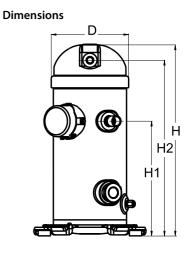
Scroll compressor, MLZ015T5

antoss

Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)	MLZ015T5LP9A	MLZ015T5LP9A	
Code number for Singlepack*	121U8631	121L8631	
Code number for Industrial pack**	121U8630	121L8630	
Drawing number	0XC6300B-1	0XC6300B-1	
Suction and discharge connections	Brazed	Brazed	
Suction connection	3/4 " ODF	3/4 " ODF	
Discharge connection	1/2 " ODF	1/2 " ODF	
Oil sight glass	Threaded	Threaded	
Oil equalisation connection	None	None	
Oil drain connection	1/4" flare	1/4" flare	
LP gauge port	None	None	
IPR valve	32 bar	32 bar	
Swept volume	33.77 c	:m3/rev	
Displacement @ Nominal speed	5.9 m3/h @	مِ 2900 rpm	
Net weight	31	kg	
Oil charge	1.06 litre	e, POE	
Maximum system test pressure Low Side / High side	- bar(g)	- bar(g) / - bar(g)	
Maximum differential test pressure	- t	- bar	
Maximum number of starts per hour	1	12	
Refrigerant charge limit	3.62	3.63 kg	
Approved refrigerants	R404A,R507,R134a,R407A,R4	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22	



D=164.5 mm H=412 mm H1=250 mm H2=379 mm H3=- mm

Electrical Characteristics

Nominal voltage	230V/1/50Hz	
Voltage range	207-253 V	F
Winding resistance (main / start) at 25°C	1.016 Ω / 1.599 Ω	
Run capacitors A + C	40 μF + - μF	
Start capacitor B	145-175 μF	l 1
Start relay	RVA9CKL	
Rated Load Amps (RLA)	12.2 A	
Maximum Continuous Current (MCC)	19 A	
Locked Rotor Amps (LRA)	60 A	
Motor protection	Internal overload protector	

Recommended Installation torques

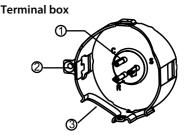
Suction Rotolock nut or valve	0 Nm	
Discharge Rotolock nut or valve	0 Nm	
Oil sight glass	52.5 Nm	
Power connections / Earth connection	0 Nm / 0 Nm	IP2
		1:

Parts shipped with compressor

Mounting kit with grommets and sleeves Initial oil charge Installation instructions

Approvals : CE certified, -, -

*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet **Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet





2:

3:

Power cable passage

Earth connection



Datasheet, accessories and spare parts

Scroll compressor, MLZ015T5

Rotolock accessories, suction side	Code no.	
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008	
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029	
Gasket, 1-1/4"	8156131	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007	Solder sleeve adapter set
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031	
Gasket, 1"	8156130	
Rotolock accessories, sets	Code no.	
Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126	1 2 3 4
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	1. Detaile du adapter (Cure 8 Dia)
	120Z0648	1: Rotolock adapter (Suc & Dis)
POE lubricant, 215PZ(PL46HB), 1 litre can	12020648	2: Gasket (Suc & Dis)
Crankcase heaters	Code no.	3: Solder sleeve (Suc & Dis) 4: Rotolock nut (Suc & Dis)
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040	
Miscellaneous accessories	Code no.	
Acoustic hood	120Z5083	
Discharge thermostat kit	7750009	
IP54 upgrade kit	118U0056	
Spare parts	Code no.	
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005	
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers Terminal box cover	120Z5005 120Z5015	

Datasheet, technical data

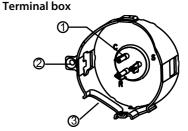
General Characteristics

Model number (on compressor nameplate)		MLZ015T5LT9A	
Code number for Singlepack*		121U8715	
Code number for Industrial pack**		121U8714	Dimensio
Drawing number		0XC6290B-1	Г
Suction and discharge connections		Rotolock	
Suction connection		2-1/4 " Rotolock	
Discharge connection		1-3/4 " Rotolock	f
Suction connection with supplied sleeve		1-5/8 " -	L
Discharge connection with supplied sleeve	- "	1-1/8 " -	
Oil sight glass		Threaded	(
Oil equalisation connection		None	
Oil drain connection		None	
LP gauge port		None	
IPR valve		None	
Swept volume	33.77 cm3/rev		
Displacement @ Nominal speed	5.9 m3/h @ 2900 rpm		
Net weight	31 kg		
Oil charge	1.06 litre, POE		
Maximum system test pressure Low Side / High side	- bar(g) / - bar(g)		r de la companya de l
Maximum differential test pressure	- bar		
Maximum number of starts per hour	12		D=184 mm
Refrigerant charge limit	3.63 kg		H=412.1 mm
Approved refrigerants	R404A,R507,R134a,R407A,R407F,R448A,R449A,R452A,R22		H1=249.8 m

D H2 Н H1 đ

H=412.1 mm H1=249.8 mm H2=379.4 mm

H3=- mm



Spade connectors 1/4"

Earth connection

Power cable passage

2:

3:

Electrical Characteristics

Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	1.016 Ω / 1.599 Ω
Run capacitors A + C	40 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	12.2 A
Maximum Continuous Current (MCC)	19 A
Locked Rotor Amps (LRA)	60 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	52.5 Nm	
Power connections / Earth connection	0 Nm / 0 Nm	IP22
		- 11 22
A (1)		1:

Parts shipped with compressor

Mounting kit with grommets and sleeves Initial oil charge Installation instructions

Approvals : CE certified, UL certified (file SA11565), -

*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet **Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet

Dimensions

Scroll compressor, MLZ015T5

Danfoss

Datasheet, accessories and spare parts

Scroll compressor, MLZ015T5

Rotolock accessories, suction side	Code no.	
Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006	
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026	
Gasket, 2-1/4"	8156133	Gaskets, sleeves and nuts
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004	
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005	((())) ((())opf (())))
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028	
Gasket, 1-3/4"	8156132	
		1 2 3
Rotolock accessories, sets	Code no.	
Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383	1: Gasket
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013	2: Solder sleeve
		3: Rotolock nut
Oil / lubricants	Code no.	
POE lubricant, 215PZ(PL46HB), 1 litre can	120Z0648	
Crankcase heaters	Code no.	
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040	
Miscellaneous accessories	Code no.	
Acoustic hood	120Z5083	
Discharge thermostat kit	7750009	
IP54 upgrade kit	118U0056	
Spare parts	Code no.	
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005	
Terminal box cover	120Z5015	

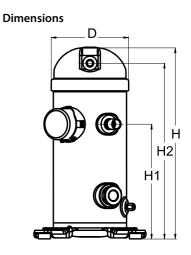
Scroll compressor, MLZ015T5

antoss

Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)	MLZ015T5LP9	MLZ015T5LP9	
Code number for Singlepack*	121U8024	120U8024	
Code number for Industrial pack**	121U8023	120U8023	
Drawing number	0XC6300B-1	0XC6300B-1	
Suction and discharge connections	Brazed	Brazed	
Suction connection	3/4 " ODF	3/4 " ODF	
Discharge connection	1/2 " ODF	1/2 " ODF	
Oil sight glass	Threaded	Threaded	
Oil equalisation connection	None	None	
Oil drain connection	1/4" flare	1/4" flare	
LP gauge port	None	None	
IPR valve	32 bar	32 bar	
Swept volume	33.77	cm3/rev	
Displacement @ Nominal speed	5.9 m3/h (@ 2900 rpm	
Net weight	31	l kg	
Oil charge	1.06 litr	1.06 litre, PVE	
Maximum system test pressure Low Side / High side	- bar(g)	- bar(g) / - bar(g)	
Maximum differential test pressure	-	- bar	
Maximum number of starts per hour		12	
Refrigerant charge limit	3.6	3.63 kg	
Approved refrigerants	R404A, R507, R134a, R4	R404A, R507, R134a, R407A, R407C, R407F, R22	



