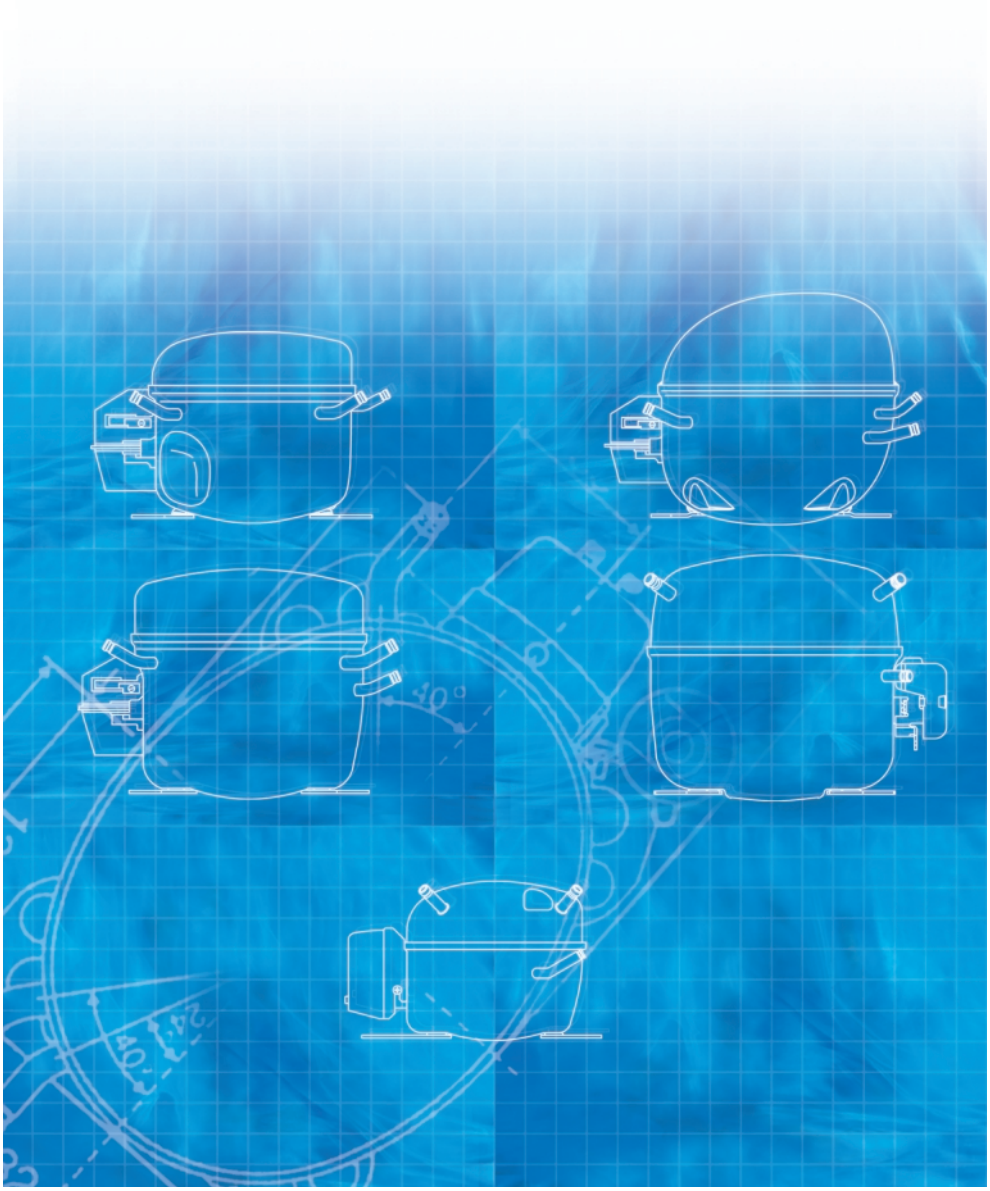
COMPRESSORS

Collection of Datasheets

Compressors for R134a
115V 60Hz



REFRIGERATION AND AIR CONDITIONING

Standard Compressors

Energy-optimized Compressors

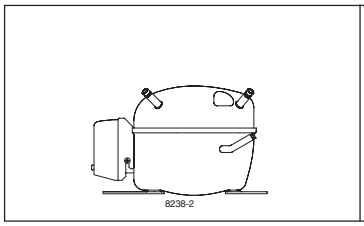
High Energy-optimized Compressors

Tropical Compressors

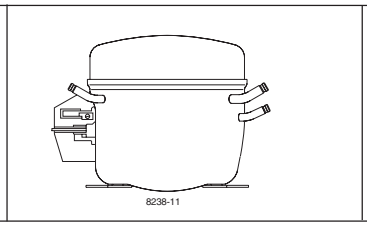
Universal Compressors

1. General

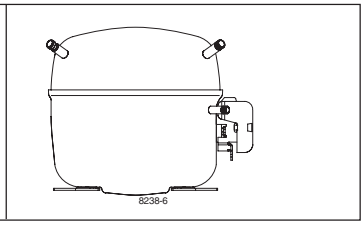
This collection of datasheets contains information on Danfoss hermetic refrigeration compressors for 115V especially designed for refrigeration systems using refrigerant R134a (CF_3-CH_2F).
The programme consists of the basic types PL, TF, TL, TT, NF, NL, NT, FF and SC.



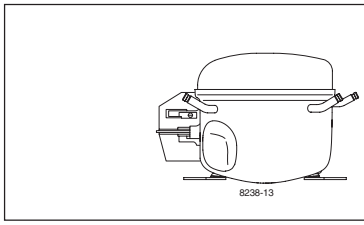
PL



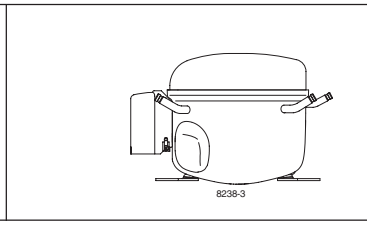
FF



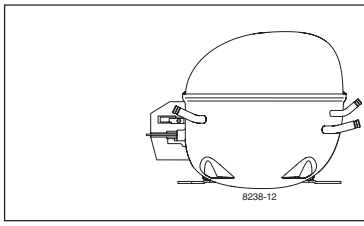
SC



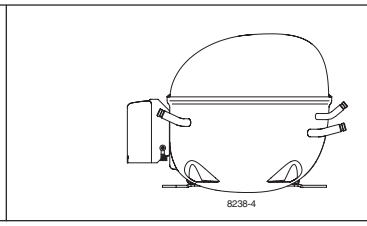
TF/TT



TL



NF/NT



NL

1.1 Compressor designations

The compressor designations are built up according to the following system:

Compressor design	Optimization level	Compressor size	Application range	Generation
PL	Blank Standard energy level S Semi-direct intake E Energy-optimized (optimized motor) Y, X High Energy-optimized (high optimization level)	Nominal displacement in cm^3 Exception: For PL compressors the capacity at rating point is stated	F R134a LBP/(MBP) FT R134a LBP/(MBP) tropical FK R134a LBP/(MBP) LST FX R134a LBP/(MBP) HST G R134a LBP/MBP/HBP GK R134a LBP/MBP/HBP LST GX R134a LBP/MBP/HBP HST	Blank → First generation 2 → Second generation 3 → Third generation etc.
TF, TL, TT				
NF, NL, NT				
FF				
SC				

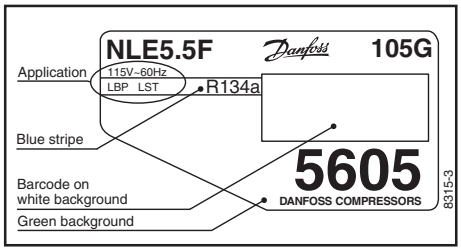
Example

TF	S	4.5	FT	
NL	E	7	F	
FF		8.5	GX	
NF		6.1	FX	2

1.2 Design

Compressors with the denominations PL, TFS, TLS, TTE, NLE, NF are designs with semi-direct intake. Compressors with the denominations TTY and NTY are designs with direct intake. Please note that the suction and process connectors on all TFS, TLS, TTE and TTY compressors have been interchanged as compared with the normal TL compressors.
Using the wrong connector as suction connector on PL, TFS, TLS, TTE, NF, NL and NLE compressors will lead to reduced capacity and efficiency.
Using the wrong connector as suction connector on TTY and NTY is not allowed since the compressor will not function.

1.3 Type label

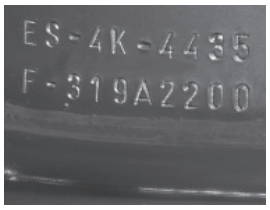


All compressors have a green label with the type designation. This label has a blue stripe and the text 'R134a'.

1.4 Data stamping

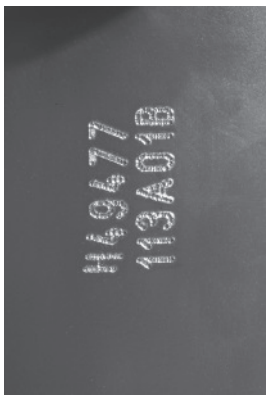
Danfoss compressors have a manufacturing date code stamping on the housing. The form mainly used recently is stamping into the top cover of the housing. On some compressor production lines the stamping has been changed to needle printing into the side of the housing. This is going to be introduced on all products.
For a certain period 2 different codes, in needle printing and cover stamping, will be used in parallel. The coding is designed not to be mixed up with the previous version.

Example (recent date code):



L--4F-4400
F-203E1157
The first line states the model designation and the code no.
L- = last letter (or last two letters) of the compressor type
-4F- = nominal displacement and application
4400 = 4 last digits in the code no.
(- = position mark)
The second line states the date of manufacture and internal Danfoss codes.
F = manufacturing place (F = Germany, AL = Slovenia, AM = Mexico)
20 = week 20
3 = 2003
E = Friday (A = Monday etc.)
115 = nominal voltage
7 = internal Danfoss code
The country of origin (manufacturing place) is also stamped on the compressor cover.

