

Model

Designation	NL10FT	220-240V/50Hz 1~ 220-240V/60Hz 1~	Sales code:	105G6817
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R134a
Oil viscosity	32cST	Displacement	10,09cm ³ / 0,62cu.in
Oil quantity	298cm ³ / 10,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	400g / 14,1oz		
Free gas volume comp.	2360cm ³ / 79,8fl.oz		
Weight	10,5kg / 23,1lbs		
Motor protection	1# internal		
Winding resistance main	8,2Ω (at 25°C)		
Winding resistance aux	14,7Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with NL10FT

	Conf. 1	Conf. 2
Motorconfiguration	CSIR	RSIR
Power supply (nominal)	220-240V/50Hz	220-240V/50Hz
Number of phases	1	1
Voltage range	187-254V	187-254V
Approvals	CB, VDE	CB, VDE
Starting torque	HST	LST
Note	- / -	

Applications with NL10FT

	Conf. 1	Conf. 2
Refrigerant	R134a	R134a
Application	LBP	LBP
System cooling	static	static
Hot gas defrost	-/-	-/-
Long interval pull down	-/-	-/-

Electrical data - Configurations with NL10FT

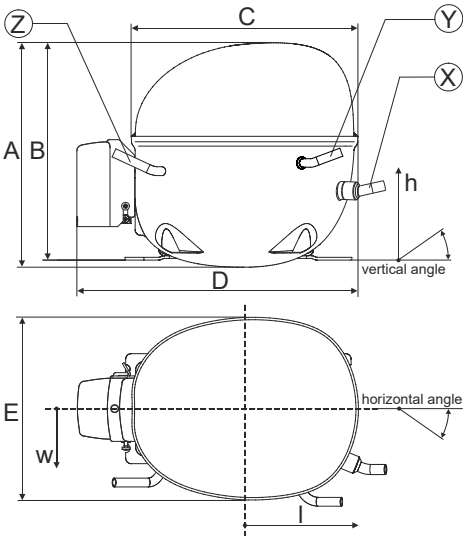
	Conf. 1	Conf. 2
Starting device type	relay	PTC
Run capacitor	-/-	-/-
Start capacitor	80μF	-/-
LRA (locked rotor amps / 4s)	10,4A	9,2A
RLA (rated load amps / 1s)	1,8A	1,8A
Cut in current	10,4A	13,6A

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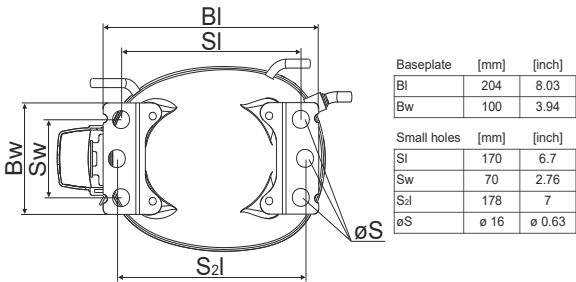
Compressor dimensions

Housing	A Height	203mm / 7,99in
	B Height	197mm / 7,76in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	126/76/78	133/103/54	-107/94/72
[in]	4,9/3/3,1	5,2/4/2,1	-4,2/3,7/2,8
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5

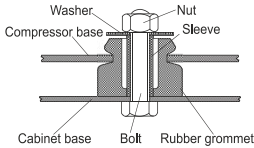


Compressor fixation

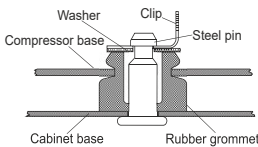


Mounting accessories	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	
Snap-on ø7,3 ø16mm	118-1947	118-1919