D=164.5 mm H=412 mm H1=250 mm H2=379 mm H3=- mm

Electrical Characteristics

Nominal voltage	230V/1/50Hz	
Voltage range	207-253 V	Н
Winding resistance (main / start) at 25°C	1.016 Ω / 1.599 Ω	
Run capacitors A + C	40 μF + - μF	
Start capacitor B	145-175 μF	Т
Start relay	RVA9CKL	·
Rated Load Amps (RLA)	12.2 A	
Maximum Continuous Current (MCC)	19 A	
Locked Rotor Amps (LRA)	60 A	
Motor protection	Internal overload protector	

Recommended Installation torques

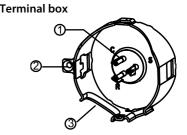
Suction Rotolock nut or valve	0 Nm	
Discharge Rotolock nut or valve	0 Nm	
Oil sight glass	52.5 Nm	
Power connections / Earth connection	0 Nm / 0 Nm	IF
		1:

Parts shipped with compressor

Mounting kit with grommets and sleeves Initial oil charge Installation instructions

Approvals : CE certified, -, -

*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet **Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet



Spade connectors 1/4" Earth connection

2:

3:

Power cable passage



Datasheet, accessories and spare parts

Scroll compressor, MLZ015T5

Rotolock accessories, suction side	Code no.	
Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008	
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029	
Gasket, 1-1/4"	8156131	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007	Solder sleeve adapter set
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031	
Gasket, 1"	8156130	
Rotolock accessories, sets	Code no.	
Solder sleeve adapter set (1-1/4" Rotolock, 3/4" ODF), (1" Rotolock, 1/2" ODF)	120Z0126	1 2 3 4
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	1: Rotolock adapter (Suc & Dis)
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034	2: Gasket (Suc & Dis)
		3: Solder sleeve (Suc & Dis)
Crankcase heaters	Code no.	4: Rotolock nut (Suc & Dis)
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040	
Miscellaneous accessories	Code no.	
Acoustic hood	120Z5043	
Discharge thermostat kit	7750009	
IP54 upgrade kit	118U0056	
Spare parts	Code no.	
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005	
Terminal box cover	120Z5015	

Datasheet, technical data

General Characteristics

	MLZ01515L19	_
	121U8521	
	121U8520	Dimensions
	0XC6290B-1	
	Rotolock	
	2-1/4 " Rotolock	
	1-3/4 " Rotolock	
	1-5/8 " -	
- "	1-1/8 " -	
	Threaded	
	None	
33.77 c	m3/rev	
5.9 m3/h @) 2900 rpm	
31	kg	
1.06 litre	e, PVE	
- bar(g) ,	/ - bar(g)	
- b	ar	
1	2	D=184 mm
3.63	3 kg	H=412.1 mm
R404A, R507, R134a, R4	07A, R407C, R407F, R22	H1=249.8 mm
	33.77 c 5.9 m3/h @ 31 1.06 litre - bar(g) / - b 1 3.65	121U8520 0XC6290B-1 Rotolock 2-1/4 " Rotolock 1-3/4 " Rotolock - " 1-1/8 "- Threaded None None None None

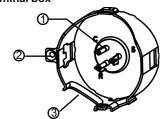
D H2 Н H1 <u>7</u>34 đ

H2=379.4 mm H3=- mm

2:

3:

Terminal box



Spade connectors 1/4"

Earth connection Power cable passage

Electrical Characteristics	
Nominal voltage	230V/1/50Hz
Voltage range	207-253 V
Winding resistance (main / start) at 25°C	1.016 Ω / 1.599 Ω
Run capacitors A + C	40 μF + - μF
Start capacitor B	145-175 μF
Start relay	RVA9CKL
Rated Load Amps (RLA)	12.2 A
Maximum Continuous Current (MCC)	19 A

Recommended Installation torgues

Oil sight glass	52.5 Nm]
Power connections / Earth connection	0 Nm / 0 Nm	IP22
		- 11 22
A		1:

60 A

Internal overload protector

Parts shipped with compressor

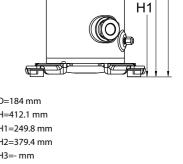
Mounting kit with grommets and sleeves Initial oil charge Installation instructions

Approvals : CE certified, -, -

Locked Rotor Amps (LRA)

Motor protection

*Singlepack: Compressor in cardboard box. 121U... optimised for Danfoss pallet, 120U... optimised for US pallet **Industrial pack: 121U..: 12 unboxed compressors on Danfoss pallet. 120U..: 16 unboxed compressors on US pallet





Scroll compressor, MLZ015T5

Danfoss

Datasheet, accessories and spare parts

Scroll compressor, MLZ015T5

Rotolock accessories, suction side	Code no.	
Solder sleeve, P03 (2-1/4" Rotolock, 1-5/8" ODF)	8153006	
Rotolock valve, V03 (2-1/4" Rotolock, 1-5/8" ODF)	8168026	
Gasket, 2-1/4"	8156133	Gaskets, sleeves and nuts
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004	
Angle adapter, C02 (1-3/4" Rotolock, 1-1/8" ODF)	8168005	
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028	
Gasket, 1-3/4"	8156132	
		1 2 3
Rotolock accessories, sets	Code no.	
Valve set, V03 (2-1/4"~1-5/8"), V02 (1-3/4"~1-1/8")	7703383	1: Gasket
Gasket set, 1-1/4", 1-3/4", 2-1/4", OSG gaskets black & white	8156013	2: Solder sleeve
		3: Rotolock nut
Oil / lubricants	Code no.	
PVE lubricant, 320HV (FVC68D), 1 litre can	120Z5034	
Crankcase heaters	Code no.	
Belt type crankcase heater, 70 W, 240 V, CE mark, UL	120Z5040	
Miscellaneous accessories	Code no.	
Acoustic hood	120Z5043	
Discharge thermostat kit	7750009	
IP54 upgrade kit	118U0056	
Spare parts	Code no.	
Mounting kit for 1 scroll compressor including 4 grommets, 4 sleeves, 4 bolts, 4 washers	120Z5005	
Terminal box cover	120Z5015	

Danfoss

R22

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

Cond. temp. in				Evapora	ting temperature i	n °C (to)		
°C (tc)	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

	· /								
16	3 097	3 710	4 422	5 254	-	-	-	-	-
20	2 951	3 559	4 260	5 077	6 033	-	-	-	-
30	2 618	3 207	3 876	4 651	5 553	6 603	7 820	-	-
40	2 311	2 872	3 502	4 226	5 067	6 047	7 184	-	-
50	-	2 528	3 111	3 776	4 548	5 449	6 501	-	-
60	-	-	-	3 278	3 972	4 787	5 745	-	-
68	-	-	-	-	-	4 194	5 071	-	-

Power input in W

16	990	985	980	979	-	-	-	-	-
20	1 014	1 017	1 019	1 023	1 031	-	-	-	-
30	1 145	1 163	1 178	1 191	1 204	1 220	1 240	-	-
40	1 381	1 409	1 430	1 446	1 458	1 470	1 482	-	-
50	-	1 759	1 780	1 792	1 799	1 800	1 799	-	-
60	-	-	-	2 238	2 231	2 217	2 197	-	-
68	-	-	-	-	-	2 616	2 576	-	-

Current consumption in A

16	5.29	5.27	5.24	5.23	-	-	-	-	-
20	5.42	5.44	5.45	5.47	5.51	-	-	-	-
30	6.12	6.22	6.30	6.37	6.44	6.52	6.63	-	-
40	7.38	7.53	7.65	7.73	7.80	7.86	7.93	-	-
50	-	9.41	9.52	9.59	9.62	9.63	9.62	-	-
60	-	-	-	11.97	11.93	11.86	11.75	-	-
68	-	-	-	-	-	13 99	13 78	-	-

Mass flow in kg/h

16	59	70	83	98	-	-	-	-	-
20	59	70	82	97	114	-	-	-	-
30	57	68	81	96	113	133	156	-	-
40	54	66	79	94	112	132	154	-	-
50	-	62	76	92	109	129	152	-	-
60	-	-	-	87	105	126	149	-	-
68	-	-	-	-	-	122	145	-	-

Coefficient of performance (C.O.P.)

