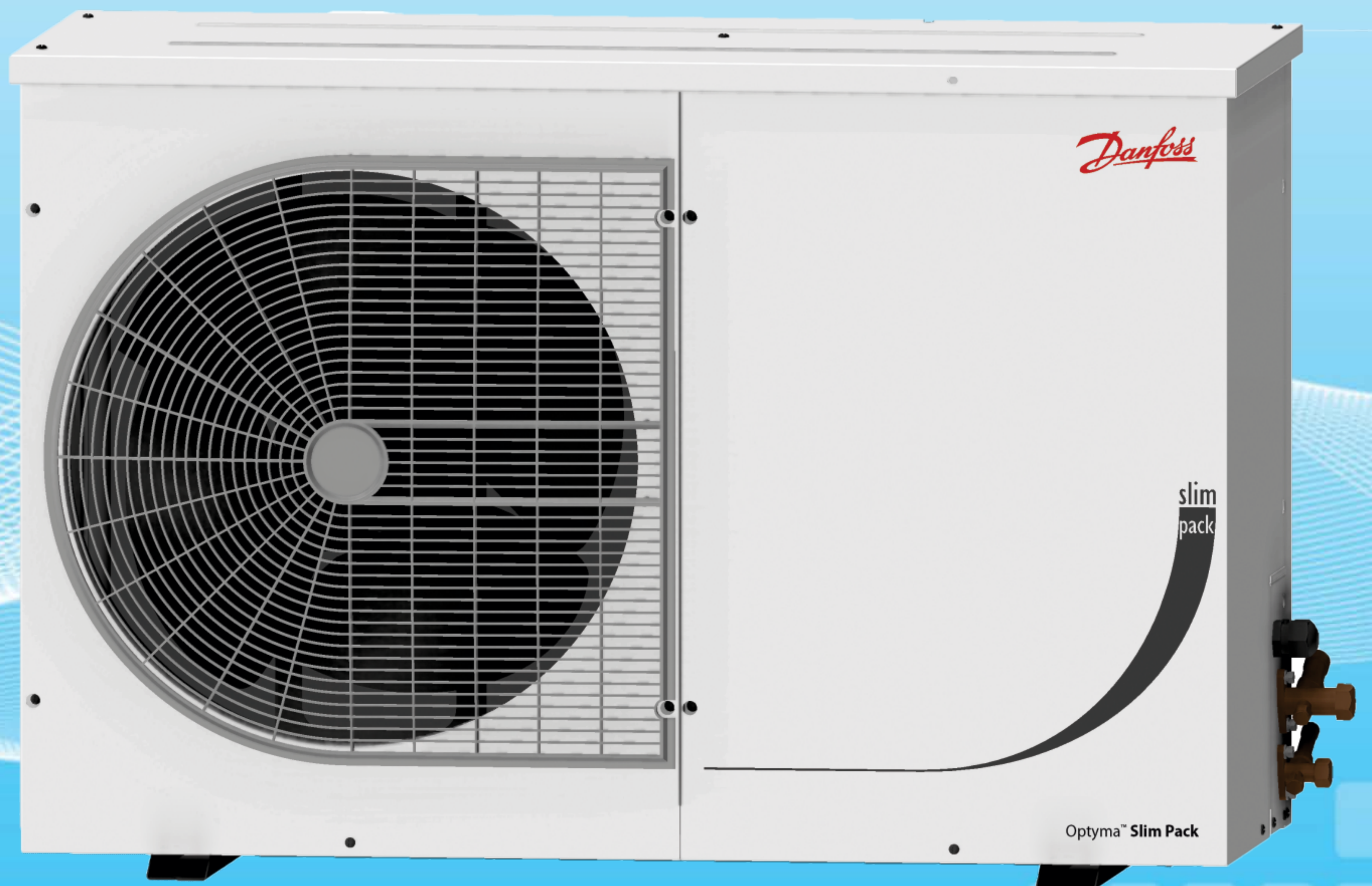


# EUROCOOL

Designed to work. Built to last.

*Danfoss* Optyma Information



# Danfoss Optyma, the sensible solution

## Optyma Family

### Optyma Slim Pack

- Cost effective solution.
- Get all the basic equipment but under a quality brand, Danfoss.
- Because it has no electronics it is simple to install and robust enough for the African market (Power fluctuations/load shedding etc.)

### Optyma Plus

- This is a higher spec unit with hinged doors.
- Unit is managed by electronics so it offers better energy efficiency.
- It can also be remotely monitored in order to receive alarms.