Example (new date code):



H49477 (6 characters)
113A01B (7 characters)
Composition of line 1
H4947: Compressor type information (102H4947 = H4947)
7: internal Danfoss code
Composition of line 2
11: Production week
3: Production year
A: Production day
A = Monday, B = Tuesday, C = Wednesday, etc.
01: Production hour 00 to 23 or shift code -1, -2, -3
B: Danfoss Compressors internal production location code
A to G Germany
K to N Slovenia
R, S Mexico

1.5 Compressor dimensions

The build-in conditions (total height, weight, tube dimensions etc.) are specified in the individual datasheets including dimensional sketches for the compressors.

2. Application range

F Compressors with denominations ending with **F** are primarily designed for low evaporating temperatures (LBP **L**ow **B**ack **P**ressure/MBP **M**edium **B**ack **P**ressure on small displacements) for use in refrigerators, freezers and similar applications in regions with stable supply voltage.

FT Compressors with denominations ending with **FT** are F-types designed for low evaporation temperatures (LBP **L**ow **B**ack **P**ressure) for use in refrigerators, freezers and similar applications operating in regions with unstable supply voltage.

FK Compressors with denominations ending with **FK** are F-types designed for low evaporation temperatures with LST starting characteristics (capillary tube).

FX Compressors with denominations ending with **FX** are F-types designed for low evaporation temperatures with HST starting characteristics (expansion valve).

G Compressors with denominations ending with **G** are primarily designed for high evaporation temperatures (HBP **H**igh **B**ack **P**ressure) for use in liquid coolers, dehumidifiers, refrigerated display counters, vending machines and similar applications. The compressors can also be used for 'Heavy Duty' purposes at low evaporating temperatures for use in refrigerators, freezers and similar applications operating in regions with unstable supply voltage.

GK Compressors with denominations ending with **GK** are G-types designed for high evaporating temperatures with LST starting characteristics (capillary tube).

GX Compressors with denominations ending with **GX** are G-types designed for high evaporating temperatures with HST starting characteristics (expansion valve).

The table on page 6 shows the normally recommended applications as regards voltage/frequency, ambient temperature, evaporating temperature and necessary compressor cooling. The recommandations must be regarded as a guideline only as they presuppose a proper dimensioning of the refrigeration system.

2.1 Design limits

In order to secure a satisfying lifetime of the compressor, and to protect the compressor against overload, some design criteria for the appliances must be fulfilled.
Both the condensing temperature and the compressor temperature should be kept as low as possible. This can be done by using well-dimensioned condenser surfaces and by ensuring good ventilation around the compressor under all operating conditions.
In order to protect the compressor against overload, the compressor has to start and work properly through pressure peaks obtained in the highest ambient temperature and lowest obliging voltage. At peak load the condensing temperature must not exceed 158°F (70°C). The winding temperature must not exceed 275°F (135°C).

Condensing temperature
Winding temperature

At stable operation conditions the condensing temperature must not exceed 140°F (60°C). The winding temperature must not exceed 257°F (125°C).
These limitations secure protection of valves, gaskets, oil, and motor insulation

Compressor		Power Supply [V/Hz]	Ambient temperature 110°F (43°C)		
			LBP	MBP	HBP
F	PL30F	90 - 127 /50	S	S	S
		90 - 127 /60	S	S	S
	PL50F	103 - 127 /60	S	S	
	TL2.5 - 3 - 4F	103 - 127 /60	S	S	
	TLS4.5F	103 - 127 /60	S		
	TF3 - 3.5F	95 - 135 /60	S		
	TFS4F	95 - 135 /60	S		
	TT2.5F	103 - 127 /60		S	
	TTE3FK	103 - 127 /60	S		
	TTE4F	103 - 127 /60	S*		
	TTY5 - 6F	103 - 127 /60	S*		
	NLE5.5 - 6 -7F	103 - 127 /60	S*		
FT	TFS4.5FT (LBP)	95 - 135 /60	S		
	TFS4.5FT (LBP/MBP)	95 - 135 /60	F_1	F_1	
	SC12FTX	95 - 135 /60	F_2**	F_2**	
	SC15FTX	95 - 135 /60	F_2	F_2	
		90 -110 /50	F_2	F_2	
		90 -110 /60	F_2	F_2	
FK	NF6 - 7FK	95 - 135 /60	F_1 (38°C: S)	F_1 (38°C: S)	
	NF9 - 9.5FK	95 - 135 /60	F_2	F_2	
	NTY5.5 - 6FK	103 - 127 /60	S*		
	NTY7 - 9 - 10FK	103 - 127 /60	F_1*		
	NTX5.2 - 5.7 - 7.3FK	103 - 127 /60	S*		
	FF8.5FK	103 - 127 /60	F_2	F_2	
FX	NF5.5 - 7FX	95 - 135 /60	O/F_1	O/F_1	
	NF9FX	95 - 135 /60	F_2	O/F_1	
	NF10FX	95 - 135 /60	F_2	F_1	
	NF11FX	95 - 127 /60		F_2	
	NF6.1 - 7.3FX.2	95 - 135 /60	O/F_1	O/F_1	
	NF8.4FX.2	95 - 135 /60	F_2	O/F_1	
G	TL2.5G	103 - 127 /60	S	S	S
	TL4G	90 - 127 /50	S	S	S
		90 - 127 /60	S	S	S
	SC12 -15G	103 - 127 /60	O/F_1	O/F_1	O/F_1
	SC18G	95 - 135 /60	F_2	F_2	
		103 - 127 /60			F_2
GK	FF6 - 7.5GK	103 - 127 /60	O/F_1	O/F_1	O/F_1
GX	FF8.5 - 10GX	103 - 127 /60	F_1	F_1	F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temp.)
F_2 = Fan cooling 3.0 m/s necessary
▭ = Outside application range, not recommended
* = Run capacitor compulsory
** = Not applicable below -20°F evaporating temperature in 110°F ambient temperature above 127V

The application limits regarding evaporating temperatures and motor systems are specified in the individual compressor datasheets.

3. Electrical equipment

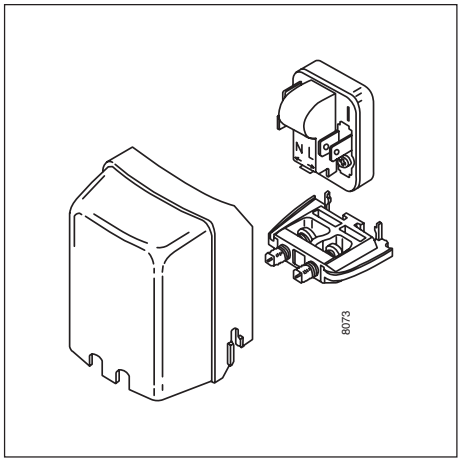
The compressors are equipped with a single-phase AC motor.
The electrical equipment is classified as 'normal tight' (IP20)
Earth connections are located on the bracket around the current lead-in of the compressor.
No attempt must be made to start the compressor without a complete starting device.
The compressors can be supplied with the following motor systems:

3.1 LST (RSIR)

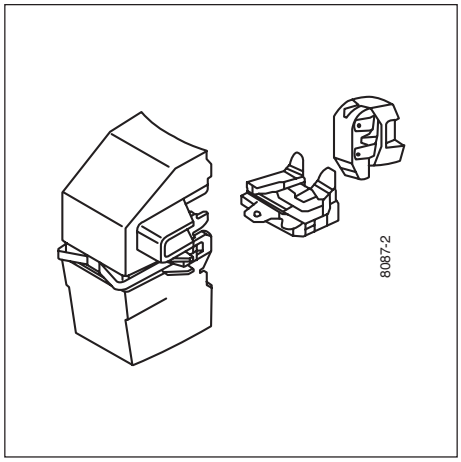
Compressors with the motor type **R**esistant **S**tart **I**nduction **R**un (RSIR) have a starting device for **L**ow **S**tarting **T**orque (LST). This starting device requires a pressure-equalized system before each start. This starting device is normally used in well-designed refrigerating systems with capillary tube as throttling device. The design of the electrical equipment depends on the actual compressor design. As shown in the drawings the following designs of starting devices exist:

a) PTC + cord relief + cover, the motor protector is built into the motor (winding protector)
b) PTC + motor protector + cover
c) relay housing incl. motor protector + terminal board with cord relief + cover
d) relay housing incl. motor protector + cord relief + cover

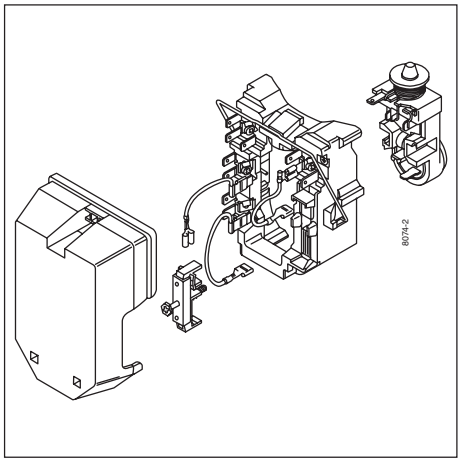
Starting devices with PTC need a compressor standstill period of 5 minutes to cool down the PTC before each start.