16	3.13	3.77	4.51	5.37	-	-	-	-	-
20	2.91	3.50	4.18	4.96	5.85	-	-	-	-
30	2.29	2.76	3.29	3.91	4.61	5.41	6.31	-	-
40	1.67	2.04	2.45	2.92	3.47	4.11	4.85	-	-
50	-	1.44	1.75	2.11	2.53	3.03	3.61	-	-
60	-	-	-	1.46	1.78	2.16	2.62	-	-
68	-	-	-	-	-	1.60	1.97	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 310	W
Power input	1 592	W
Current consumption	8.51	A
Mass flow	78	kg/h
C.O.P.	2.08	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

oculia ponel auta		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

Danfoss

R22

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

			Evaporat	ting temperature i	n °C (to)		
-20	-15	-10	-5	0	5	10	

Cooling capacity in W

Cond. temp. in °C (tc)

eeeing eapaei	. <u>.</u>								
16	3 022	3 631	4 341	5 176	-	-	-	-	-
20	2 887	3 490	4 190	5 010	5 974	-	-	-	-
30	2 580	3 165	3 832	4 607	5 514	6 577	7 820	-	-
40	-	2 855	3 483	4 205	5 047	6 032	7 184	-	-
50	-	-	-	3 779	4 547	5 447	6 501	-	-
60	-	-	-	-	3 991	4 797	5 745	-	-
68	-	-	-	-	-	-	5 071	-	-

Power input in W

16	990	985	980	979	-	-	-	-	-
20	1 014	1 017	1 019	1 023	1 031	-	-	-	-
30	1 145	1 163	1 178	1 191	1 204	1 220	1 240	-	-
40	-	1 409	1 430	1 446	1 458	1 470	1 482	-	-
50	-	-	-	1 792	1 799	1 800	1 799	-	-
60	-	-	-	-	2 231	2 217	2 197	-	-
68	-	-	-	-	-	-	2 576	-	-

Current consumption in A

16	5.29	5.27	5.24	5.23	-	-	-	-	-
20	5.42	5.44	5.45	5.47	5.51	-	-	-	-
30	6.12	6.22	6.30	6.37	6.44	6.52	6.63	-	-
40	-	7.53	7.65	7.73	7.80	7.86	7.93	-	-
50	-	-	-	9.59	9.62	9.63	9.62	-	-
60	-	-	-	-	11.93	11.86	11.75	-	-
68	-	-	-	-	-	_	13.78	-	-

Mass flow in kg/h

16	52	63	76	91	-	-	-	-	-
20	52	63	75	91	109	-	-	-	-
30	50	61	74	90	108	130	156	-	-
40	-	59	73	88	107	128	154	-	-
50	-	-	-	86	104	126	152	-	-
60	-	-	-	-	101	123	149	-	-
68	-	-	-	-	-	-	145	-	-

Coefficient of performance (C.O.P.)

16	3.05	3.69	4.43	5.29	-	-	-	-	-
20	2.85	3.43	4.11	4.90	5.80	-	-	-	-
30	2.25	2.72	3.25	3.87	4.58	5.39	6.31	-	-
40	-	2.03	2.44	2.91	3.46	4.10	4.85	-	-
50	-	-	-	2.11	2.53	3.03	3.61	-	-
60	-	-	-	-	1.79	2.16	2.62	-	-
68	-	-	-	-	-	-	1.97	-	-

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 304	W	
Power input	1 592	W	
Current consumption	8.51	А	
Mass flow	71	kg/h	
C.O.P.	2.08		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.8	bar(g)
Minimum LP switch setting	0.5	bar(g)
LP pump down setting	0.95	bar(g)

Sound power data

oound poner data		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

Danfoss

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R134a

ond. temp. in				Evapor	ating temperatu				
°C (tc)	-15	-10	-5	0	5	10	15		
ooling capacity									
22	2 043	2 596	3 217	3 914	4 693	-	-	-	-
30	1 864	2 397	3 001	3 685	4 456	5 321	-	-	-
40	1 640	2 127	2 691	3 340	4 080	4 920	5 868	-	-
50	-	1 851	2 353	2 945	3 634	4 428	5 334	-	-
60	-	-	2 005	2 519	3 135	3 861	4 704	-	-
70	-	-	-	2 078	2 600	3 237	3 995	-	-
73	-	-	-	1 946	2 435	3 041	3 770	-	-
wor input in M	,								
ower input in W 22	700	706	719	737	762	-	-	-	-
30	796	804	817	835	857	882	-	-	-
40	948	959	973	990	1 009	1 029	1 051	-	-
	-							-	-
50		1 157	1 173	1 189	1 206	1 221	1 236		
60	-	-	1 425	1 441	1 455	1 467	1 476	-	-
70 73		-	-	1 753	1 765	1 773	1 777		-
73	-	-	-	1 859	1 872	1 879	1 880	-	-
urrent consum	otion in A								
22	3.75	3.78	3.84	3.94	4.07	-	-	-	-
30	4.26	4.30	4.37	4.47	4.58	4.72			_
40	5.07	5.13	5.21	5.29	5.39	5.50	5.62	-	-
50	-			6.36				-	-
50 60	-	6.19	6.27 7.62	7.71	6.45 7.78	6.53 7.84	6.61 7.89	-	-
	-							-	
70		-	-	9.37	9.44	9.48	9.50		-
73	-	-	-	9.94	10.01	10.05	10.05	-	-
ass flow in kg/l									
22	44	55	67	80	94	-	-	_	-
30	43	54	67	80	95	111	-		-
40	43	53	66	80	96	113	132		_
	-							-	-
50 60	-	- 52	64	78 76	95 92	113	133 132	-	
			62			111			-
70 73	-	-	-	73 72	89 88	108	129 128	-	-
13	-	-	-	12	00	106	120	-	-
pefficient of pe	rformance (C.C) P)							
22	2.92	3.68	4.48	5.31	6.16	-	-	-	-
30	2.32	2.98	3.67	4.41	5.20	6.03	-	-	-
40	1.73	2.30	2.76	3.37	4.04	4.78	5.58	-	_
50	-	1.60	2.01	2.48	3.01	3.62	4.31		-
60	-	-	1.41	1.75	2.15	2.63	3.19	-	-
70	-	-	-	1.19	1.47	1.82	2.25	-	-
70	-	-	-	1.19	1.47	1.62	2.25	-	-
15	-		I -	1.03	1.30	1.02	2.01	-	-
ominal perform	ance at to = -1	0 °C, tc = 45 °C				Pressure switch	settinas		
ooling capacity		1 989	W			Maximum HP swi	-	23.6	bar(g)
ower input		1 052	Ŵ			Minimum LP swite	•	0.45	bar(g)
urrent consumpt	tion	5.63	A			LP pump down se	-	0.85	bar(g)
ass flow		53	kg/h			▶ <u> </u>	ž		
.O.P.		1.89				Sound power da	ta		
						Sound power leve		67	dB(A)
Evaporating te	mperature at de	ew point				With accoustic ho		59	dB(A)
	mperature at de	w point							

