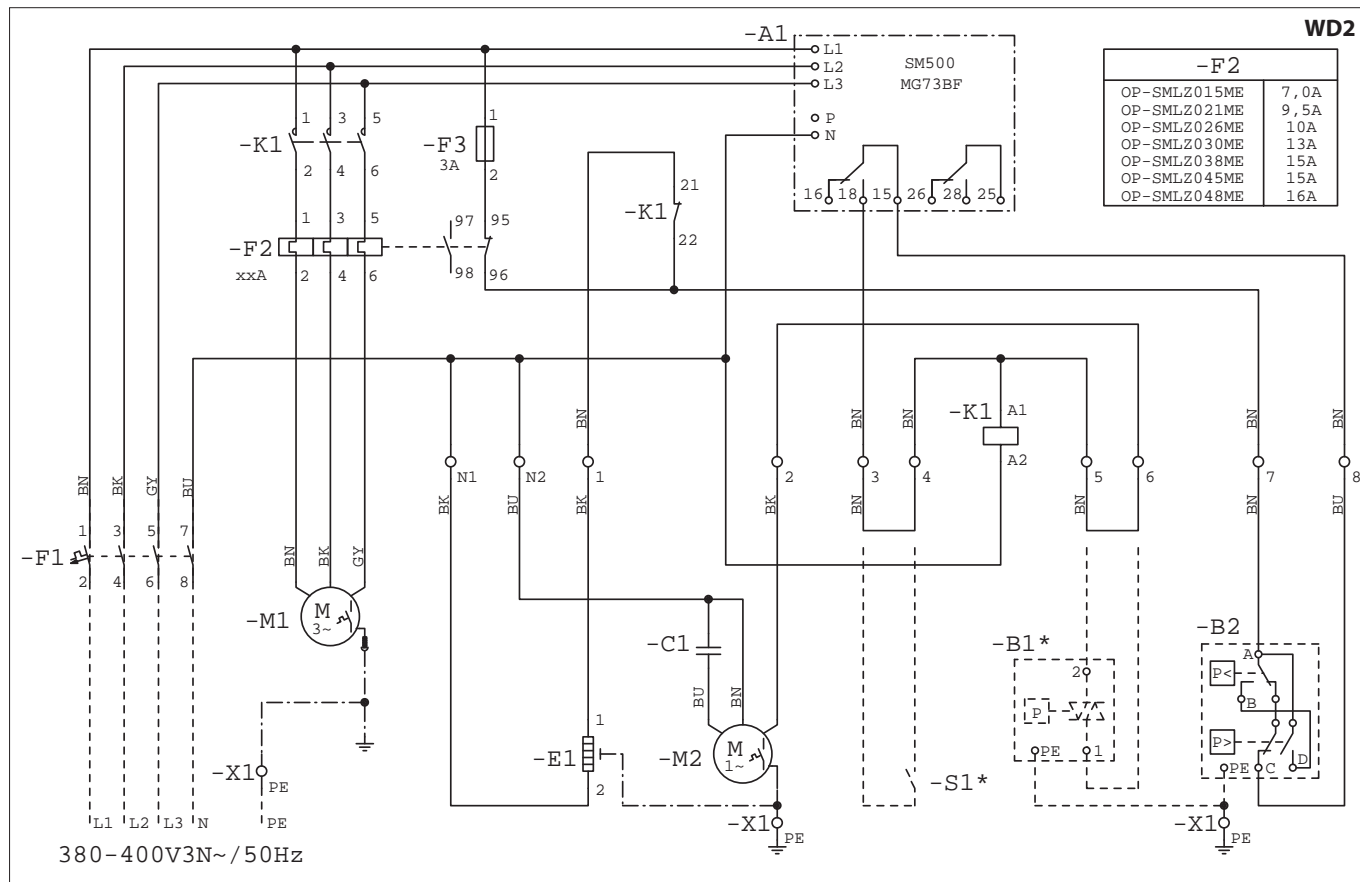
Code G: OP-SMLZ015-021-026-030-038



Legend:
 BK: black
 BU: blue
 BN: brown
 GY: grey
 RD: red
 WH: white

A1: voltage relay
 B1*: fan speed controller (option)
 B2: high and low pressure switch
 E1: crankcase heater
 M1: compressor
 M2: fan motor
 S1*: room thermostat (option)