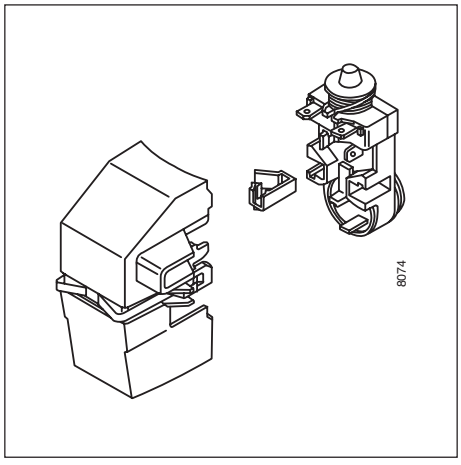
a) PL, TL, TLE, TLS



b) TT, NTE



c) FF-GK (alternative)



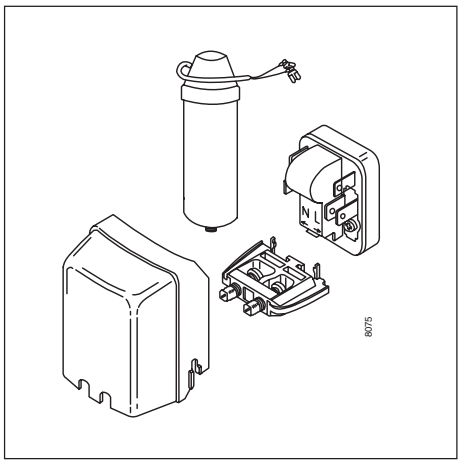
d) TF, TFS, FF, NF

3.2 LST (RSCR)

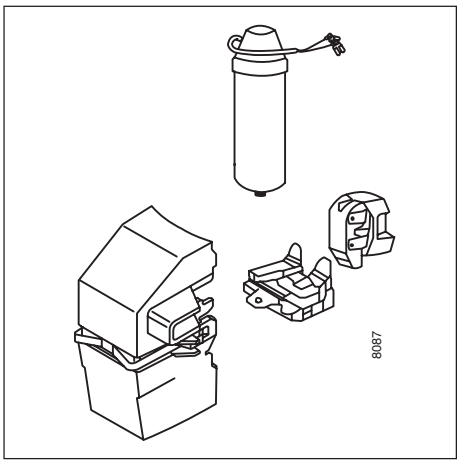
Compressors with the motor type **R**esistant **S**tart **C**apacitor **R**un (RSCR) have a starting device for **L**ow **S**tarting **T**orque (LST). This starting device requires a pressure-equalized system before each start. This starting device is normally used in well-designed refrigerating systems with capillary tube as throttling device. The design of the electrical equipment depends on the actual compressor design. As shown in the drawings the following designs of starting devices exist:

a) PTC + run capacitor + cord relief + cover,
   the motor protector is built into the motor (winding protector)
b) PTC + run capacitor + motor protector + cover

Starting devices with PTC need a compressor standstill period of 5 minutes to cool down the PTC before each start. This starting device is mandatory for some compressor designs and it is an option for others (specified in the invidual data sheets).



a) NLE

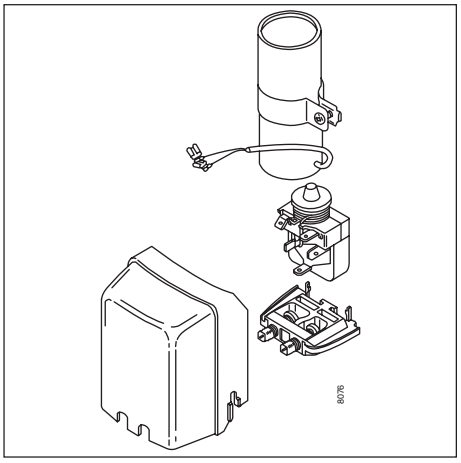


b) NTE, NTY, TT

3.3 HST (CSIR)

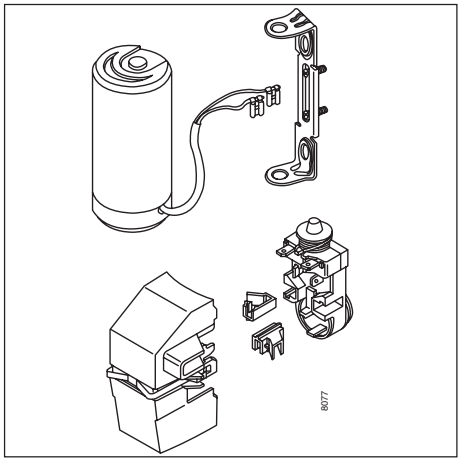
Compressors with the motor type **C**apacitor **S**tart **I**nduction **R**un (CSIR) have a starting device for **H**igh **S**tarting **T**orque (HST). This starting device requires no pressure-equalization before each start and is normally used in refrigerating systems with expansion valve as throttling device or in capillary tube systems where pressure equalizing is not obtained during the standstill periods. The starting capacitor is designed for short time cut-in. '1.7% ED' , which is stamped on the starting capacitor, means for instance max. 10 cut-ins per hour each with a duration of 6 seconds. The design of the electrical equipment depends on the actual compressor design. As shown in the drawings the following designs of starting devices exist:

a) Relay + starting capacitor + cord relief + cover, the motor protector is built into the motor (winding protector)
b) Relay housing incl. motor protector + starting capacitor with bracket + cord relief (2x) + cover
c) Relay housing incl. motor protector + starting capacitor + cord relief (2x) + cover
d) Relay + starting capacitor + cord relief + cover (SC)
e) Relay + starting capacitor (with bracket) + cover/ protector/protector holder (parts of compressor), used for compressors with the denomination SC which have an external protector.

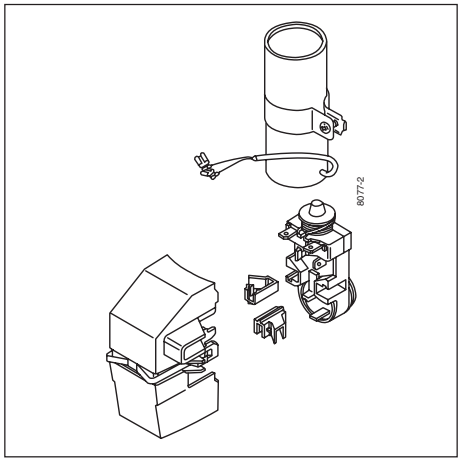


a) TL, TLS

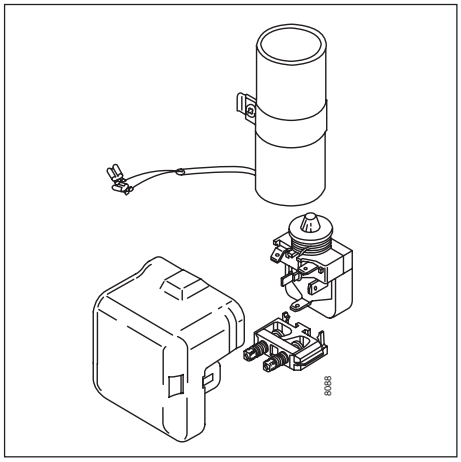
This starting device is mandatory for some compressor designs and it is an option for others (specified in the invidual data sheets).



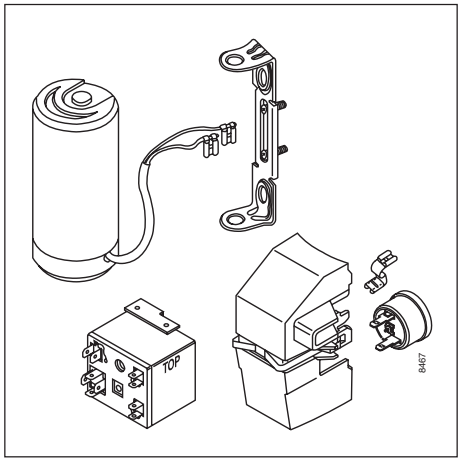
b) FF-X



c) NF-X, TFS



d) SC



e) SC (external protector)

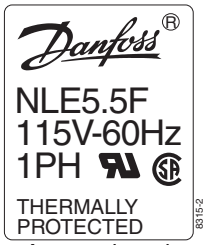
3.4 Connections

The electrical components are equipped with connectors depending on the ordered code number,

Starting relays:	1/4 in. (6.3 mm) spade connectors only
PTCs:	1/4 or 3/16 in. (6.3 or 4.8 mm) spade connectors

The power supply must be connected as shown in the wiring diagrams for the chosen electrical equipment given in the actual datasheets.

3.5 Approvals



Approval mark

Most compressors have been approved in respect of safety by testing authorities UL and CSA. Actual standards to which the compressors have been approved are specified in the individual datasheets. Approval markings appear on a separate approval mark label.

4. Moisture and Impurities

The compressors are dried to a maximum moisture content of 60 to 75 mg depending on the compressor size. The maximum impurity content is 40 to 50 mg depending on the compressor size.

5. Max. refrigerant charge

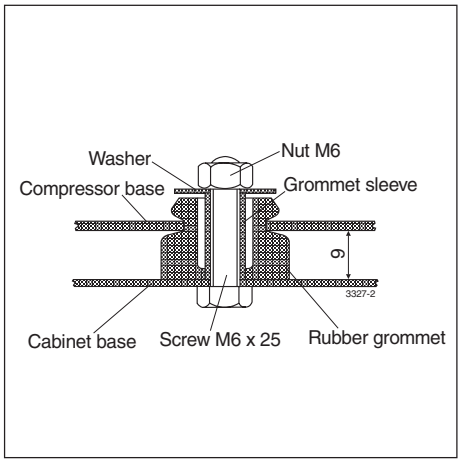
The refrigerant charge must never be too large to be contained on the condenser side of the refrigeration system. Only the refrigerant amount which is necessary for the system to function must be charged.
The refrigerant amount may be critical as regards oil foaming and liquid hammer after long standstill periods. Because of this, limitations of refrigerant charges have been introduced. The maximum refrigerant charge is specified in the individual datasheets.
If these limitations cannot be complied with, the risk may be reduced if a crankcase heater is properly used or if a pump down system is established.

6. Oil charge

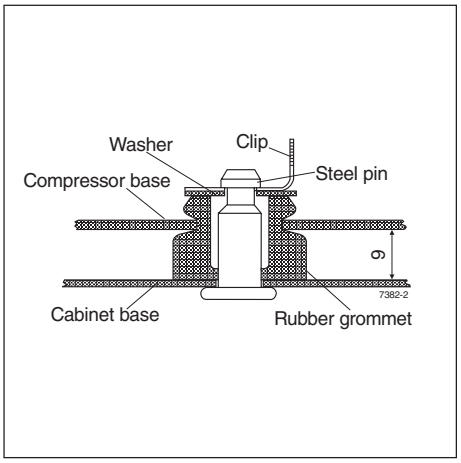
The compressors are supplied charged with dried and degassed oil, which is normally sufficient for the lifetime of the compressor. The refrigeration systems and the system components must be dimensioned in such a way that the oil can be lead back continuously to the compressor housing without accumulating in the system, e.g. without oil pockets and with sufficient gas velocity. The compressors use polyolester oils and are approved only for these oils and R134a. The oil charge is specified in the individual datasheets.

7. Mounting

Soldering problems caused by oil in the connectors can be avoided by placing the compressor on its baseplate some time before soldering it into the system. The compressor must never be placed upside down when mounting the rubber grommets in the baseplate. Instead place the compressor on its side with the connectors upwards.