Danfoss

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance	data at 50) Hz, EN 129	00 rating co	nditions, Su	ction temp	o. = 20 °C			R134a
Cond. temp. in				Evapora	ting temperatu	re in °C (to)			
°C (tc)	-15	-10	-5	0	5	10	15		
ooling capacity i		0.000	0.040	0.004	4 704				
22	2 075	2 626	3 242	3 931	4 701	-	-	-	-
30 40	-	2 441	3 040	3 713	4 471	5 321		-	-
40 50	-	-	2 747 2 425	3 383 3 002	4 104 3 667	4 920 4 428	5 840 5 291	-	-
60	-	-		2 589	3 177	3 861	-	-	-
70	-	-	-	-	2 650	3 237	-	-	-
73	-	-	-	-	2 488	3 041	-	-	-
10					2 100	0011			
ower input in W		1		1			1		
22	700	706	719	737	762	-	-	-	-
30	-	804	817	835	857	882	-	-	-
40	-	-	973	990	1 009	1 029	1 051	-	-
50	-	-	1 173	1 189	1 206	1 221	1 236	-	-
60	-	-	-	1 441	1 455	1 467	-	-	-
70	-	-	-	-	1 765	1 773	-	-	-
73	-	-	-	-	1 872	1 879	-	-	-
urrent consump	tion in A								
22	3.75	3.78	3.84	3.94	4.07	-	-	-	-
30	-	4.30	4.37	4.47	4.58	4.72	-	-	-
40	-	-	5.21	5.29	5.39	5.50	5.62	-	-
50	-	-	6.27	6.36	6.45	6.53	6.61	-	-
60	-	-	-	7.71	7.78	7.84	-	-	-
70	-	-	-	-	9.44	9.48	-	-	-
73	-	-	-	-	10.01	10.05	-	-	-
lass flow in kg/h 22	39	50	63	76	92	-	-	-	-
30	-	50	63	77	93	111		-	-
40	-	-	62	76	93	113	136	-	
50	-	-	60	75	92	113	136	_	
60	-	-	-	73	90	111	-		-
70	-	-	-	-	87	108	-	-	-
73	-	-	-	_	86	106	-	-	-
-							11		
oefficient of perf	•	-	1		1		1		[
22	2.96	3.72	4.51	5.33	6.17	-	-	-	-
30	-	3.03	3.72	4.45	5.22	6.03	-	-	-
40	-	-	2.82	3.42	4.07	4.78	5.56	-	-
50	-	-	2.07	2.52	3.04	3.62	4.28	-	-
60	-	-	-	1.80	2.18	2.63	-	-	-
70	-	-	-	-	1.50	1.82	-	-	-
73	-	-	-	-	1.33	1.62	-	-	-
ominal performa	ance at to = -10	0 °C, tc = 45 °C				Pressure switch	settings		
ooling capacity		-	W			Maximum HP swit	•	23.6	bar(g)
ower input		-	w			Minimum LP swite	-	0.45	bar(g)
urrent consumption	UI	-	A kg/h			LP pump down se	ung	0.85	bar(g)
.O.P.		-	Ng/11			Sound power dat	a		
						Sound power leve		67	dB(A)
: Evaporating ten	nperature at de	w point				With accoustic ho	od	59	dB(A)

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Sound power level	67
With accoustic hood	59
Tolerance according EN12900	

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R404A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

Cond. temp. in	nd. temp. in Evaporating temperature in °C (to)								
°C (tc)	-30								10

Cooling capacity in W

<u> </u>									
10	2 391	2 960	3 644	4 452	5 390	-	-	-	-
20	2 170	2 687	3 305	4 033	4 877	5 846	6 946	-	-
30	1 925	2 387	2 938	3 583	4 332	5 190	6 167	7 268	8 500
40	-	2 059	2 539	3 100	3 750	4 497	5 348	6 310	7 390
50	-	-	2 106	2 581	3 131	3 764	4 487	5 307	6 233
60	-	-	-	-	2 471	2 988	3 581	4 259	5 029

Power input in W

10	799	802	824	850	866	-	-	-	-
20	939	931	947	972	992	994	962	-	-
30	1 212	1 194	1 205	1 230	1 256	1 268	1 252	1 195	1 080
40	-	1 536	1 543	1 569	1 602	1 626	1 627	1 592	1 506
50	-	-	1 906	1 934	1 974	2 011	2 031	2 019	1 962
60	-	-	-	-	2 319	2 370	2 409	2 422	2 394

Current consumption in A

10	4.27	4.29	4.41	4.55	4.63	-	-	-	-
20	5.02	4.98	5.06	5.20	5.31	5.31	5.14	-	-
30	6.48	6.39	6.44	6.58	6.72	6.78	6.70	6.39	5.78
40	-	8.22	8.25	8.39	8.56	8.69	8.70	8.51	8.05
50	-	-	10.19	10.34	10.56	10.76	10.86	10.80	10.49
60	-	-	-	-	12.40	12.67	12.88	12.95	12.80

Mass flow in kg/h

10	42	57	73	91	112	-	-	-	-
20	44	58	73	91	110	133	159	-	-
30	45	58	72	89	108	131	157	187	222
40	-	56	70	86	106	128	154	185	220
50	-	-	67	83	102	124	151	182	218
60	-	-	-	-	97	120	147	178	215

Coefficient of performance (C.O.P.)

10	2.99	3.69	4.42	5.24	6.23	-	-	-	-
20	2.31	2.89	3.49	4.15	4.92	5.88	7.22	-	-
30	1.59	2.00	2.44	2.91	3.45	4.09	4.92	6.08	7.87
40	-	1.34	1.65	1.98	2.34	2.77	3.29	3.96	4.91
50	-	-	1.11	1.33	1.59	1.87	2.21	2.63	3.18
60	-	-	-	-	1.07	1.26	1.49	1.76	2.10

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 446	W	
Power input	1 788	W	
Current consumption	9.56	А	
Mass flow	104	kg/h	
C.O.P.	1.93		

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound nowor data

Sound power data		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)
		• •

Tolerance according EN12900

Danfoss

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in		Evaporating temperature in °C (to)								
°C (tc)	-30	-30 -25 -20 -15 -10 -5 0 5 10								

Cooling capacity in W

10	2 297	2 864	3 551	4 366	5 318	-	-	-	-
20	2 041	2 551	3 169	3 902	4 760	5 750	6 880	-	-
30	1 761	2 213	2 759	3 407	4 169	5 052	6 064	7 213	8 500
40	1 456	1 847	2 319	2 880	3 543	4 316	5 209	6 232	7 390
50	-	-	1 848	2 319	2 879	3 539	4 311	5 205	6 233
60	-	-	-	-	2 174	2 718	3 365	4 130	5 029

Power input in W

10	799	802	824	850	866	-	-	-	-
20	939	931	947	972	992	994	962	-	-
30	1 212	1 194	1 205	1 230	1 256	1 268	1 252	1 195	1 080
40	1 564	1 536	1 543	1 569	1 602	1 626	1 627	1 592	1 506
50	-	-	1 906	1 934	1 974	2 011	2 031	2 019	1 962
60	-	-	-	-	2 319	2 370	2 409	2 422	2 394

Current consumption in A

10	4.27	4.29	4.41	4.55	4.63	-	-	-	-
20	5.02	4.98	5.06	5.20	5.31	5.31	5.14	-	-
30	6.48	6.39	6.44	6.58	6.72	6.78	6.70	6.39	5.78
40	8.37	8.22	8.25	8.39	8.56	8.69	8.70	8.51	8.05
50	-	-	10.19	10.34	10.56	10.76	10.86	10.80	10.49
60	-	-	-	-	12.40	12.67	12.88	12.95	12.80

Mass flow in kg/h

10	50	67	84	103	123	-	-	-	-
20	53	68	84	102	122	144	168	-	-
30	54	68	83	100	120	142	166	193	222
40	53	66	81	97	116	138	163	190	220
50	-	-	77	93	112	134	159	187	218
60	-	-	-	-	108	130	155	184	215

Coefficient of performance (C.O.P.)