### Optyma Inverter

- Same unit as the Optyma Plus but is variable speed using a Danfoss Drive.
- This unit offers extremely good food quality due to accurate control of temperature.
- Extremely energy efficient when you run multiple evaporators off this unit because it can adapt to capacity demand.

# The cost effective outdoor solutions



## 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 87Kg, which makes it the lightest solution in the market.



## 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 MCHE saves your time & efforts, ensuring longer lifetime & optimized efficiency.

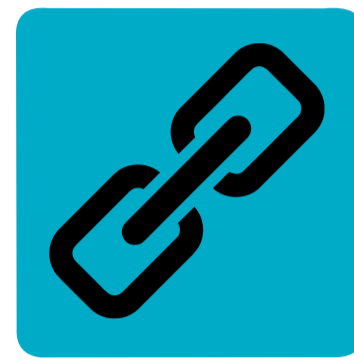


## Tailored for outdoor use

Thanks to the weatherproof housing and corrosion resistant micro-channel heat exchanger the Optyma Slim Pack meets your outdoor application requirements and completes the Optyma range.

### MBP and LBP applications:

- \* Mini-markets/supermarkets
- \* Restaurants
- \* Wine cellars
- \* Fish markets
- \* Butchers' shops
- \* Bakeries
- \* Laboratories
- \* Florists
- \* Petrol stations / Convenience stores
- \* Industrial processes
- \* Milk cooling
- \* Dairy and general food storage
- \* Cold rooms
- \* Freezers



## Well-known Danfoss quality and standards

We provide the units with highly reliable scroll and reciprocating compressors, micro channel heat exchangers and all needed components which are pre-assembled, integrated and factory tested.



## Increase business opportunity with extended range of condensing units

Danfoss Optyma Slim Pack extends your possibilities with models for low and medium temperatures.




## Environmental Friendly

Danfoss Optyma Slim Pack condensing units meet the energy related product (ErP) directive applicable for fan motors.



# Optyma Slim Pack Low Temp R404A

Fan	Test conditions	Unit	Code	Electrical code	Compressor	Amb. temp. °C	Cooling capacity range in (W) at evaporating temperature (°C)							Sound power level dB(A)	Sound pressure level full sphere 10m dB(A)
							-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C		
 SH 10K		OP-LSHM015	114X7081	G	SC15CLX.2	27	340	460	590	760	950	1170	1420	63	32
						32	300	400	530	680	860	1070	1300		
						38	240	340	460	600	760	950	1160		
						43	200	290	390	520	670	840	1040		
		OP-LSHM018	114X7082	G	SC18CLX.2	27	370	500	650	830	1030	1270	1540	63	32
						32	320	440	580	750	940	1160	1410		
						38	270	370	500	650	820	1030	1260		
						43	220	310	430	570	730	910	1120		
		OP-LSHM026	114X7085	G	CAJ2446Z	27	500	700	1000	1250	1600	2000	2450	67	36
						32	450	650	850	1150	1450	1800	2200		
						38		550	750	1000	1250	1600	1950		
						43		450	650	850	1100	1400	1750		
		OP-LSHM034	114X7086	G	CAJ2464Z	27	700	950	1250	1650	2100	2600	3150	68	37
						32	600	850	1150	1500	1900	2350	2900		
						38	500	750	1000	1300	1650	2100	2600		
						43		650	850	1150	1500	1850	2300		
OP-LSHM048	114X7087	G	NTZ048	27	800	1150	1550	2050	2650	3300	4000	71	40		
				32	650	1000	1400	1850	2350	2950	3600				
	114X7088	E		38	550	850	1200	1600	2050	2550	3150				
				43	450	700	1000	1350	1750						
OP-LSHM074	114X7095	G	FH2511Z	27	1200	1650	2250	2950	3700	4550	5450	71	40		
				32	1000	1450	1950	2600	3300	4050	4950				
	114X7096	E		TFH2511Z	38		1150	1650	2200	2800	3550			4300	
					43		950	1400	1900	2450	3100			3800	
OP-LSHM068	114X7089	G	NTZ068		27	1350	1850	2450	3100	3850	4650	5550	71	40	
					32	1150	1650	2150	2750	3450	4200	5050			
	114X7090	E		38	950	1350	1850	2400	3000	3650	4400				
				43	800	1200	1600	2100	2600						
OP-LSHM067	114X7091	E	LLZ013	27	2200	2850	3550	4450	5400	6550	7850	71	40		
				32	2050	2600	3300	4100	5000	6050	7250				
				38	1800	2350	2950	3700	4500	5450	6550				
				43	1600	2100	2650	3300	4100	4950	5950				
OP-LSHM084	114X7092	E	LLZ015	27	2650	3400	4300	5300	6550	7900	9500	73	42		
				32	2450	3150	3950	4900	6000	7300	8750				
				38	2200	2800	3550	4400	5400	6550	7850				
				43	1950	2500	3150	3950	4850	5850	7050				
OP-LSHM098	114X7075	E	LLZ018	27	3100	3950	4950	6150	7550	9100	10900	74	43		
				32	2850	3650	4600	5650	6950	8400	10000				
				38	2550	3250	4100	5050	6200	7500	8950				
				43	2250	2900	3650	4550	5550	6700	8050				