Bolt joint (metric sytem)



Snap-on joint

7.1 Mounting accessories

The mounting accessories for the compressors are available in two versions, with bolt joint or snap-on joint. The code numbers for the mounting accessories are specified in the individual compressor datasheets.
These rubber grommets are designed for the 5/8 in. (16 mm) holes of the baseplate:

Bolt joint for one compressor in a bag	118 - 1917 (with screw M6 x 25 mm)
	118 - 1946 (with screws 1/4 inch)
Bolt joint in quantities	118 - 1918 (with screws M6 x 25 mm)
Snap-on in quantities	118 - 1919
Snap-on for one compressor in a bag	118 - 1947

These rubber grommets are designed for the 3/4 in. (19 mm) holes of the baseplate:

Bolt joint in quantities	118 - 1949 (with screws 1/4 inch)

8. Condition at delivery

The compressors are delivered without mounted starting devices on pallets with the dimensions 1144 x 800 mm. Quantities per pallets are specified in the individual datasheets. Electrical components are packed in separate boxes.
The most important performance controls carried out during manufacturing are,

- A high potential insulation test with 1650V for 1 second
- Pumping capacity
- Tightness of discharge side and discharge valve
- Tightness of compressor housing
- Check of the right oil charge
- Noise test

The compressors are supplied with sealed connectors and the sealing should not be removed before the system assembly takes place
(max 15 minutes with open connectors).

9. Conversion from R12 to R134a

Normally, the capillary tube shall be adjusted at low evaporating temperatures. Compared to an optimized R12 system with the same evaporator capacity, the R134a system must have an increased resistance defined as approx. 10% less N_2 flow at 10 bar inlet pressure.
The same size of capillary tube as used for R12 can be used at high evaporating temperatures.

A drier with 3Å desiccant of Molecular Sieves must always be used.

Rules for dryness and cleanliness of system components (e.g. DIN 8964) are transferred to R134a systems.

The system components must not contain mineral oil or greasy substances.

The compressors must be soldered into the system no later than 15 minutes after the connector seals have been removed.

The same evacuation procedure as for R12 systems must be used.

Max. 1% non-condensable gases.

The system must not contain any chlorine.

The charging equipment must only be used for R134a.

If the same vacuum pump is to be used for R12 and R134a systems, a special Ester oil must be used in agreement with the pump supplier.

10. Warnings

No high potential test nor start tests must be carried out while the compressor is under vacuum.
No attempt must be made to start the compressor without a complete starting device.
Allow the compressor to assume a temperature above 50°F (10°C) before starting the first time in order to avoid starting problems.
Anti-freeze agents must not be used in the compressors as such agents are damaging to several of the materials used. In particular, the ethyl or methyl alcohol contents of such anti-freeze agents have a destructive effect on the synthetic motor insulation.

PL30F
Standard Compressor
R134a
100-115V 50/60Hz

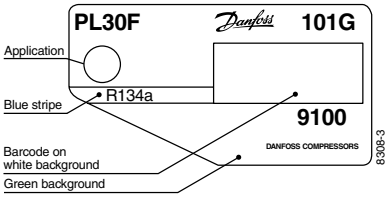
Data Sheet (Replaces CD.41.J4.22)

General

Compressor (CU-plated steel connectors)	**PL30F**
Code number	101G9100

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-13 to 59 (-25 to 15)
Voltage range	V/Hz	90 - 127 /50,60
Motor type		RSIR/CSIR
Max. ambient temperature	V/°F (°C)	115 / 110 (43)
at Voltage	V/°F (°C)	100 / 100 (38)
Comp. cooling at		
max. ambient temperature	110°F (43°C)	S
	100°F (38°C)	S



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

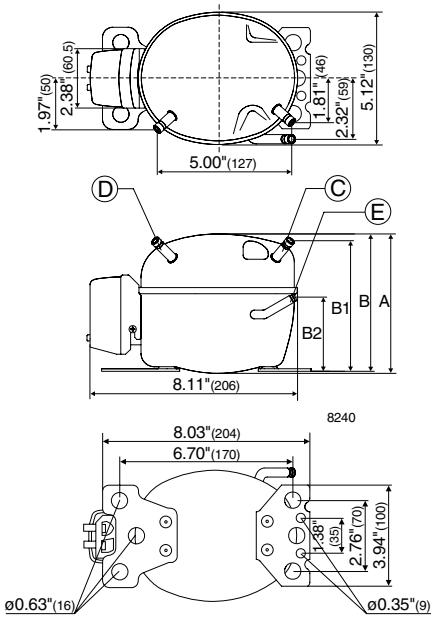
Displacement	cu.in. (cm^3)	0.09 (1.41)
Oil quantity	fl.oz. (cm^3)	5.1 (150)
Maximum refrigerant charge	oz. (g)	10.5 (300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	28.9 (850)
Weight without electrical equipment	lbs. (kg)	9.5 (4.3)

Motor

Motor size	watt	50
LRA (rated after 4 sec.UL984) LST/HST	A	9.5/6.1
Cut-in current LST/HST	A	9.5/6.1
Resistance, main and start winding (77°F)	Ω	7.6/13.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	5.28 (134)
		B	5.20 (132)
		B1	4.88 (124)
		B2	2.87 (73)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		150



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	89.1	103	156	221	302	399	517	584	657	804

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	79.2	91.6	139	197	268	354	458	517	581	711

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
PL30F	21.0	24.3	36.8	52.3	71.2	94.2	122	137	154	189

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	49.7	50.8	55.2	60.5	66.3	72.4	78.5	81.4	84.2	88.9

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	1.07	1.07	1.09	1.11	1.13	1.16	1.19	1.20	1.22	1.25

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	1.79	2.03	2.82	3.66	4.55	5.51	6.58	7.17	7.79	9.04

EER at HBP conditions (ASHRAE) **Btu/Wh**

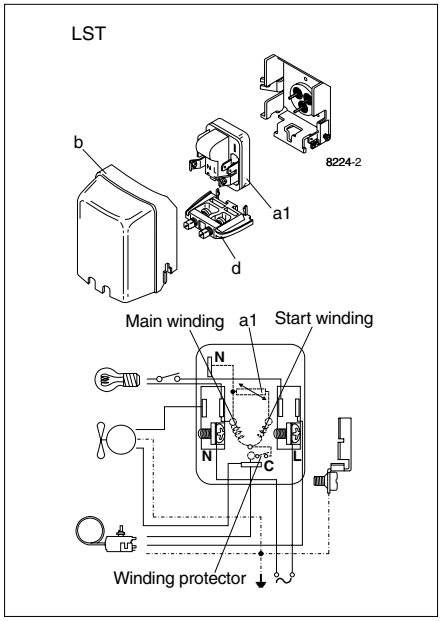
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
PL30F	1.59	1.80	2.51	3.25	4.04	4.89	5.83	6.35	6.90	7.99

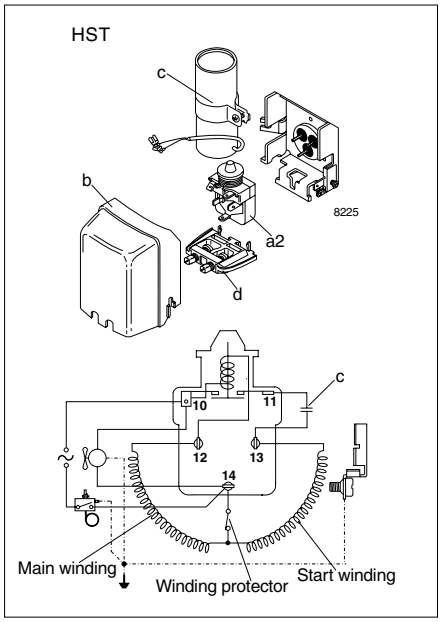
COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
PL30F	0.42	0.48	0.67	0.86	1.07	1.30	1.55	1.69	1.83	2.12

Test conditions	ASHRAE (LBP)	ASHRAE (HBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.





Accessories

Devices	Fig.	PL30F
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0003
3/16 in. (4.8 mm) spades		103N0023
Starting relay	a2	117U6000
Starting capacitor 80 µF	c	117U5015
Cover	b	103N0492
Cord relief	d	103N1010
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

PL50F
Standard Compressor - LST Starting Characteristics
R134a
115V 60Hz

Data Sheet (Replaces CD.41.A6.22)

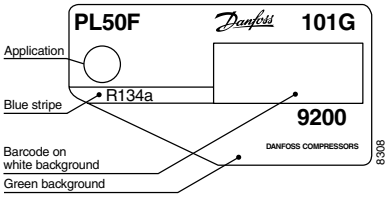
General

Compressor (CU-plated steel connectors)	**PL50F**
Codenumber	101G9200

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-13 to 32 (-25 to 0)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary



Approval mark

Design

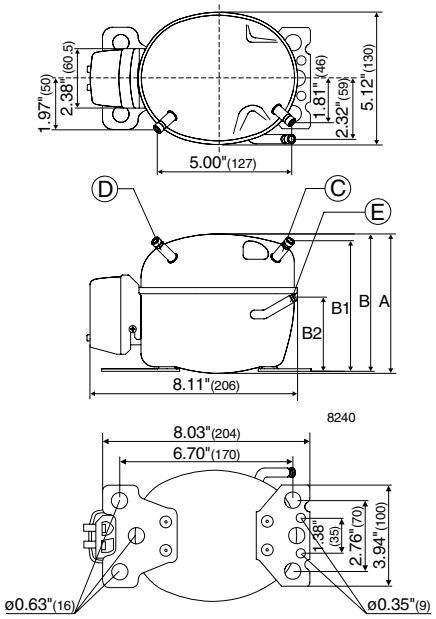
Displacement	cu.in. (cm^3)	0.12 (2.00)
Oil quantity	fl.oz. (cm^3)	5.1 (150)
Maximum refrigerant charge	oz. (g)	10.5 (300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	28.9 (850)
Weight without electrical equipment	lbs. (kg)	9.5 (4.3)

Motor

Motor size	watt	50
LRA (rated after 4 sec.UL984) LST	A	4.9
Cut-in current LST	A	14.0
Resistance, main and start winding (77°F)	Ω	8.8/5.5
Approvals		UL984/CSA-C22.2