10	2.88	3.57	4.31	5.14	6.14	-	-	-	-
20	2.17	2.74	3.35	4.01	4.80	5.79	7.15	-	-
30	1.45	1.85	2.29	2.77	3.32	3.98	4.84	6.04	7.87
40	0.93	1.20	1.50	1.84	2.21	2.65	3.20	3.91	4.91
50	-	-	0.97	1.20	1.46	1.76	2.12	2.58	3.18
60	-	-	-	-	0.94	1.15	1.40	1.71	2.10

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 216	W
Power input	1 788	W
Current consumption	9.56	А
Mass flow	115	kg/h
C.O.P.	1.80	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

Tolerance according EN12900

Danfoss

R407A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		Evaporating temperature in °C (to)										
°C (tc)	-25	-20	-15	-10	-5	0	5	10				
Cooling capacit	y in W											
10	2 481	3 103	3 854	4 749	-	-	-	-	-			
20	2 215	2 805	3 515	4 363	5 364	6 535	-	-	-			
30	1 915	2 458	3 114	3 900	4 833	5 927	7 200	8 667	-			
40	1 594	2 076	2 664	3 375	4 224	5 228	6 403	7 765	-			
45	-	1 876	2 425	3 092	3 895	4 848	5 969	7 274	-			
50	-	-	2 179	2 799	3 551	4 451	5 514	6 757	-			
55	-	-	-	2 498	3 196	4 038	5 040	6 218	-			
60	-	-	-	-	2 830	3 610	4 547	5 657	-			

Power input in W

10	751	760	761	751	-	-	-	-	-
20	903	920	933	938	932	914	-	-	-
30	1 095	1 116	1 136	1 152	1 162	1 161	1 148	1 119	-
40	1 354	1 375	1 398	1 421	1 440	1 454	1 458	1 450	-
45	-	1 535	1 558	1 583	1 606	1 625	1 637	1 638	-
50	-	-	1 744	1 769	1 795	1 818	1 836	1 845	-
55	-	-	-	1 981	2 009	2 035	2 058	2 074	-
60	-	-	-	-	2 251	2 280	2 307	2 329	-

Current consumption in A

10	3.92	4.01	4.08	4.12	-	-	-	-	-
20	5.14	5.24	5.31	5.35	5.38	5.40	-	-	-
30	5.84	5.94	6.02	6.06	6.09	6.11	6.14	6.17	-
40	6.46	6.56	6.63	6.68	6.71	6.73	6.75	6.78	-
45	-	6.98	7.05	7.09	7.12	7.14	7.16	7.19	-
50	-	-	7.60	7.64	7.67	7.68	7.70	7.73	-
55	-	-	-	8.39	8.41	8.42	8.43	8.46	-
60	-	-	-	-	9.40	9.40	9.41	9.43	-

Mass flow in kg/h

10	48	60	73	89	-	-	-	-	-
20	47	59	72	88	107	128	-	-	-
30	45	56	70	86	105	127	152	180	-
40	42	53	66	83	101	123	149	178	-
45	-	51	64	80	99	121	147	176	-
50	-	-	62	77	96	118	144	173	-
55	-	-	-	74	93	115	140	170	-
60	-	-	-	-	89	111	136	166	-

Coefficient of performance (C.O.P.)

10	3.30	4.08	5.07	6.33	-	-	-	-	-
20	2.45	3.05	3.77	4.65	5.75	7.15	-	-	-
30	1.75	2.20	2.74	3.38	4.16	5.10	6.27	7.75	-
40	1.18	1.51	1.91	2.38	2.93	3.60	4.39	5.35	-
45	-	1.22	1.56	1.95	2.42	2.98	3.65	4.44	-
50	-	-	1.25	1.58	1.98	2.45	3.00	3.66	-
55	-	-	-	1.26	1.59	1.98	2.45	3.00	-
60	-	-	-	-	1.26	1.58	1.97	2.43	-

Nominal performance at to = -10 °C, tc = 45 °C										
Cooling capacity	3 092	W								
Power input	1 583	W								
Current consumption	7.09	A								
Mass flow	80	kg/h								
C.O.P.	1.95									

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)
-		
Sound power data		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss

R407A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in				Evaporat	ting temperature in	n °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

10	2 635	3 293	4 085	5 030	-	-	-	-	-
20	2 370	2 997	3 753	4 653	5 714	6 955	-	-	-
30	2 068	2 650	3 354	4 195	5 192	6 360	7 717	9 279	-
40	1 743	2 266	2 903	3 671	4 588	5 670	6 935	8 399	-
45	-	2 064	2 662	3 388	4 260	5 294	6 508	7 918	-
50	-	-	2 413	3 094	3 917	4 900	6 059	7 412	-
55	-	-	-	2 791	3 562	4 490	5 593	6 886	-
60	-	-	-	-	-	4 067	5 110	6 342	-

Power input in W

10	751	760	761	751	-	-	-	-	-
20	903	920	933	938	932	914	-	-	-
30	1 095	1 116	1 136	1 152	1 162	1 161	1 148	1 119	-
40	1 354	1 375	1 398	1 421	1 440	1 454	1 458	1 450	-
45	-	1 535	1 558	1 583	1 606	1 625	1 637	1 638	-
50	-	-	1 744	1 769	1 795	1 818	1 836	1 845	-
55	-	-	-	1 981	2 009	2 035	2 058	2 074	-
60	-	-	-	-	-	2 280	2 307	2 329	-

Current consumption in A

10	3.92	4.01	4.08	4.12	-	-	-	-	-
20	5.14	5.24	5.31	5.35	5.38	5.40	-	-	-
30	5.84	5.94	6.02	6.06	6.09	6.11	6.14	6.17	-
40	6.46	6.56	6.63	6.68	6.71	6.73	6.75	6.78	-
45	-	6.98	7.05	7.09	7.12	7.14	7.16	7.19	-
50	-	-	7.60	7.64	7.67	7.68	7.70	7.73	-
55	-	-	-	8.39	8.41	8.42	8.43	8.46	-
60	-	-	-	-	-	9.40	9.41	9.43	-

Mass flow in kg/h

10	48	59	73	88	-	-	-	-	-
20	47	58	72	88	106	127	-	-	-
30	45	56	70	86	104	126	151	179	-
40	41	53	66	82	101	123	148	177	-
45	-	50	64	80	99	120	146	175	-
50	-	-	61	77	96	118	143	172	-
55	-	-	-	74	92	114	140	169	-
60	-	-	-	-	-	110	136	165	-

Coefficient of performance (C.O.P.)

