

NF-FX Standard Compressor

R134a

220V 50Hz

Data Sheet

General

Compressor		NF9FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G6843 105G6853*)
Copper	Rubber plugs	

*) Oil cooler version

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-30 to 45 (-34.4 to 7.2)
Voltage range	V/Hz	198 - 242 /50
Motor type		CSIR
Max. ambient temperature	°F (°C)	100 (38)
Comp. cooling at ambient temp.		
	90°F (32°C)	O/F ₁
	100°F (38°C)	O/F ₁

Design

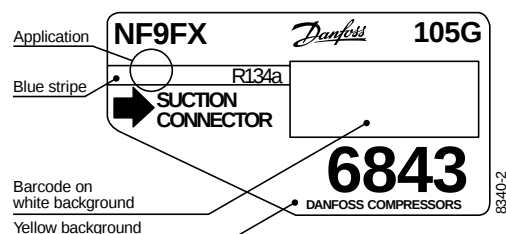
Displacement	cu.in. (cm ³)	0.51 (8.35)
Oil quantity	fl.oz. (cm ³)	10.9 (320)
Maximum refrigerant charge	oz. (g)	14.1 (400)
Free gas vol. in compressor housing	fl.oz. (cm ³)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23 (10.5)

Motor

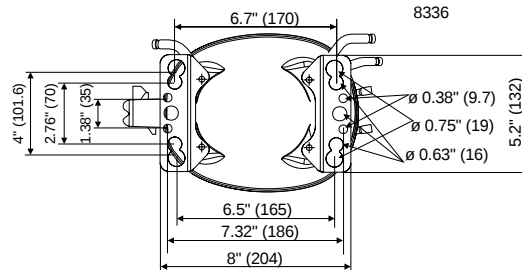
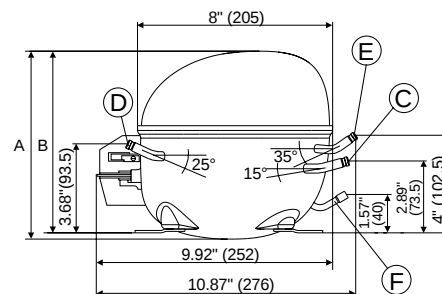
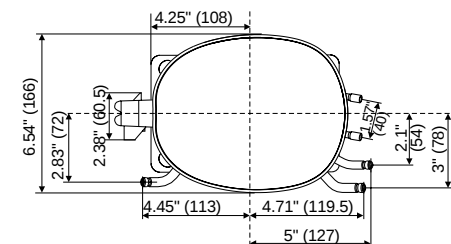
Motor size	watt	345
LRA (rated after 4 sec.UL984) HST	A	15.8
Cut-in current HST	A	15.8
Resistance, main and start winding (77°F)	Ω	5.8/12.6
Approvals		-

Dimensions

Height	in. (mm)	A	8 (203)
		B	7.76 (197)
Suction connector	location/I.D. in. (mm)	C	0.320-0.327 (8.2±0.09)
Process connector	location/I.D. in. (mm)	D	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E	0.252-0.259 (6.5±0.09)
Oil cooler	location/I.D. in. (mm)	F	0.252-0.259 (6.5±0.09)
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 (ASHRAE)**Btu/h**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	389	562	712	786	1061	1409	1566	1825	2331	2912	2978	3237

Capacity (CECOMAF)**watt**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	94	135	171	189	254	337	375	436	557	694	710	771

Power consumption**watt**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	151	180	200	209	238	269	281	299	330	361	365	377

Current consumption**A**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	1.72	1.77	1.81	1.83	1.89	1.97	2.00	2.05	2.14	2.24	2.25	2.29

EER (ASHRAE)**Btu/Wh**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	2.57	3.13	3.57	3.76	4.46	5.25	5.59	6.12	7.08	8.05	8.09	8.62

COP (CECOMAF)**W/W**

Comp.°F	-30	-20	-13	-10	0	10	14	20	30	40	41	45
Comp.°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	5.0	7.2
NF9FX	0.62	0.75	0.86	0.90	1.07	1.25	1.33	1.46	1.68	1.92	1.95	2.04

Test conditions

Condensing temperature
 Ambient and suction gas temp.
 Liquid temperature
 Fan cooling F₁, 220 50Hz

ASHRAE

130°F (54.4°C)
 90°F (32°C)
 90°F (32°C)

CECOMAF

55°C (131°F)
 32°C (90°F)
 55°C (131°F)

Accessories

Devices	Fig.	NF9FX
Starting relay (Klixon incl.)	a2	117U4140
Klixon		MRP59EN-6
Cover	b	117U1023
Starting capacitor 125 µF	c	117U5018
Cord relief	d	117U0317
Cord relief capacitor	dc	117U0349
Mounting accessories		
Bolt joint for one compressor		118-1917
Bolt joint in quantities		118-1918
Snap on in quantities		118-1919