**Test Condition**  
Superheat 10K  
Subcooling 0K

**Electrical code**

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

LLZ 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

# Optyma Slim Pack Medium Temp R404A

Fan	Test conditions	Unit	Code	Electrical code	Compressor	Amb. temp. °C	Cooling capacity range in (W) at evaporating temperature (°C)							Sound power level dB(A)	Sound pressure level full sphere 10m dB(A)
							-20°C	-15°C	-10°C	-5°C	0°C	+5°C	+10°C		
SH 10K	OP-MSHM010	114X7077	G	SC10MLX	27	570	730	920	1140	1410	1710		62	31	
					32	510	650	820	1030	1270	1550				
					38	430	560	710	890	1110	1360				
					43		480	610	780	970					
	OP-MSHM012	114X7078	G	SC12MLX	27	700	890	1110	1380	1690	2060		62	31	
					32	620	790	1000	1240	1530	1870				
					38	530	680	860	1080	1340	1640				
					43		590	750	940	1170					
	OP-MSHM015	114X7079	G	SC15MLX	27	870	1100	1370	1690	2070	2510		63	32	
					32	770	980	1230	1540	1890	2300				
					38	660	850	1070	1340	1660	2040				
					43		730	940	1180	1470					
	OP-MSHM018	114X7080	G	SC18MLX	27	1010	1280	1590	1970	2410	2920		63	32	
					32	900	1140	1440	1790	2200	2670				
					38	770	990	1250	1560	1930	2370				
					43		860	1090	1370	1710					
	OP-MSHM024	114X7097	G	CAJ9513Z	27	1400	1800	2300	2800	3400	4100	4800	67	36	
					32	1250	1650	2050	2550	3100	3700	4400			
					38	1100	1400	1800	2250	2750	3300	3900			
					43		1250	1600	2000	2450	2950	3500			
OP-MSHM026	114X7083	G	CAJ4517Z	27	1600	2050	2500	3100	3700	4400	5150	67	36		
	32			1400	1800	2300	2800	3400	4000	4700					
	114X7093			E	TAJ4517Z	38	1200	1550	2000	2450	3000			3550	4200
	43						1350	1750	2200	2650	3200			3750	
OP-MSHM034	114X7084	G	CAJ4519Z	27	2000	2550	3100	3750	4450	5250	6100	68	37		
	32			1800	2300	2800	3400	4100	4800	5600					
	114X7094			E	TAJ4519Z	38	1550	2000	2500	3000	3600			4250	4950
	43						1750	2200	2700	3250	3800			4450	
OP-MSUM034	114X7061	G	MLZ015	27	2500	3100	3750	4450	5250	6150	7100	69	38		
	32			2250	2800	3400	4050	4800	5650	6550					
	114X7062			E	38	1950	2400	2950	3600	4250	5000			5800	
	43					1650	2100	2600	3150	3750	4450			5200	
OP-MSUM046	114X7063	G	MLZ021	27	3400	4100	4950	5850	6800	7900	9100	69	38		
	32			3100	3750	4500	5350	6250	7250	8400					
	114X7064			E	38	2750	3350	4000	4750	5550	6500			7500	
	43					2400	2950	3550	4200	4950	5800				
OP-MSUM057	114X7065	G	MLZ026	27	4100	4900	5850	6900	8000	9200	10500	69	38		
	32			3700	4500	5350	6250	7300	8400	9600					
	114X7066			E	38	3200	3900	4650	5500	6450	7450			8550	
	43					2800	3400	4100	4850	5700	6600				
OP-MSUM068	114X7067	G	MLZ030	27	5400	6600	7950	9500	11200	13100	15200	70	39		
	32			4950	6050	7300	8750	10350	12150	14100					
	114X7068			E	38	4400	5400	6550	7850	9300	10950			12800	
	43					3900	4800	5850	7050	8400	9900			11600	
OP-MSUM080	114X7069	G	MLZ038	27	6300	7700	9250	11000	12950	15100	17500	70	39		
	32			5800	7050	8500	10150	11950	13950	16200					
	114X7070			E	38	5100	6250	7550	9050	10700	12550			14600	
	43					4550	5600	6750	8100	9600	11300			13200	
OP-MSUM099	114X7071	E	MLZ045	27	7400	9000	10800	12800	15000	17400	20000	70	39		
				32	6750	8250	9900	11750	13800	16050	18500				
				38	5950	7250	8750	10450	12300	14350	16650				
				43	5250	6400	7750	9300	11000	12900	15000				
OP-MSUM108	114X7072	E	MLZ048	27	8000	9700	11600	13700	16000	18550	21350	70	39		
				32	7300	8850	10600	12550	14700	17050	19700				
				38	6400	7800	9350	11100	13050	15200	17650				
				43		5600	6900	8300	9850	11650	13650				