10	3.51	4.33	5.37	6.70	-	-	-	-	-
20	2.62	3.26	4.02	4.96	6.13	7.61	-	-	-
30	1.89	2.37	2.95	3.64	4.47	5.48	6.72	8.29	-
40	1.29	1.65	2.08	2.58	3.19	3.90	4.76	5.79	-
45	-	1.34	1.71	2.14	2.65	3.26	3.98	4.83	-
50	-	-	1.38	1.75	2.18	2.70	3.30	4.02	-
55	-	-	-	1.41	1.77	2.21	2.72	3.32	-
60	-	-	-	-	-	1.78	2.22	2.72	-

Nominal performance at to = -10 °C	C, tc = 45 °C	
Cooling capacity	3 388	W
Power input	1 583	W
Current consumption	7.09	А
Mass flow	80	kg/h
C.O.P.	2.14	

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)
-		
Sound power data		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

tc: Condensing temperature at dew point Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

to: Evaporating temperature at dew point

Tolerance according EN12900

Danfoss

R407F

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in	Evaporating temperature in °C (to)								
°C (tc)	-23	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

10	2 905	3 316	4 106	5 044	-	-	-	-	-
20	2 620	3 011	3 764	4 657	5 708	6 933	-	-	-
30	2 292	2 654	3 354	4 188	5 172	6 325	7 662	9 202	-
40	1 935	2 260	2 890	3 649	4 552	5 616	6 859	8 298	-
45	-	-	2 643	3 357	4 214	5 228	6 419	7 801	-
50	-	-	-	3 054	3 860	4 821	5 954	7 276	-
55	-	-	-	-	3 491	4 395	5 467	6 725	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	803	805	807	807	-	-	-	-	-
20	974	979	986	990	993	994	-	-	-
30	1 185	1 196	1 211	1 221	1 227	1 232	1 235	1 239	-
40	1 457	1 474	1 498	1 516	1 530	1 540	1 547	1 553	-
45	-	-	1 672	1 695	1 713	1 726	1 736	1 744	-
50	-	-	-	1 897	1 920	1 937	1 950	1 961	-
55	-	-	-	-	2 153	2 175	2 192	2 206	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	4.21	4.26	4.32	4.34	-	-	-	-	-
20	5.54	5.60	5.67	5.70	5.72	5.72	-	-	-
30	6.32	6.37	6.44	6.48	6.50	6.51	6.52	6.55	-
40	7.00	7.06	7.12	7.15	7.17	7.18	7.20	7.23	-
45	-	-	7.57	7.60	7.62	7.63	7.64	7.67	-
50	-	-	-	8.20	8.21	8.22	8.23	8.25	-
55	-	-	-	-	9.02	9.02	9.03	9.05	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	51	58	70	85	-	-	-	-	-
20	49	56	69	85	103	123	-	-	-
30	47	54	67	83	101	122	146	173	-
40	44	51	64	79	97	118	143	171	-
45	-	-	61	77	95	116	141	168	-
50	-	-	-	74	92	113	138	166	-
55	-	-	-	-	89	110	134	162	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.62	4.12	5.09	6.25	-	-	-	-	-
20	2.69	3.07	3.82	4.70	5.75	6.97	-	-	-
30	1.93	2.22	2.77	3.43	4.21	5.13	6.20	7.43	-
40	1.33	1.53	1.93	2.41	2.97	3.65	4.43	5.34	-
45	-	-	1.58	1.98	2.46	3.03	3.70	4.47	-
50	-	-	-	1.61	2.01	2.49	3.05	3.71	-
55	-	-	-	-	1.62	2.02	2.49	3.05	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -1	Nominal performance at to = -10 °C, tc = 45 °C								
Cooling capacity	3 357	W							
Power input	1 695	W							
Current consumption	7.60	А							
Mass flow	77	kg/h							
C.O.P.	1.98								

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)
Cound a outer data		
Sound power data		
Sound power level	67	dB(A)
With accoustic hood	59	dB(A)

to: Evaporating temperature at dew point tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

Danfoss

R407F

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, ARI rating conditions

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-23	-20	-15	-10	-5	0	5	10	

Cooling capacity in W

10	3 070	3 503	4 335	5 320	-	-	-	-	-
20	2 785	3 200	3 997	4 941	6 051	7 344	-	-	-
30	2 455	2 842	3 587	4 475	5 522	6 746	8 166	9 799	-
40	-	2 443	3 121	3 935	4 904	6 044	7 374	8 913	-
45	-	-	2 871	3 643	4 566	5 659	6 939	8 424	-
50	-	-	-	3 338	4 212	5 253	6 480	7 909	-
55	-	-	-	-	-	4 831	6 000	7 371	-
60	-	-	-	-	-	-	-	-	-

Power input in W

10	803	805	807	807	-	-	-	-	-
20	974	979	986	990	993	994	-	-	-
30	1 185	1 196	1 211	1 221	1 227	1 232	1 235	1 239	-
40	-	1 474	1 498	1 516	1 530	1 540	1 547	1 553	-
45	-	-	1 672	1 695	1 713	1 726	1 736	1 744	-
50	-	-	-	1 897	1 920	1 937	1 950	1 961	-
55	-	-	-	-	-	2 175	2 192	2 206	-
60	-	-	-	-	-	-	-	-	-

Current consumption in A

10	4.21	4.26	4.32	4.34	-	-	-	-	-
20	5.54	5.60	5.67	5.70	5.72	5.72	-	-	-
30	6.32	6.37	6.44	6.48	6.50	6.51	6.52	6.55	-
40	-	7.06	7.12	7.15	7.17	7.18	7.20	7.23	-
45	-	-	7.57	7.60	7.62	7.63	7.64	7.67	-
50	-	-	-	8.20	8.21	8.22	8.23	8.25	-
55	-	-	-	-	-	9.02	9.03	9.05	-
60	-	-	-	-	-	-	-	-	-

Mass flow in kg/h

10	50	57	70	85	-	-	-	-	-
20	49	56	69	84	102	122	-	-	-
30	47	54	67	82	100	121	145	172	-
40	-	50	63	79	97	118	142	170	-
45	-	-	61	76	94	115	140	167	-
50	-	-	-	74	92	113	137	165	-
55	-	-	-	-	-	109	133	161	-
60	-	-	-	-	-	-	-	-	-

Coefficient of performance (C.O.P.)

10	3.82	4.35	5.37	6.59	-	-	-	-	-
20	2.86	3.27	4.05	4.99	6.09	7.38	-	-	-
30	2.07	2.38	2.96	3.67	4.50	5.48	6.61	7.91	-
40	-	1.66	2.08	2.60	3.21	3.93	4.77	5.74	-
45	-	-	1.72	2.15	2.67	3.28	4.00	4.83	-
50	-	-	-	1.76	2.19	2.71	3.32	4.03	-
55	-	-	-	-	-	2.22	2.74	3.34	-
60	-	-	-	-	-	-	-	-	-

Nominal performance at to = -10 °C, tc = 45 °C							
Cooling capacity	3 643	W					
Power input	1 695	W					
Current consumption	7.60	A					
Mass flow	76	kg/h					
C.O.P.	2.15						

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

Pressure switch settings Maximum HP switch setting

Minimum LP switch setting

LP pump down setting

Sound power data

Sound power level

With accoustic hood

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29.7

1.4

2

67

59

bar(g)

bar(g)

bar(g)

dB(A)

dB(A)

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R448A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	1 929	2 450	3 075	3 822	4 705	-	-	-	-
20	1 722	2 220	2 810	3 509	4 332	5 293	6 408	-	-
30	-	-	2 521	3 163	3 916	4 796	5 817	6 995	8 345
40	-	-	-	2 793	3 468	4 257	5 175	6 238	7 460
50	-	-	-	-	2 995	3 685	4 492	5 430	6 515
60	-	-	-	-	-	-	3 775	4 580	5 519