Dimensions

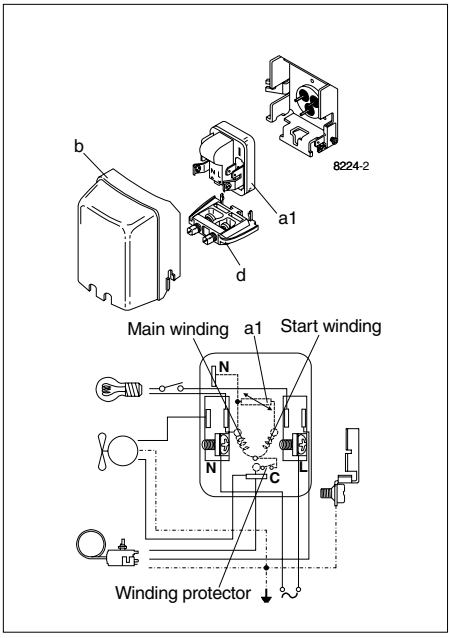
Height	in. (mm)	A	5.28 (134)
		B	5.20 (132)
		B1	4.88 (124)
		B2	2.87 (73)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±0.09)
Process connector	location/I.D. in. (mm)	D	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		150



Capacity at LBP conditions (ASHRAE)							Btu/h
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	155	175	249	335	437	557	584
Capacity at MBP conditions (ASHRAE)							**Btu/h**
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	138	156	221	297	388	494	518
Capacity (EN 12900/CECOMAF)							**watt**
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
Comp.\°F	-13	-10	0	10	20	30	32
PL50F	36.8	41.5	58.9	79.3	103	132	138
Power consumption							**watt**
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	62.3	65.0	73.2	80.9	88.5	96.2	97.8
Current consumption							**A**
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	1.12	1.13	1.18	1.22	1.27	1.33	1.34
EER at LBP conditions (ASHRAE)							**Btu/Wh**
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	2.49	2.70	3.39	4.14	4.94	5.79	5.97
EER at MBP conditions (ASHRAE)							**Btu/Wh**
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	2.21	2.40	3.02	3.67	4.38	5.14	5.29
COP (EN 12900/CECOMAF)							**W/W**
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
Comp.\°F	-13	-10	0	10	20	30	32
PL50F	0.59	0.64	0.80	0.98	1.17	1.37	1.41

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.



Accessories

Devices	Fig.	PL50F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0003 103N0023
Cover	b	103N0492
Cord relief	d	103N1010
Mounting accessories Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919

PL50F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.41.I3.22)

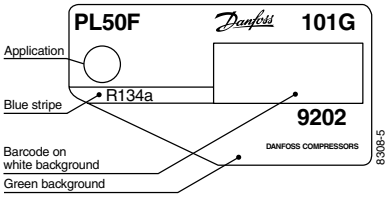
General

Compressor (CU-plated steel connectors)	**PL50F**
Codenumber	101G9202

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-13 to 32 (-25 to 0)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR/CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary



Approval mark

Design

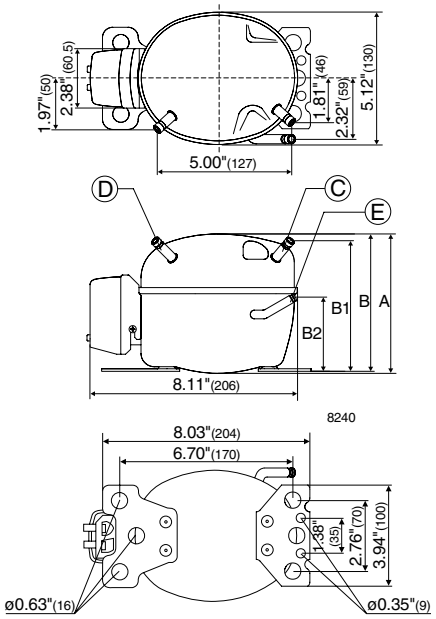
Displacement	cu.in. (cm^3)	0.12 (2.00)
Oil quantity	fl.oz. (cm^3)	5.1 (150)
Maximum refrigerant charge	oz. (g)	10.5 (300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	28.9 (850)
Weight without electrical equipment	lbs. (kg)	9.5 (4.3)

Motor

Motor size	watt	50
LRA (rated after 4 sec.UL984) LST/HST	A	9.5/6.1
Cut-in current LST/HST	A	9.5/6.1
Resistance, main and start winding (77°F)	Ω	7.6/13.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	5.28 (134)
		B	5.20 (132)
		B1	4.88 (124)
		B2	2.87 (73)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		150



Capacity at LBP conditions (ASHRAE)							Btu/h
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	155	175	249	335	437	557	584

Capacity at MBP conditions (ASHRAE)							Btu/h
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	138	156	221	297	388	494	518

Capacity (EN 12900/CECOMAF)							watt
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
Comp.\°F	-13	-10	0	10	20	30	32
PL50F	36.8	41.5	58.9	79.3	103	132	138

Power consumption							watt
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	62.3	65.0	73.2	80.9	88.5	96.2	97.8

Current consumption							A
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	1.12	1.13	1.18	1.22	1.27	1.33	1.34

EER at LBP conditions (ASHRAE)							Btu/Wh
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	2.49	2.70	3.39	4.14	4.94	5.79	5.97

EER at MBP conditions (ASHRAE)							Btu/Wh
Comp.\°F	-13	-10	0	10	20	30	32
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
PL50F	2.21	2.40	3.02	3.67	4.38	5.14	5.29

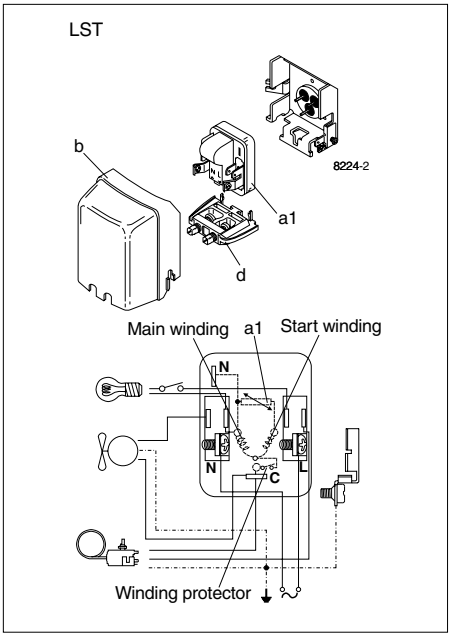
COP (EN 12900/CECOMAF)							W/W
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	0
Comp.\°F	-13	-10	0	10	20	30	32
PL50F	0.59	0.64	0.80	0.98	1.17	1.37	1.41

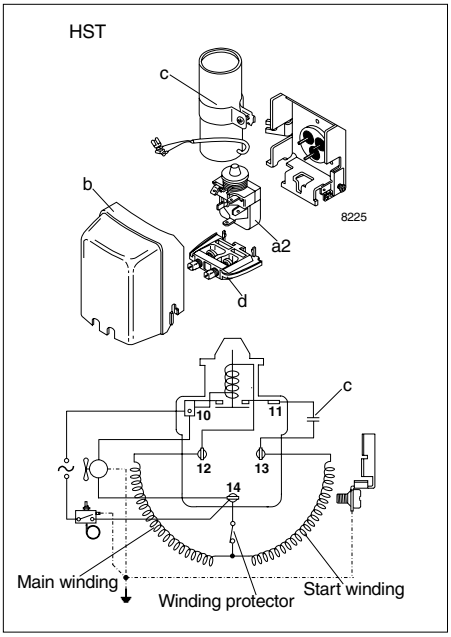
Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	PL50F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0003 103N0023
Starting relay	a2	117U6000
Starting capacitor 80 µF	c	117U5015
Cover	b	103N0492
Cord relief	d	103N1010
Mounting accessories Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919



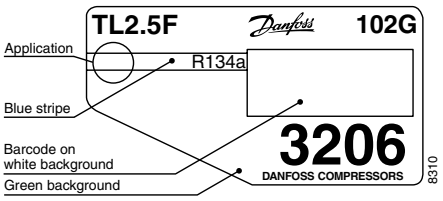


TL2.5F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.B5.22)

General

Compressor		TL2.5F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3206
Copper-plated steel	Rubber plugs	
Copper	Rubber plugs	



Application

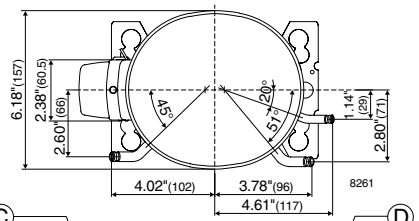
Application		LBP/MBP
Evaporating temperature range	°F (°C)	-13 to 23 (-25 to -5)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

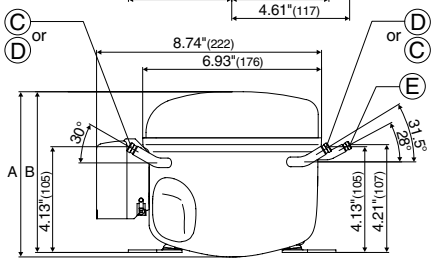
Design

Displacement	cu.in. (cm^3)	0.16 (2.61)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)



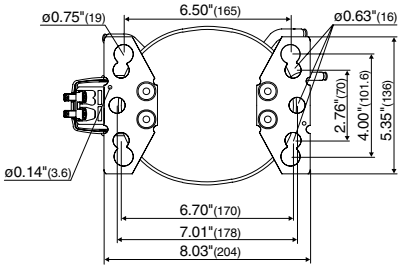
Motor

Motor size	watt	75
LRA (rated after 4 sec.UL984) LST	A	5.3
Cut-in current LST	A	14.5
Resistance, main and start winding (77°F)	Ω	7.3/4.8
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	181	202	287	396	524	568

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	162	180	255	354	466	506

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TL2.5F	43	48	68	93	124	134

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	61	65	77	90	104	109

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	0.91	0.94	1.00	1.08	1.22	1.29

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	2.96	3.11	3.73	4.42	5.05	5.22

EER at MBP conditions (ASHRAE) **Btu/Wh**

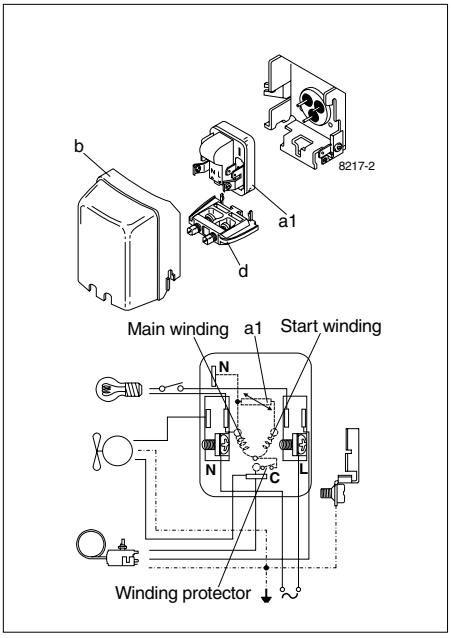
Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL2.5F	2.63	2.77	3.32	3.93	4.49	4.65

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TL2.5F	0.70	0.74	0.88	1.04	1.19	1.23

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.