**Test Condition**  
 Superheat 10K  
 Subcooling 0K

**Electrical code**  
 E - Compressor 400V/3phase/50Hz, fan 230V/1phase/50Hz  
 G- Compressor 230V/1phase/50Hz, fan 230V/1phase/50Hz

LLZ 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

# Optyma Plus

Quietly efficient plug & play solution  
R452a, R134A, R448A, R449A, R407A, R407F, R404A/R507 - 50Hz

## Optyma Plus Low Temp - R404A

Code number	Model number	Electrical code	Tamb [°C]	Cooling capacity Q [kW]							P [kW]		EcoDesign (3)				Sound power level dB(A)	Sound pressure level 10 m dB(A)
				Te [°C]							COP (2)	Q [kW]	P [kW]	COP <sub>A</sub>	SEPR			
				-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						-25°C		
114X3476	OP-LPQM215LLP00E	E	27	4.00	5.08	6.39	7.93	9.72	11.76	14.07								
			32	3.68	4.69	5.89	7.31	8.96	10.84	12.96	5.00	1.46	5.31	4.26	1.25	1.71	78	47
			38	3.27	4.19	5.27	6.54	8.01	9.69	11.60								
			43	2.92	3.75	4.73	5.87	7.19	8.70	10.42								
114X3482	OP-LPQM271LLP00E	E	27	5.43	6.82	8.47	10.38	12.57	15.04	17.79								
			32	4.95	6.24	7.75	9.50	11.49	13.74	16.24	6.79	1.40	7.11	5.79	1.23	1.81	78	47
			38	4.34	5.50	6.85	8.39	10.14	12.12	14.33								
			43	3.78	4.84	6.04	7.41	8.97	10.72	12.68								

LBP

(1) G - Compressor 230V/1-/50Hz, fan 230V/1-/50Hz  
E - Compressor 400V/3-/50Hz, fan 230V/1-/50Hz

(2) Nominal conditions, Saturated suction temperature -25°C. Ambient air temperature +32°C. Superheat 10K

(3) Rated conditions, Saturated suction temperature -35°C. Ambient air temperature +32°C. Return gas temperature 20°C

## Optyma Plus Medium Temp - R404A

Code number	Model number	Electrical code	Tamb [°C]	Cooling capacity Q [kW]							P [kW]		EcoDesign (3)				Sound power level dB(A)	Sound pressure level 10 m dB(A)
				Te [°C]							COP (2)	Q [kW]	P [kW]	COP <sub>A</sub>	SEPR			
				-40°C	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C						-25°C		
114X4414	OP-MPXM125MLP00E	E	27	9.41	11.58	14.00	16.68	19.61	22.80	26.23								
			32	8.51	10.55	12.82	15.33	18.07	21.07	24.31	6.16	2.08	13.54	6.21	2.18	3.48	77	46
			38	7.39	9.26	11.33	13.63	16.15	18.91	21.91								
			43	6.40	8.13	10.03	12.15	14.47	17.03	19.84								
114X4434	OP-MPXM162MLP00E	E	27	12.52	15.01	17.72	20.69	23.93	27.47	31.32								
			32	11.40	13.62	16.03	18.68	21.59	24.80	28.32	8.42	1.90	16.98	8.52	1.99	3.23	77	46
			38	10.03	11.88	13.91	16.16	18.66	21.46	24.59								
			43	8.88	10.40	12.08	13.98	16.13	18.58	21.37								