Power input in W

10	767	786	798	806	813	-	-	-	-
20	915	942	962	976	989	1 001	1 016	-	-
30	-	-	1 156	1 176	1 192	1 208	1 226	1 248	1 277
40	-	-	-	1 440	1 459	1 477	1 496	1 519	1 548
50	-	-	-	-	1 824	1 843	1 861	1 883	1 910
60	-	-	-	-	-	-	2 356	2 375	2 398

Current consumption in A

10	3.93	4.02	4.09	4.13	4.15	-	-	-	-
20	4.53	4.63	4.71	4.78	4.83	4.88	4.93	-	-
30	-	-	5.52	5.60	5.67	5.74	5.82	5.90	5.99
40	-	-	-	6.73	6.81	6.89	6.98	7.09	7.21
50	-	-	-	-	8.41	8.48	8.58	8.69	8.83
60	-	-	-	-	-	-	10.75	10.85	10.99

Mass flow in kg/h

10	31	40	51	63	78	-	-	-	-
20	30	39	50	62	77	95	116	-	-
30	-	-	48	61	76	93	114	139	168
40	-	-	-	59	73	91	112	136	165
50	-	-	-	-	70	88	108	133	161
60	-	-	-	-	-	-	104	128	156

Coefficient of performance (C.O.P.)

10	2.51	3.12	3.85	4.74	5.79	-	-	-	-
20	1.88	2.36	2.92	3.59	4.38	5.29	6.31	-	-
30	-	-	2.18	2.69	3.28	3.97	4.74	5.60	6.54
40	-	-	-	1.94	2.38	2.88	3.46	4.11	4.82
50	-	-	-	-	1.64	2.00	2.41	2.88	3.41
60	-	-	-	-	-	-	1.60	1.93	2.30

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 234	W
Power input	1 627	W
Current consumption	7.54	Α
Mass flow	72	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound	power level	dB(A)
With ac	ccoustic hood	dB(A)

Tolerance according EN12900

Danfoss

R448A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	1 937	2 462	3 093	3 846	4 736	-	-	-	-
20	1 707	2 206	2 799	3 502	4 331	5 299	6 420	-	-
30	1 472	1 935	2 481	3 125	3 884	4 772	5 803	6 991	8 345
40	-	-	2 148	2 724	3 404	4 203	5 136	6 217	7 460
50	-	-	-	2 308	2 901	3 601	4 426	5 393	6 515
60	-	-	-	-	2 381	2 974	3 683	4 526	5 519

Power input in W

10	767	786	798	806	813	-	-	-	-
20	915	942	962	976	989	1 001	1 016	-	-
30	1 098	1 131	1 156	1 176	1 192	1 208	1 226	1 248	1 277
40	-	-	1 417	1 440	1 459	1 477	1 496	1 519	1 548
50	-	-	-	1 804	1 824	1 843	1 861	1 883	1 910
60	-	-	-	-	2 322	2 339	2 356	2 375	2 398

Current consumption in A

10	3.93	4.02	4.09	4.13	4.15	-	-	-	-
20	4.53	4.63	4.71	4.78	4.83	4.88	4.93	-	-
30	5.33	5.43	5.52	5.60	5.67	5.74	5.82	5.90	5.99
40	-	-	6.66	6.73	6.81	6.89	6.98	7.09	7.21
50	-	-	-	8.34	8.41	8.48	8.58	8.69	8.83
60	-	-	-	-	10.61	10.67	10.75	10.85	10.99

Mass flow in kg/h

10	37	47	58	71	86	-	-	-	-
20	36	45	57	70	85	102	122	-	-
30	34	44	55	68	83	100	120	143	168
40	-	-	53	66	80	98	118	140	165
50	-	-	-	63	77	94	114	136	161
60	-	-	-	-	74	90	110	132	156

Coefficient of performance (C.O.P.)

10	2.53	3.13	3.87	4.77	5.83	-	-	-	-
20	1.87	2.34	2.91	3.59	4.38	5.29	6.32	-	-
30	1.34	1.71	2.15	2.66	3.26	3.95	4.73	5.60	6.54
40	-	-	1.52	1.89	2.33	2.84	3.43	4.09	4.82
50	-	-	-	1.28	1.59	1.95	2.38	2.86	3.41
60	-	-	-	-	1.03	1.27	1.56	1.91	2.30

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 155	W
Power input	1 627	W
Current consumption	7.54	А
Mass flow	79	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)
	- ()

Tolerance according EN12900

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Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

Cond. temp. in				Evapora	ting temperature in	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	1 929	2 450	3 075	3 822	4 705	-	-	-	-
20	1 722	2 220	2 810	3 509	4 332	5 293	6 408	-	-
30	-	-	2 521	3 163	3 916	4 796	5 817	6 995	8 345
40	-	-	-	2 793	3 468	4 257	5 175	6 238	7 460
50	-	-	-	-	2 995	3 685	4 492	5 430	6 515
60	-	-	-	-	-	-	3 775	4 580	5 519

Power input in W

10	767	786	798	806	813	-	-	-	-
20	915	942	962	976	989	1 001	1 016	-	-
30	-	-	1 156	1 176	1 192	1 208	1 226	1 248	1 277
40	-	-	-	1 440	1 459	1 477	1 496	1 519	1 548
50	-	-	-	-	1 824	1 843	1 861	1 883	1 910
60	-	-	-	-	-	-	2 356	2 375	2 398

Current consumption in A

10	3.93	4.02	4.09	4.13	4.15	-	-	-	-
20	4.53	4.63	4.71	4.78	4.83	4.88	4.93	-	-
30	-	-	5.52	5.60	5.67	5.74	5.82	5.90	5.99
40	-	-	-	6.73	6.81	6.89	6.98	7.09	7.21
50	-	-	-	-	8.41	8.48	8.58	8.69	8.83
60	-	-	-	-	-	-	10.75	10.85	10.99

Mass flow in kg/h

10	31	40	51	63	78	-	-	-	-
20	30	39	50	62	77	95	116	-	-
30	-	-	48	61	76	93	114	139	168
40	-	-	-	59	73	91	112	136	165
50	-	-	-	-	70	88	108	133	161
60	-	-	-	-	-	-	104	128	156

Coefficient of performance (C.O.P.)

10	2.51	3.12	3.85	4.74	5.79	-	-	-	-
20	1.88	2.36	2.92	3.59	4.38	5.29	6.31	-	-
30	-	-	2.18	2.69	3.28	3.97	4.74	5.60	6.54
40	-	-	-	1.94	2.38	2.88	3.46	4.11	4.82
50	-	-	-	-	1.64	2.00	2.41	2.88	3.41
60	-	-	-	-	-	-	1.60	1.93	2.30

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 234	W
Power input	1 627	W
Current consumption	7.54	Α
Mass flow	72	kg/h
C.O.P.	1.99	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Ī	Sound power level	dB(A)
	With accoustic hood	dB(A)

Tolerance according EN12900

Danfoss

R449A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	1 933	2 457	3 088	3 841	4 731	-	-	-	-
20	1 703	2 201	2 794	3 497	4 326	5 295	6 417	-	-
30	1 467	1 930	2 475	3 120	3 879	4 767	5 800	6 989	8 345
40	-	-	2 142	2 719	3 399	4 198	5 132	6 215	7 460
50	-	-	-	2 302	2 895	3 596	4 422	5 390	6 515
60	-	-	-	-	2 375	2 969	3 679	4 523	5 519