Accessories

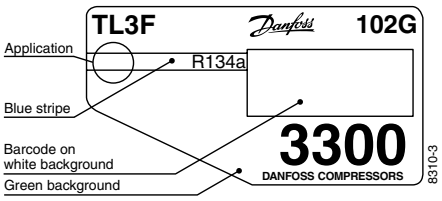
Devices	Fig.	TL2.5F
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0003
3/16 in. (4.8 mm) spades		103N0023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

TL3F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.42.O1.22)

General

Compressor		TL3F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3300
Copper-plated steel	Rubber plugs	102G3307
Copper	Rubber plugs	



Application

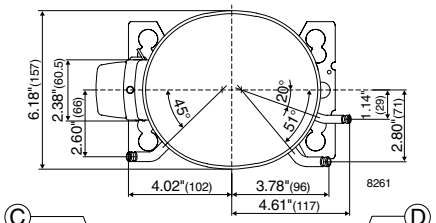
Application		LBP/MBP
Evaporating temperature range	°F (°C)	-13 to 23 (-25 to -5)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

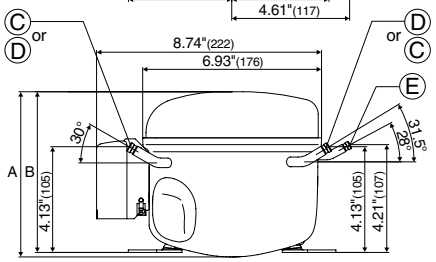
Design

Displacement	cu.in. (cm³)	0.19 (3.13)
Oil quantity	fl.oz. (cm³)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)



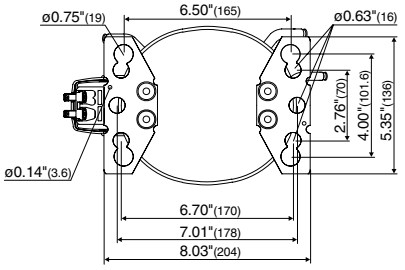
Motor

Motor size	watt	90
LRA (rated after 4 sec.UL984) LST	A	6.0
Cut-in current LST	A	15.0
Resistance, main and start winding (77°F)	Ω	6.3/4.8
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	228	253	351	478	636	692

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	203	225	312	425	566	616

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TL3F	54	60	83	113	150	163

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	72	77	92	108	125	130

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	1.09	1.12	1.21	1.32	1.47	1.52

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	3.15	3.29	3.80	4.42	5.11	5.34

EER at MBP conditions (ASHRAE) **Btu/Wh**

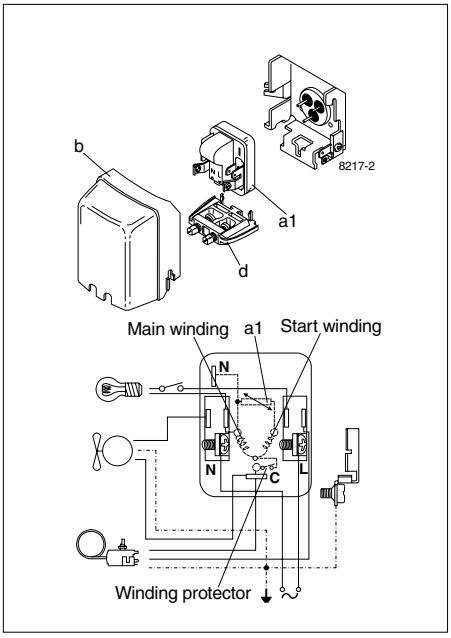
Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TL3F	2.80	2.93	3.38	3.93	4.55	4.75

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TL3F	0.75	0.78	0.90	1.04	1.20	1.26

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.



Accessories

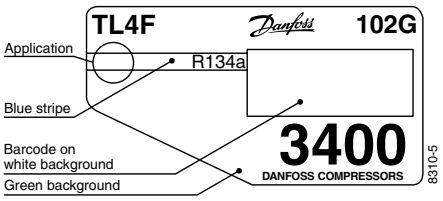
Devices	Fig.	TL3F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0003 103N0023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories **(102G3307)** Bolt joint for one compressor Bolt joint for one compressor Snap-on for one compressor	Ø in. (mm) 5/8 (16) 3/4 (19) 5/8 (16)	 118-1946 118-1949 118-1947
Mounting accessories **(102G3300)** Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919

TL4F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.42.P1.22)

General

Compressor		TL4F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3400
Copper-plated steel	Rubber plugs	102G3402
Copper	Rubber plugs	



Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 20 (-35 to -6.7)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

Design

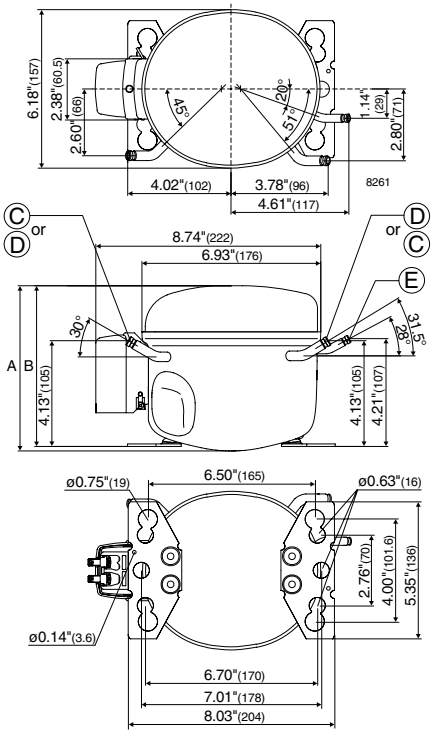
Displacement	cu.in. (cm³)	0.23 (3.86)
Oil quantity	fl.oz. (cm³)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)

Motor

Motor size	watt	105
LRA (rated after 4 sec.UL984) LST	A	7.0
Cut-in current LST	A	16.0
Resistance, main and start winding (77°F)	Ω	5.3/4.9
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	181	228	281	310	430	594	802

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	161	203	250	276	383	529	714

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	20
TL4F	43	54	66	73	102	141	190

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	64	77	87	91	107	124	142

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	1.36	1.43	1.49	1.52	1.61	1.72	1.84

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	2.81	2.97	3.25	3.41	4.03	4.79	5.64

EER at MBP conditions (ASHRAE) **Btu/Wh**

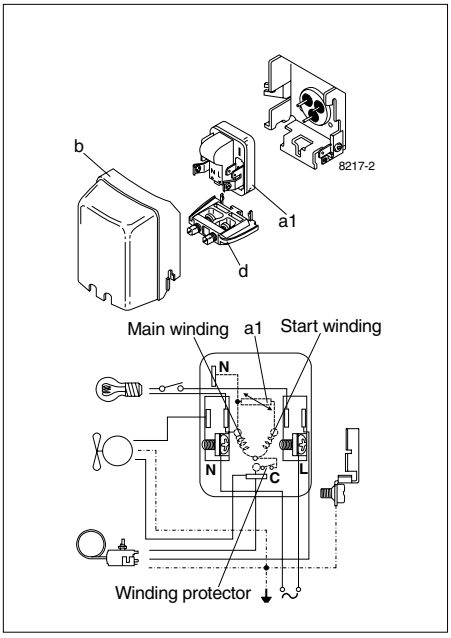
Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TL4F	2.50	2.64	2.89	3.03	3.59	4.26	5.02

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	20
TL4F	0.66	0.70	0.77	0.80	0.95	1.13	1.33

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.



Accessories

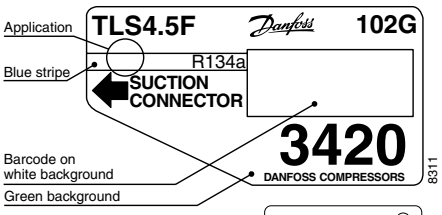
Devices	Fig.	TL4F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0003 103N0023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories **(102G3402)** Bolt joint for one compressor Bolt joint for one compressor Snap-on for one compressor	Ø in. (mm) 5/8 (16) 3/4 (19) 5/8 (16)	 118-1946 118-1949 118-1947
Mounting accessories **(102G3400)** Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919

TLS4.5F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.D4.22)

General

Compressor (CU-plated steel connectors)	**TLS4.5F**
Codenumber (small baseplate)	102G3420
Codenumber (large baseplate)	102G3421



Approval mark

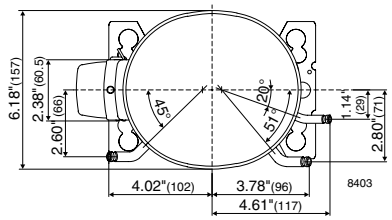
Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 23 (-35 to -5)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR/CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

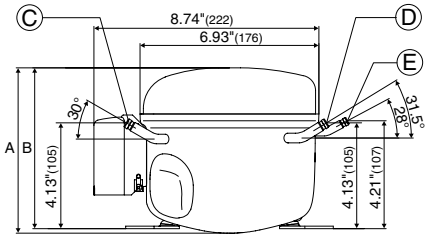
Design

Displacement	cu.in. (cm^3)	0.29 (4.63)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.7 (1790)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)



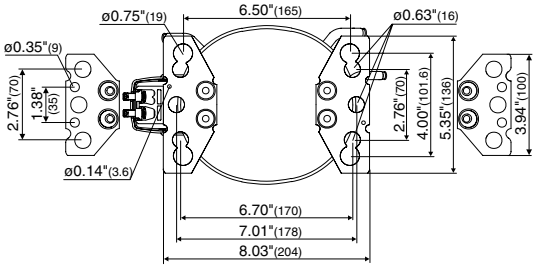
Motor

Motor size	watt	170
LRA (rated after 4 sec.UL984) LST/HST	A	12.2/14.2
Cut-in current LST/HST	A	22.6/14.2
Resistance, main and start winding (77°F)	Ω	3.2/3.4
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector location/I.D.	in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	23
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
TLS4.5F	245	340	431	477	654	875	1135	1225