Bolt joint



Snap-on

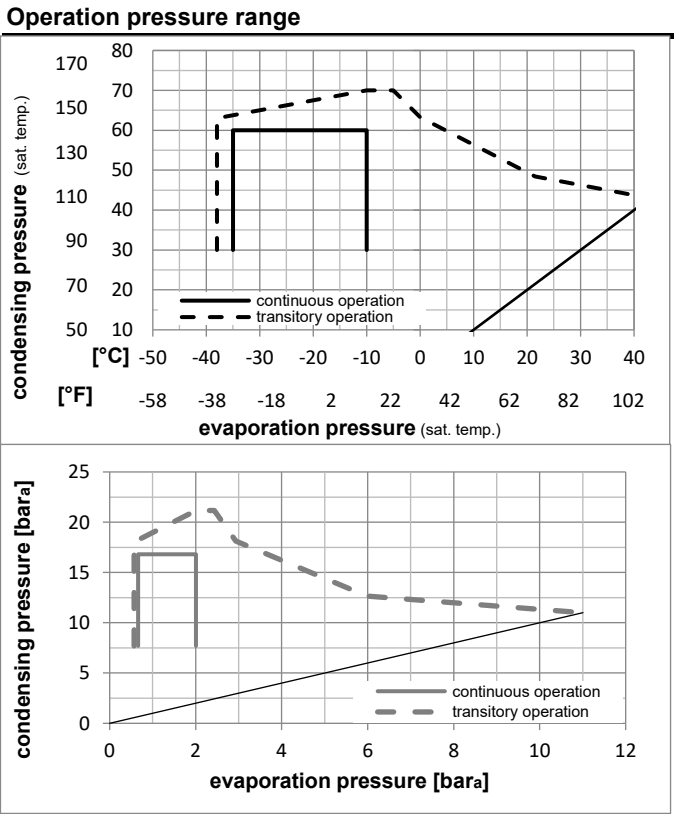


Model				
Designation	NL10FT	220-240V/50Hz	Conf. 1	Sales code: 105G6817

Configuration	Electrical accessories / wiring diagram			
Motorconfiguration	CSIR			
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP			
Voltage range	187-254V			
Starting torque	HST			
Approvals	CB			
	VDE			

Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	fan 1,5m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a



Model

Designation

NL10FT

220-240V/50Hz

Conf. 1

Sales code:

105G6817

Optimization + standard conditions

R134a, 220V/50Hz, CSIR, static, CB, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
					Return gas temp.						Current consumption			
					Liquid temp.						Ref. mass flow			
					Cooling capacity									
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	COP	EER		P1	I	m	
	[°C]	[°F]						[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-23	54	32	32	283,8	969	244,2	1,25	4,27	1,08	227,0	1,54	5,51	ASHRAE LBP
	-10	130	90	90										
	-25	55	32	55	210,3	718	181,0	0,98	3,34	0,84	215,1	1,50	5,03	cecomaf LBP
	-13	131	90	131										
	-35	40	20	40	152,2	520	131,0	0,95	3,26	0,82	159,4	1,36	3,34	EN12900 LBP
	-31	104	68	104										
	-23	49	4,4	49	230,8	788	198,6	1,01	3,46	0,87	227,9	1,55	6,10	ARI540 LBP
	-10	120	40	120										
	-23	41	32	32	313,4	1070	269,7	1,44	4,91	1,24	217,9	1,52	6,08	AHAM LBP
	-10	105	90	90										
	-35	45	32	45	141,9	484	122,1	0,88	3,00	0,76	161,5	1,36	3,06	opt
	-31	113	90	113										

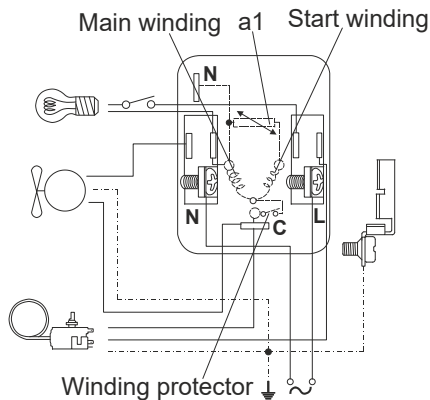
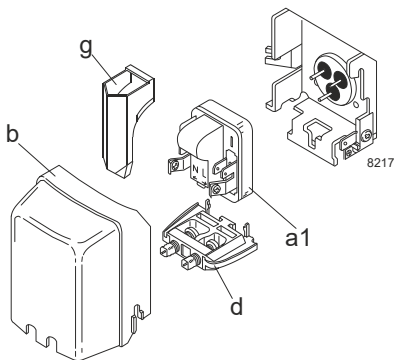
Performance tables