Power input in W

10	767	786	798	806	813	-	-	-	-
20	915	942	962	976	989	1 001	1 016	-	-
30	1 098	1 131	1 156	1 176	1 192	1 208	1 226	1 248	1 277
40	-	-	1 417	1 440	1 459	1 477	1 496	1 519	1 548
50	-	-	-	1 804	1 824	1 843	1 861	1 883	1 910
60	-	-	-	-	2 322	2 339	2 356	2 375	2 398

Current consumption in A

10	3.93	4.02	4.09	4.13	4.15	-	-	-	-
20	4.53	4.63	4.71	4.78	4.83	4.88	4.93	-	-
30	5.33	5.43	5.52	5.60	5.67	5.74	5.82	5.90	5.99
40	-	-	6.66	6.73	6.81	6.89	6.98	7.09	7.21
50	-	-	-	8.34	8.41	8.48	8.58	8.69	8.83
60	-	-	-	-	10.61	10.67	10.75	10.85	10.99

Mass flow in kg/h

10	37	47	58	71	86	-	-	-	-
20	36	45	57	70	85	102	122	-	-
30	34	44	55	68	83	100	120	143	168
40	-	-	53	66	80	98	118	140	165
50	-	-	-	63	77	94	114	136	161
60	-	-	-	-	74	90	110	132	156

Coefficient of performance (C.O.P.)

10	2.52	3.13	3.87	4.76	5.82	-	-	-	-
20	1.86	2.34	2.91	3.58	4.38	5.29	6.32	-	-
30	1.34	1.71	2.14	2.65	3.25	3.94	4.73	5.60	6.54
40	-	-	1.51	1.89	2.33	2.84	3.43	4.09	4.82
50	-	-	-	1.28	1.59	1.95	2.38	2.86	3.41
60	-	-	-	-	1.02	1.27	1.56	1.90	2.30

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 149	W
Power input	1 627	W
Current consumption	7.54	Α
Mass flow	79	kg/h
C.O.P.	1.94	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)
	- ()

Tolerance according EN12900

Danfoss

R452A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

Cond. temp. in		Evaporating temperature in °C (to)							
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	2 201	2 734	3 380	4 152	5 062	-	-	-	-
20	1 973	2 476	3 080	3 796	4 638	5 618	6 749	-	-
30	-	2 210	2 759	3 407	4 167	5 053	6 076	7 251	8 588
40	-	-	2 420	2 987	3 653	4 431	5 335	6 375	7 566
50	-	-	-	-	3 100	3 758	4 528	5 423	6 455
60	-	-	-	-	-	3 037	3 661	4 397	5 256

Power input in W

10	826	837	844	849	853	-	-	-	-
20	984	1 004	1 017	1 026	1 032	1 036	1 039	-	-
30	-	1 208	1 231	1 247	1 257	1 263	1 266	1 269	1 271
40	-	-	1 502	1 528	1 546	1 557	1 563	1 566	1 566
50	-	-	-	-	1 915	1 935	1 947	1 953	1 954
60	-	-	-	-	-	2 412	2 433	2 446	2 451

Current consumption in A

10	4.08	4.13	4.19	4.25	4.33	-	-	-	-
20	4.74	4.81	4.87	4.93	4.99	5.06	5.14	-	-
30	-	5.68	5.78	5.85	5.91	5.96	6.02	6.08	6.16
40	-	-	6.95	7.06	7.15	7.21	7.26	7.30	7.35
50	-	-	-	-	8.77	8.86	8.92	8.97	9.00
60	-	-	-	-	-	10.97	11.08	11.15	11.19

Mass flow in kg/h

10	44	56	69	85	105	-	-	-	-
20	43	55	69	85	104	127	154	-	-
30	-	54	67	83	103	126	153	185	222
40	-	-	65	81	100	123	150	182	219
50	-	-	-	-	97	120	147	178	215
60	-	-	-	-	-	116	142	173	210

Coefficient of performance (C.O.P.)

10	2.66	3.27	4.00	4.89	5.93	-	-	-	-
20	2.01	2.47	3.03	3.70	4.50	5.42	6.49	-	-
30	-	1.83	2.24	2.73	3.32	4.00	4.80	5.72	6.76
40	-	-	1.61	1.96	2.36	2.85	3.41	4.07	4.83
50	-	-	-	-	1.62	1.94	2.33	2.78	3.30
60	-	-	-	-	-	1.26	1.50	1.80	2.14

Nominal performance at to = -10 °C, tc = 45 °C

	,		
Cooling capacity		3 381	W
Power input		1 719	W
Current consumption		7.91	А
Mass flow		99	kg/h
C.O.P.		1.97	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 $^\circ\text{C}$, Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Ī	Sound power level	dB(A)
	With accoustic hood	dB(A)

Tolerance according EN12900

Danfoss

R452A

Datasheet, performance data

Scroll compressor. MLZ015T5

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-30	-25	-20	-15	-10	-5	0	5	10

Cooling capacity in W

10	2 130	2 661	3 309	4 087	5 009	-	-	-	-
20	1 872	2 370	2 972	3 692	4 545	5 542	6 697	-	-
30	1 620	2 071	2 614	3 263	4 033	4 938	5 992	7 205	8 588
40	1 374	1 767	2 239	2 805	3 480	4 279	5 218	6 309	7 566
50	-	-	1 849	2 319	2 887	3 568	4 379	5 336	6 455
60	-	-	-	-	2 256	2 806	3 476	4 286	5 256

Power input in W

10	826	837	844	849	853	-	-	-	-
20	984	1 004	1 017	1 026	1 032	1 036	1 039	-	-
30	1 176	1 208	1 231	1 247	1 257	1 263	1 266	1 269	1 271
40	1 420	1 466	1 502	1 528	1 546	1 557	1 563	1 566	1 566
50	-	-	1 848	1 886	1 915	1 935	1 947	1 953	1 954
60	-	-	-	-	2 382	2 412	2 433	2 446	2 451

Current consumption in A

10	4.08	4.13	4.19	4.25	4.33	-	-	-	-
20	4.74	4.81	4.87	4.93	4.99	5.06	5.14	-	-
30	5.56	5.68	5.78	5.85	5.91	5.96	6.02	6.08	6.16
40	6.62	6.81	6.95	7.06	7.15	7.21	7.26	7.30	7.35
50	-	-	8.47	8.64	8.77	8.86	8.92	8.97	9.00
60	-	-	-	-	10.83	10.97	11.08	11.15	11.19

Mass flow in kg/h

10	53	65	79	96	115	-	-	-	-
20	51	64	78	95	114	137	163	-	-
30	50	63	77	94	113	135	161	190	222
40	49	61	75	91	110	133	158	187	219
50	-	-	72	88	107	129	154	183	215
60	-	-	-	-	103	125	150	178	210

Coefficient of performance (C.O.P.)

10	2.58	3.18	3.92	4.81	5.87	-	-	-	-
20	1.90	2.36	2.92	3.60	4.41	5.35	6.44	-	-
30	1.38	1.71	2.12	2.62	3.21	3.91	4.73	5.68	6.76
40	0.97	1.20	1.49	1.84	2.25	2.75	3.34	4.03	4.83
50	-	-	1.00	1.23	1.51	1.84	2.25	2.73	3.30
60	-	-	-	-	0.95	1.16	1.43	1.75	2.14

Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	3 188	W
Power input	1 719	W
Current consumption	7.91	А
Mass flow	109	kg/h
C.O.P.	1.85	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Pressure switch settings		
Maximum HP switch setting	29.7	bar(g)
Minimum LP switch setting	1.4	bar(g)
LP pump down setting	2	bar(g)

Sound power data

Sound power level	dB(A)
With accoustic hood	dB(A)

Tolerance according EN12900