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-30	-20	-13	-10	0	10	20	23
TLS4.5F	58	80	102	113	155	208	269	290

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	23
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
TLS4.5F	92	110	123	129	150	174	199	207

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	23
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
TLS4.5F	1.87	1.93	1.99	2.02	2.13	2.27	2.41	2.46

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	23
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
TLS4.5F	2.66	3.10	3.50	3.69	4.34	5.03	5.71	5.91

COP (EN 12900/CECOMAF) **W/W**

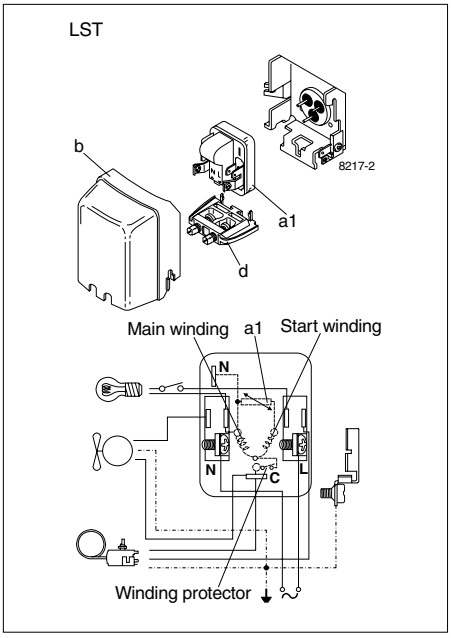
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-30	-20	-13	-10	0	10	20	23
TLS4.5F	0.63	0.73	0.83	0.87	1.03	1.19	1.35	1.40

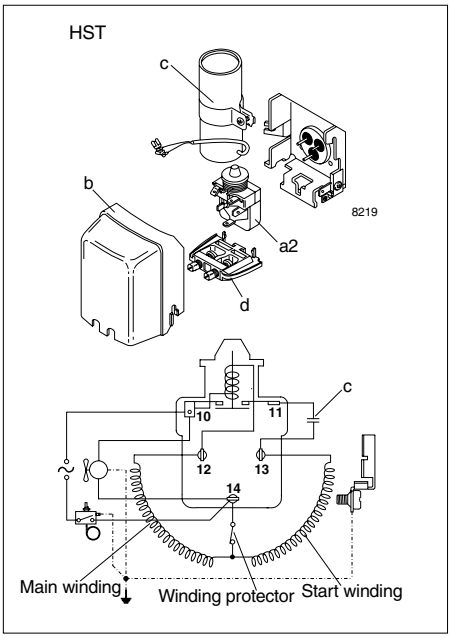
Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	TLS4.5F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0003 103N0023
Starting relay	a2	117U6003
Starting capacitor 240 µF	c	117U5023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919



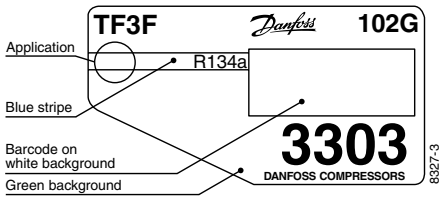


TF3F
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.42.C4.22)

General

Compressor		TF3F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3303
Copper	Rubber plugs	102G3301



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

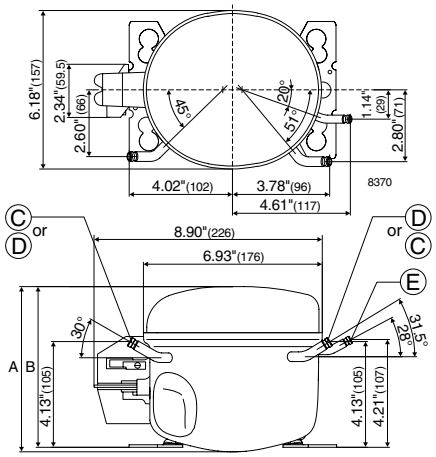
S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

Displacement	cu.in. (cm^3)	0.19 (3.13)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)

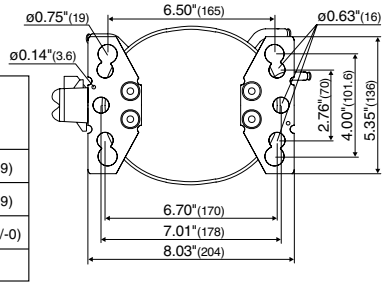
Motor

Motor size	watt	100
LRA (rated after 4 sec.UL984) LST	A	15.7
Cut-in current LST	A	15.7
Resistance, main and start winding (77°F)	Ω	5.1/10.0
Approvals		-



Dimensions

		102G3303	102G3301
Height	in. (mm)	A 6.42 (163)	
		B 6.26 (159)	
Suction connector	location/I.D. in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Process connector	location/I.D. in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet	pcs.	125	



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3F	69.9	148	210	239	348	478	538

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TF3F	16.1	34.7	49.5	56.4	82.2	113	127

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3F	37.0	57.7	71.0	76.5	93.6	109	116

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3F	1.10	1.20	1.28	1.31	1.43	1.54	1.59

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3F	1.89	2.56	2.96	3.13	3.72	4.37	4.65

COP (EN 12900/CECOMAF) **W/W**

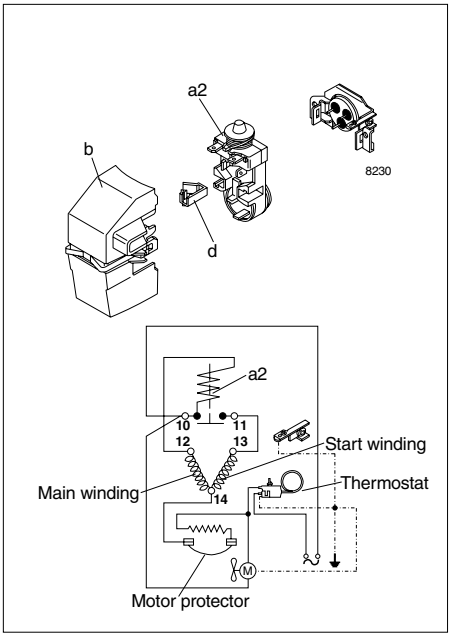
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TF3.F	0.44	0.61	0.70	0.74	0.88	1.03	1.10

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, 115V 60Hz

Accessories

Devices	Fig.	TF3F
Starting relay (protector incl.)	a2	117U4100
Protector 3/4" Texas Instr.		MRP61GL-6
Cover	b	117U1021
Cord relief	d	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

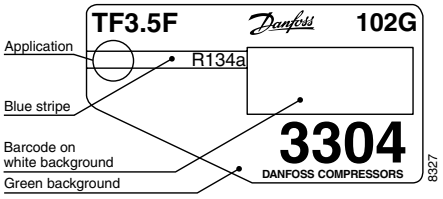


TF3.5F
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.42.Q1.22)

General

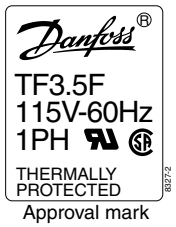
Compressor		TF3.5F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3304
Copper	Rubber plugs	102G3302



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary



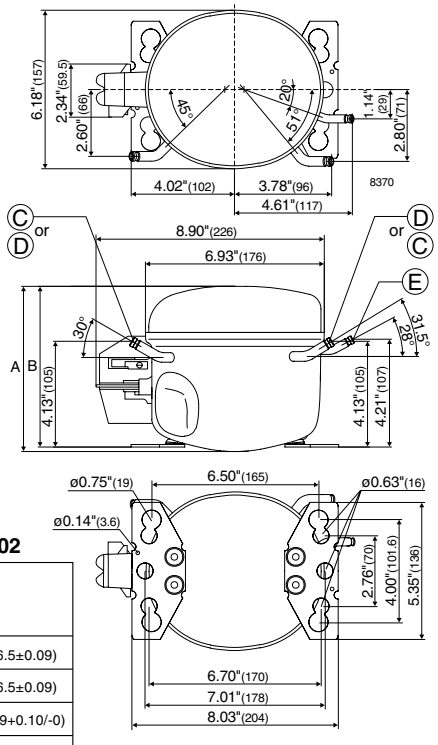
Approval mark

Design

Displacement	cu.in. (cm³)	0.22 (3.59)
Oil quantity	fl.oz. (cm³)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	60.6 (1790)
Weight without electrical equipment	lbs. (kg)	16.5 (7.5)

Motor

Motor size	watt	135
LRA (rated after 4 sec.UL984) LST	A	18.9
Cut-in current LST	A	18.9
Resistance, main and start winding (77°F)	Ω	3.8/7.8
Approvals		UL984/CSA-C22.2



Dimensions

			102G3304	102G3302
Height		in. (mm)	A 6.81 (173)	
			B 6.65 (169)	
Suction connector	location/I.D.	in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet		pcs.	125	

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3.5F	133	205	270	303	426	581	651

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TF3.5F	32	49	64	72	101	138	155

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3.5F	66	79	89	93	108	123	129

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3.5F	1.55	1.60	1.64	1.66	1.73	1.82	1.86

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TF3.5F	2.03	2.59	3.04	3.25	3.96	4.73	5.03

COP (EN 12900/CECOMAF) **W/W**

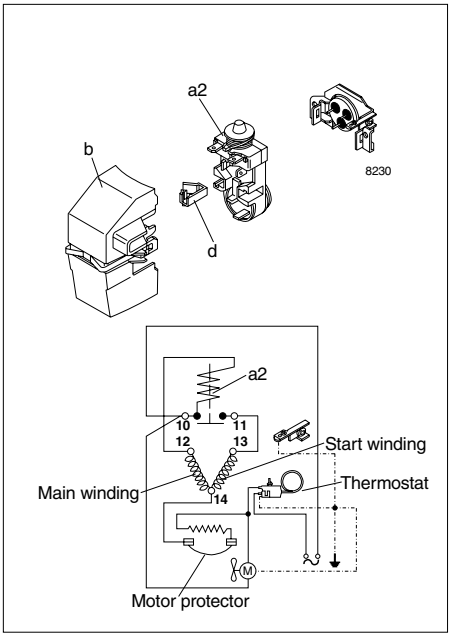
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TF3.5F	0.48	0.62	0.72	0.77	0.94	1.12	1.20

