



Producer: **Danfoss**

Line: **MLZ**

Model: **MLZ048T4A**

Cooling capacity [kW]: **10.49**

Displacement [m³/h]: **18.7**

Refrigerant: **R22, R134a, R404A, R407A, R407F, R448A, R449A, R452A, R513A**

Capacity control: **None**

Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	18.7
Swept volume	[cm ³]	107.48
Oil charge	[l]	1.57
Oil type		POE 215PZ
Net weight	[kg]	37.20
Gross weight	[kg]	43.22

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	16.0
Locked rotor amperage	[A]	87.0
Revolutions per minute	[RPM]	2900

Limits

Maximum suction pressure	[bar]	26.2
Maximum discharge pressure	[bar]	31.1

Dimensions

Suction tube diameter ¹	[inch]	7/8
Discharge tube diameter ¹	[inch]	3/4
Suction valve diameter ²	[inch]	7/8
Discharge valve diameter ²	[inch]	3/4
Suction connection thread diameter ²	[inch]	1 1/4
Discharge connection thread diameter ²	[inch]	1 1/4
Diameter	[mm]	184
Height	[mm]	455
Oil equalization		None
Oil drain		1/4" Flare

¹ For version with brazed connection type.
² For version with Rotolock connection type.

Other

Product codes	120U8015, 120U8016, 121L8015, 121L8016, 121U8015, 121U8016, 121U8578, 121U8579, 121L8650, 121L8651, 121L8808, 121L8809
Approved refrigerants	R22, R134a, R404A, R407A, R407F, R448A, R449A, R452A, R513A
Capacity control	None
Protection rating	IP22
Glass mounting	Threaded

Shipped equipment

Motor protection	Internal overload protector
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Performance

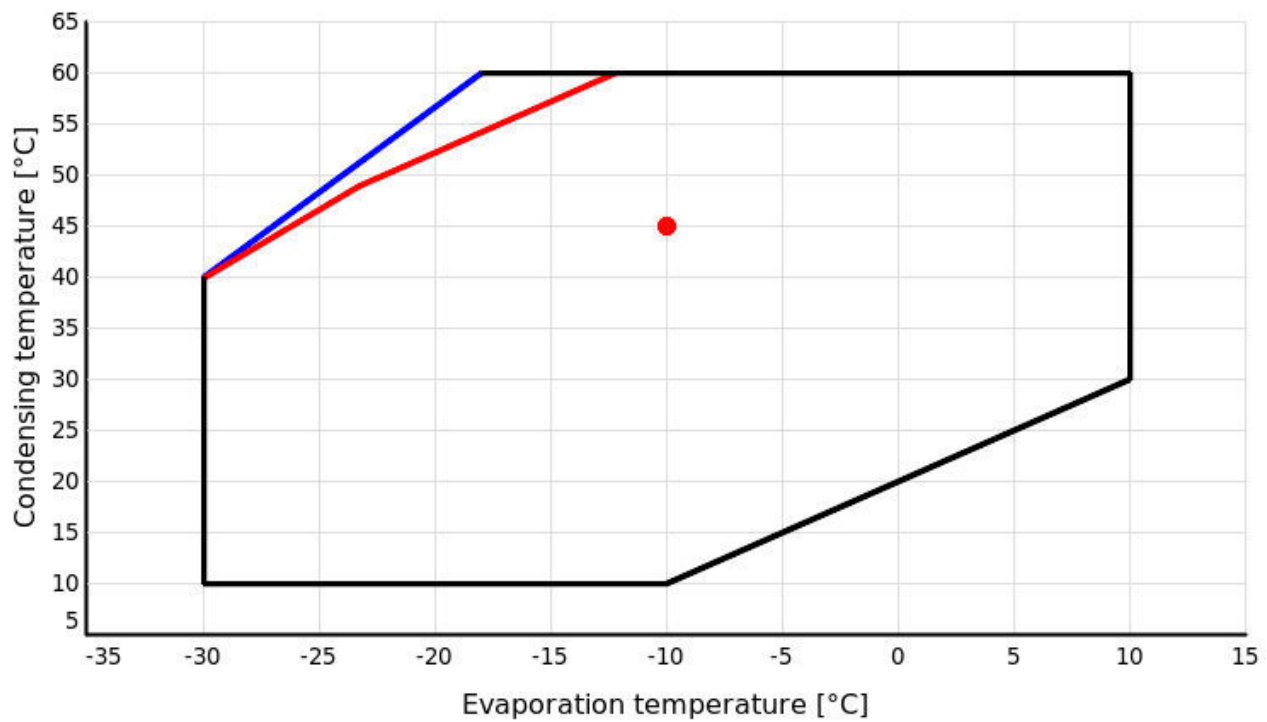
Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

Cooling capacity

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	10	7.47	9.15	11.18	13.59	16.40				
	15	7.07	8.75	10.75	13.11	15.87	19.06			
	20	6.61	8.27	10.23	12.53	15.22	18.31	21.85		
	25	6.11	7.73	9.64	11.87	14.46	17.45	20.87	24.74	
	30	5.57	7.13	8.97	11.11	13.60	16.47	19.75	23.48	27.69
	35	4.99	6.49	8.24	10.28	12.65	15.38	18.51	22.09	26.13
	40	4.39	5.81	7.46	9.38	11.61	14.19	17.16	20.56	24.42
	45		5.10	6.63	8.42	10.49	12.91	15.70	18.91	22.58
	50			5.76	7.40	9.31	11.54	14.14	17.15	20.61
	55			4.86	6.33	8.06	10.09	12.48	15.27	18.51
	60				5.23	6.76	8.58	10.73	13.29	16.30

Power consumption

		Evaporation temperature [°C]								
		-30	-25	-20	-15	-10	-5	0	5	10
Condensation temperature [°C]	10	2.25	2.22	2.18	2.16	2.14				
	15	2.61	2.57	2.54	2.51	2.48	2.46			
	20	2.99	2.95	2.92	2.89	2.86	2.84	2.82		
	25	3.39	3.36	3.33	3.31	3.28	3.26	3.24	3.22	
	30	3.83	3.80	3.78	3.76	3.74	3.72	3.71	3.69	3.67
	35	4.28	4.27	4.26	4.26	4.25	4.23	4.22	4.21	4.20
	40	4.77	4.78	4.78	4.79	4.79	4.79	4.79	4.79	4.78
	45		5.31	5.34	5.36	5.38	5.39	5.41	5.42	5.42
	50			5.93	5.97	6.01	6.04	6.07	6.10	6.12
	55			6.56	6.62	6.68	6.74	6.79	6.84	6.88
	60				7.32	7.41	7.49	7.56	7.63	7.69

Application range**Legend**

- Suction gas superheating: 10 K
- Suction gas temperature: 20 K