R134a, 220V/50Hz, CSIR, static, CB, VDE

	pe		Cooling capacity			COP		EER		P1		I		m	
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]		[W]		[A]		[kg/h]	
[°C / °F]	-35	-31	141,9	484	122,1	0,88	3,00	0,76		161,5		1,36		3,06	
cond. pressure	-30	-22	189,6	648	163,2	1,03	3,51	0,88		184,6		1,42		4,10	
pc= 45/113	-25	-13	248,7	849	214,0	1,16	3,98	1,00		213,5		1,50		5,39	
return gas temp.	-23	-10	271,6	928	233,7	1,21	4,14	1,04		224,2		1,54		5,89	
RGT= 32/90	-20	-4	320,6	1095	275,9	1,31	4,46	1,12		245,4		1,61		6,97	
liquid temp	-15	5	407,2	1391	350,4	1,47	5,01	1,26		277,5		1,72		8,88	
Tliq= 45/113	-10	14	510,1	1742	439,0	1,66	5,68	1,43		306,8		1,83		11,16	
[°C / °F]	-35	-31	114,8	392	98,8	0,72	2,47	0,62		158,9		1,35		2,73	
cond. pressure	-30	-22	157,7	538	135,7	0,86	2,93	0,74		183,9		1,41		3,76	
pc= 55/131	-25	-13	210,3	718	181,0	0,98	3,34	0,84		215,1		1,50		5,03	
return gas temp	-23	-10	230,8	788	198,6	1,02	3,48	0,88		226,5		1,54		5,52	
RGT= 32/90	-20	-4	274,5	937	236,2	1,10	3,76	0,95		249,4		1,62		6,58	
liquid temp	-15	5	351,7	1201	302,7	1,24	4,23	1,07		284,2		1,74		8,47	
Tliq= 55/131	-10	14	443,7	1515	381,9	1,40	4,79	1,21		316,4		1,87		10,73	

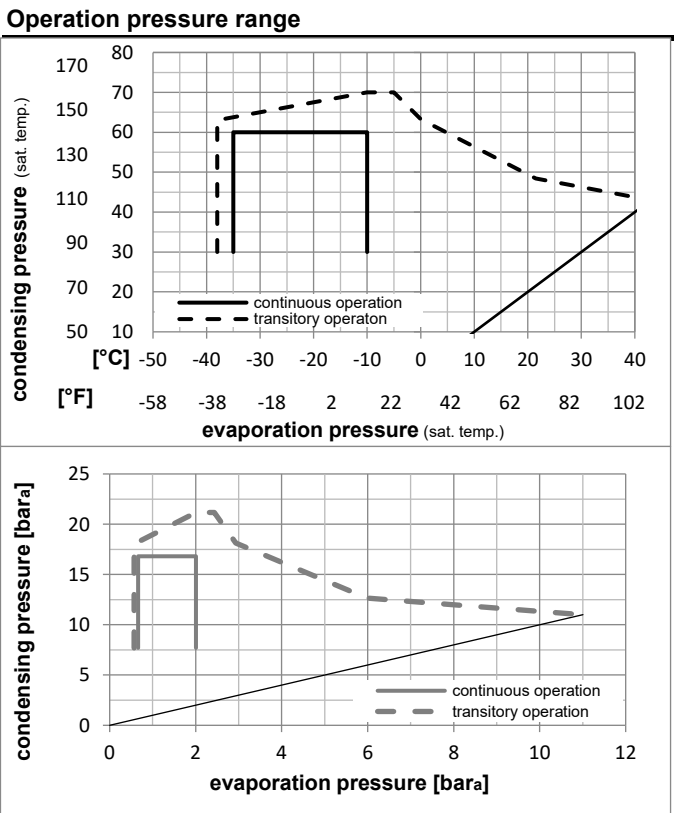
Model				
Designation	NL10FT	220-240V/50Hz	Conf. 2	Sales code: 105G6817

Configuration		Electrical accessories / wiring diagram		
Motorconfiguration	RSIR	RSIR		
Power supply (nominal)	220-240V/50Hz 1~			
Refrigerant	R134a			
Application	LBP			
Voltage range	187-254V			
Starting torque	LST			
Approvals	CB			
	VDE			



Ambient temperatures / system cooling	
Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	static	n/a	n/a
38°C / 100°F	fan 1,5m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a



Components		
a1	PTC starter (220V, 25Ohm, 4.8mm)	103N0018
b	plastic cover	103N2011
d	cord relief	103N1010
g	protection screen for PTC	103N0476

Alternative components		
a1	PTC starter (220V, 25Ohm, 6.3mm)	103N0011
b	plastic cover	103N2010
d	cord relief	103N1010
g	protection screen for PTC	103N0476

Model

Designation

NL10FT

220-240V/50Hz

Conf. 2

Sales code:

105G6817

Optimization + standard conditions

R134a, 220V/50Hz, RSIR, static, CB, VDE

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
					Return gas temp.						Current consumption			
					Liquid temp.						Ref. mass flow			
					Cooling capacity									
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	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]		[W]	[A]	[kg/h]			
[°C / °F]	-35	-31	141,9	484	122,1	0,88	3,00	0,76		161,5	1,36	3,06			
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Tliq= 45/113	-10	14	510,1	1742	439,0	1,66	5,68	1,43		306,8	1,83	11,16			
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