MBP

(1) G - Compressor 230V/1-/50Hz, fan 230V/1-/50Hz  
E - Compressor 400V/3-/50Hz, fan 230V/1-/50Hz

(2) Nominal conditions, Saturated suction temperature -10°C.  
Ambient air temperature +32°C. Superheat 10K

(3) Rated conditions, Saturated suction temperature -10°C.  
Ambient air temperature +32°C. Return gas temperature 20°C

SEPR, Seasonal Energy Performance Ratio

Q [kW], Cooling Capacity

P [kW], Power Input



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# Optyma Plus Inverter, R404A

Model number	Code number	Compressor	Compressor speed, rps	Tamb [°C]	Cooling capacity Q [kW]					P [kW]	COP (1)	EcoDesign (2)				Sound power level dB(A)	Sound pressure level 10 m dB(A)
					Te [°C]							Q [kW]	P [kW]	COP <sub>A</sub>	SEPR		
					-15 °C	-10 °C	-5 °C	0 °C	5 °C								
OP-MPPM028VVLP01E	114X4302	VLZ028TGA	30	27	1597	1990	2446	2972	3573	1002	1.85					71.2	40.2
				32	1484	1854	2284	2780	3349								
				38	-	-	-	-	-								
				43	-	-	-	-	-								
			50	27	2700	3340	4080	4929	5894	1537	2.02					71.9	40.9
				32	2505	3106	3802	4601	5510								
				38	2266	2820	3168	4198	5039								
				43	2060	2574	3168	3853	4636								
			75	27	3994	4916	5976	7181	8542	2349	1.95					72.5	41.5
				32	3707	4574	5569	6701	7981								
				38	3354	4151	4633	6110	7290								
				43	3048	3785	4633	5600	6698								
100	27	5202	6381	7724	9241	10939	3317	1.79	6250	3328	1.88	3.47	73.7	42.7			
	32	4832	5939	7198	8620	10214											
	38	4368	5384	5965	7845	9310											
	43	3962	4899	5965	7171	8528											
OP-MPPM035VVLP01E	114X4316	VLZ035TGA	30	27	2027	2517	3085	3739	4485	1159	2.02					73.1	42.1
				32	1878	2339	2875	3491	4196								
				38	-	-	-	-	-								
				43	-	-	-	-	-								
			50	27	3402	4193	5108	6153	7338	1794	2.17					73.8	42.8
				32	3158	3899	4755	5735	6846								
				38	2854	3533	3937	5215	6236								
				43	2590	3215	3937	4766	5711								
			75	27	4962	6087	7381	8853	10511	2813	2.01					74.4	43.4
				32	4610	5659	6866	8240	9790								
				38	4169	5126	5672	7481	8899								
				43	3784	4662	5672	6826	8133								
100	27	6354	7768	9389	11226	13287	4070	1.77	7614	4088	1.86	3.77	75.4	44.4			
	32	5901	7218	8727	10438	12360											
	38	5331	6529	7183	9460	11214											
	43	4828	5926	7183	8614	10227											
OP-MPPM044VVLP01E	114X4334	VLZ044TGA	30	27	2620	3236	3949	4767	5698	1391	2.16					73.1	42.1
				32	2426	3008	3681	4453	5334								
				38	-	-	-	-	-								
				43	-	-	-	-	-								
			50	27	4322	5303	6426	7700	9134	2288	2.16					73.9	42.9
				32	4012	4932	5987	7183	8532								
				38	3623	4470	4964	6541	7784								
				43	3284	4067	4964	5985	7139								
			75	27	6267	7656	9231	10997	12960	3618	1.97					74.5	43.5
				32	5812	7111	8583	10234	12070								
				38	5243	6432	7078	9289	10972								
				43	4744	5839	7078	8472	10027								
100	27	8008	9755	11715	13888	16273	5190	1.74	9560	5220	1.83	3.76	75.5	44.5			
	32	7406	9033	10856	12879	15102											
	38	6648	8128	8852	11626	13651											
	43	5980	7335	8852	10539	12399											

[1] Nominal conditions, Evaporating temperature -10°C. Ambient air temperature +32°C. Superheat 10K

[2] Rated conditions, Evaporating temperature -10°C. Ambient air temperature +32°C. Return gas temperature 20°C

SEPR, Seasonal Energy Performance Ratio

Q [W], Cooling Capacity

P [W], Power Input



**EUROCOOL**

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