Code E: OP-SMLZ015-021-026-030-038-045-048

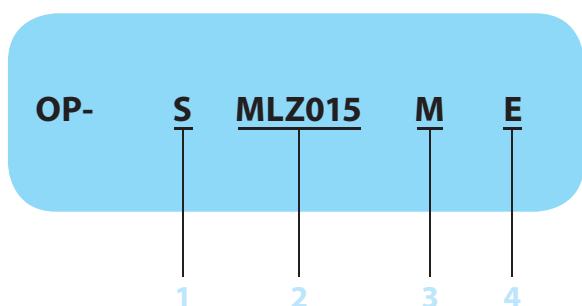


Legend:
 BK: black
 BU: blue
 BN: brown
 GY: grey
 RD: red
 WH: white

A1: voltage relay
 B1*: fan speed controller (option)
 B2: high and low pressure switch
 E1: cranksage heater
 M1: compressor
 M2: fan motor
 S1*: room thermostat (option)

Designation system for the Optyma™ Slim Pack range

(additional program frequency etc.: please contact your local wholesaler)



1	Model: S= Optyma™ Slim Pack
2	Compressor model
3	Application M= MBP
4	Voltage code: G= 230V/1ph compressor & fan E= 400V/3ph compressor & 230V/1ph fan

Select the right Danfoss Optyma™ Slim Pack condensing unit according to your needs

	Meat +1°C - 18h		Fish +1°C - 18h		Laboratory +12°C - 18h		Food & vegetables +8°C - 18h		Food & vegetables 0°C - 18h		Butter, eggs & cheese +5°C - 18h	
	Cap.* (W)	CR** (m³)	Cap.* (W)	CR** (m³)	Cap.* (W)	CR** (m³)	Cap.* (W)	CR** (m³)	Cap.* (W)	CR** (m³)	Cap.* (W)	CR** (m³)
SMLZ015ME	3 700	45	3 700	45	4 800	40	4 800	120	3 700	45	4 050	65
SMLZ021ME	4 850	60	4 850	60	6 250	60	6 250	180	4 850	65	5 350	85
SMLZ026ME	5 500	75	5 500	75	7 300	75	7 300	210	5 500	75	6 250	110
SMLZ030ME	7 850	110	7 850	110	10 350	150	10 350	280	7 850	120	8 750	160
SMLZ038ME	9 100	140	9 100	140	11 950	180	11 950	350	9 100	140	10 150	200
SMLZ045ME	10 800	170	10 800	170	13 800	210	13 800	430	10 800	170	11 750	245
SMLZ048ME	11 350	180	11 350	180	14 700	220	14 700	450	11 350	180	12 550	260

Data refers to +32°C ambient temperature
 Refer to Danfoss for different working conditions
 Application - Cold room Temperature - Daily working hours
 *Cooling capacity at 32°C amb. temp.
 ** Volume of cold room



Danfoss Commercial Compressors is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermetic compressors which has brought us amongst the global leaders in our business, and positioned us as distinct variable speed technology specialists. Today we operate from engineering and manufacturing facilities spread across three continents.



Danfoss Variable Speed scroll compressors



Danfoss Air Conditioning scroll compressors



Danfoss Heat Pump scroll compressors



Maneurop® Variable Speed reciprocating compressors



Danfoss Refrigeration scroll compressors



Maneurop® Reciprocating Compressors



Optyma™ & Optyma Plus™ Condensing Units



Light commercial reciprocating compressors (manufactured by Secop)

Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

Danfoss Commercial Compressors <http://cc.danfoss.com>

member of:



www.asercom.org

Danfoss can accept no responsibility for possible errors in catalogues, brochures and other printed material. Danfoss reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequential changes being necessary in specifications already agreed. All trademarks in this material are property of the respective companies. Danfoss and the Danfoss logotype are trademarks of Danfoss A/S. All rights reserved.

FRCC.PK.038.A3.02 November 2012 - Replace FRCC.PK.038.A2.02 October 2012

Copyright Danfoss Commercial Compressors - 11/2012