

NL6.1FT

Tropical Compressor

R134a

220-240V 50Hz

Data Sheet

General

Compressor	NL6.1FT
Code number	105G6620

Application

Application	LBP
Evaporating temperature range	°C -35 to -10
Voltage range	V/Hz 187 - 254 /50
Motor type	RSIR*)
Max. ambient temperature	°C 43
Comp. cooling at ambient temp.	32°C S
	38°C S
	43°C S

*) In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

Design

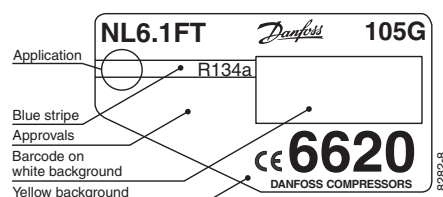
Displacement	cm ³	6.13
Oil quantity	cm ³	320
Maximum refrigerant charge	g	400
Free gas vol. in compressor	cm ³	2270
Weight without electrical equipment	kg	9.3

Motor

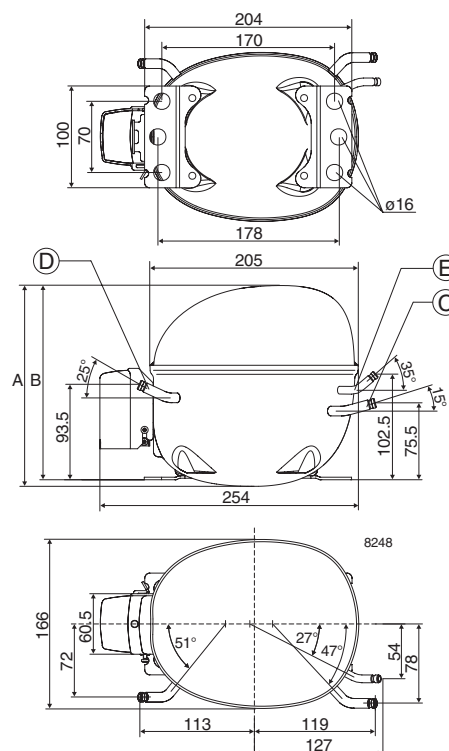
Motor size	watt	131
LRA (rated after 4 sec. UL984) LST/HST	A	5.4/7.4
Cut-in current LST/HST	A	10.2/7.4
Resistance, main and start winding (25°C)	Ω	15.2/12.3
Approvals		EN 60335-2-34

Dimensions

Height	mm	A	188
		B	181
Suction connector	location/I.D. mm	C	6.2 ±0.09
Process connector	location/I.D. mm	D	6.2 ±0.09
Discharge connector	location/I.D. mm	E	5.0 +0.12/+0.20
Compressors on a pallet	pcs.		80



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s
(compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary



Capacity (EN 12900/CECOMAF) watt

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT	60	84	115	127	152	198	253

Capacity (ASHRAE) watt

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT	74	104	141	156	188	244	311

Power consumption watt

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT			123	130			

Current consumption A

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT			0.84	0.85			

COP (EN 12900/CECOMAF) W/W

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT			0.93	0.98			

COP (ASHRAE) W/W

Comp. °C	-35	-30	-25	-23.3	-20	-15	-10
NL6.1FT			1.15	1.21			

Test conditions	EN 12900/CECOMAF	ASHRAE
Condensing temperature	55°C	55°C
Ambient and suction gas temp.	32°C	32°C
Liquid temperature	55°C	32°C
Static cooling, 220V 50Hz, PTC consumption incl. preliminary data		

Accessories

Devices	Fig.	NL6.1FT
PTC starting device 6.3 mm spades 4.8 mm spades	a1	103N0011 103N0018
Starting relay	a2	117U6017
Cover	b	103N2010
Starting capacitor 80 µF	c	117U5015
Cord relief	d	103N1010
Protection screen for PTC	g	103N0476
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap-on in quantities		118-1919