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, 115V 60Hz

Accessories

Devices	Fig.	TF3.5F
Starting relay (protector incl.)	a2	117U4122
Protector 3/4" Texas Instr.		MRP57JK-6
Protector 3/4" Electrica		T 0727/06
Cover	b	117U1021
Cord relief	d	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

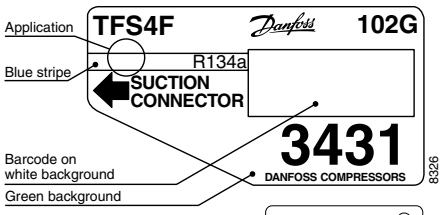


TFS4F
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.42.A4.22)

General

Compressor		TFS4F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3431
Copper	Rubber plugs	102G3430



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

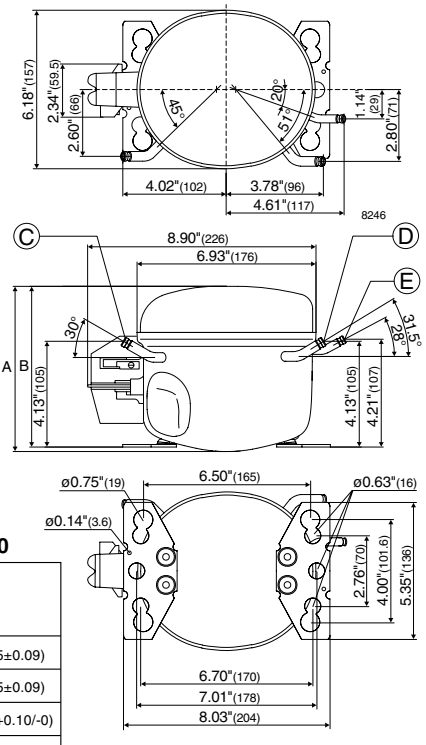
Approval mark

Design

Displacement	cu.in. (cm^3)	0.23 (3.86)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.6 (1790)
Weight without electrical equipment	lbs. (kg)	16.5 (7.5)

Motor

Motor size	watt	135
LRA (rated after 4 sec.UL984) LST	A	18.9
Cut-in current LST	A	18.9
Resistance, main and start winding (77°F)	Ω	3.8/7.8
Approvals		UL984/CSA-C22.2



Dimensions

		102G3431	102G3430
Height	in. (mm)	A 6.81 (173)	
		B 6.65 (169)	
Suction connector location/I.D.	in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Process connector location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector location/I.D.	in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet	pcs.	125	

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4F	155	237	315	355	506	697	782

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TFS4F	37	56	75	85	120	166	186

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4F	60	79	92	97	114	132	139

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4F	1.46	1.53	1.59	1.62	1.71	1.82	1.87

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4F	2.58	3.00	3.44	3.66	4.43	5.28	5.62

COP (EN 12900/CECOMAF) **W/W**

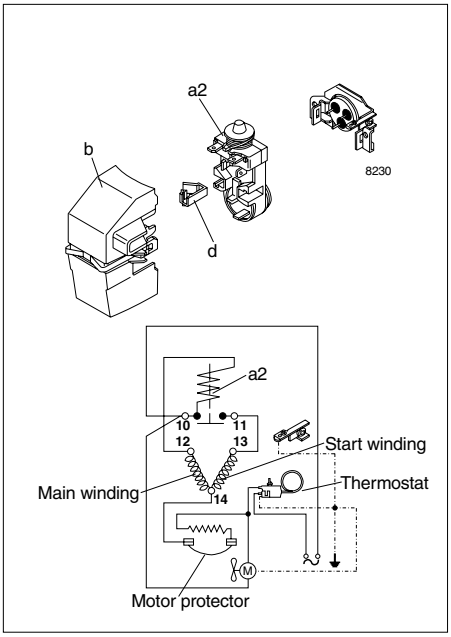
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TFS4F	0.61	0.71	0.82	0.87	1.05	1.26	1.34

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, 115V 60Hz

Accessories

Devices	Fig.	TFS4F
Starting relay (protector incl.)	a2	117U4122
Protector 3/4" Texas Instr.		MRP57JK-6
Protector 3/4" Electrica		T 0727/06
Cover	b	117U1021
Cord relief	d	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

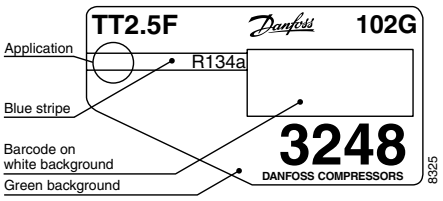


TT2.5F
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.Q5.22)

General

Compressor		TT2.5F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3248
Copper	Rubber plugs	



Application

Application		MBP
Evaporating temperature range	°F (°C)	-13 to 23 (-25 to -5)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

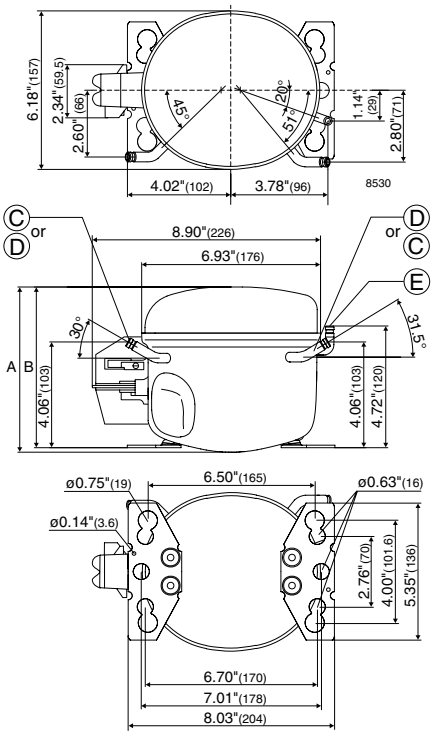
Approval mark

Design

Displacement	cu.in. (cm³)	0.16 (2.61)
Oil quantity	fl.oz. (cm³)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)

Motor

Motor size	watt	65
LRA (rated after 4 sec.UL984) LST	A	5.1
Cut-in current LST	A	14.0
Resistance, main and start winding (77°F)	Ω	8.1/4.9
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.22 (158)
		B	5.98 (152)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet	pcs.		125

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TT2.5F	166	187	268	373	496	539

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TT2.5F	44	50	71	98	132	143

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TT2.5F	66	69	81	93	107	112

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TT2.5F	0.96	0.99	1.04	1.11	1.22	1.28

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	23
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
TT2.5F	2.54	2.69	3.31	3.99	4.64	4.83

COP (EN 12900/CECOMAF) **W/W**

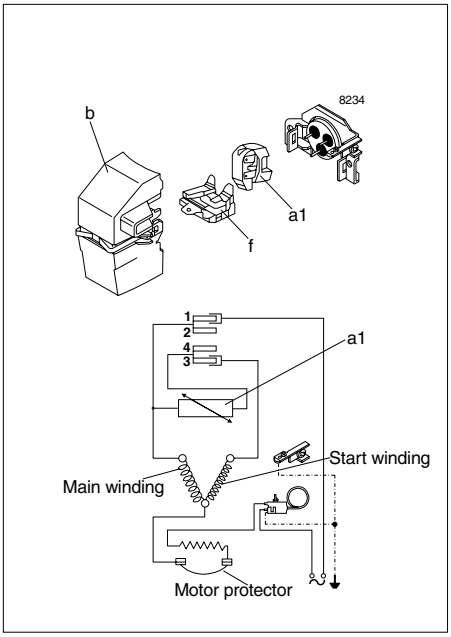
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-5
Comp.\°F	-13	-10	0	10	20	23
TT2.5F	0.68	0.72	0.88	1.05	1.23	1.28

Test conditions	ASHRAE (MBP)	EN 12900/CECOMAF
Condensing temperature	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	115°F (46°C)	55°C (131°F)

Static cooling, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	TT2.5F
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6105
		J506-A120-A120
Cover	b	117U1026
Protector (Texas Instruments)	f	117U3301
		TI-4TM276NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint in one compressor	5/8 (16)	118-1946
Bolt joint in one compressor	3/4 (19)	118-1949
Snap-on in one compressor	5/8 (16)	118-1947

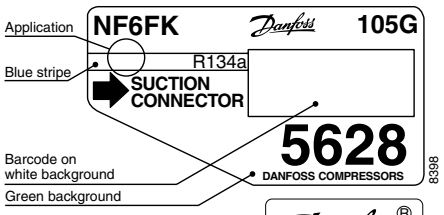


NF6FK
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.43.T2.22)

General

Compressor		NF6FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	105G5636
Copper-plated steel	Rubber plugs	105G5628
Copper	Rubber plugs	



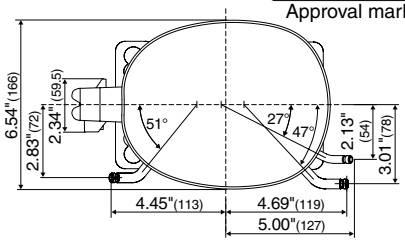
Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR/CSIR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	100°F (38°C)	S
	110°F (43°C)	F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

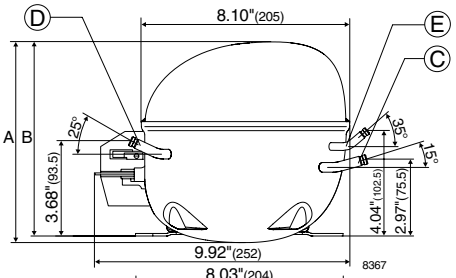
Approval mark

*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).



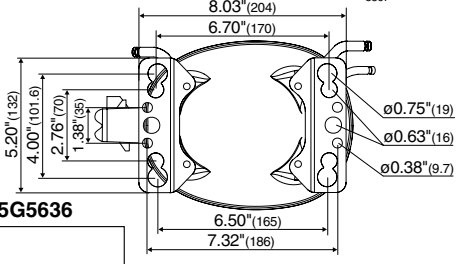
Design

Displacement	cu.in. (cm^3)	0.37 (6.13)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.0 (10.5)



Motor

Motor size	watt	255
LRA (rated after 4 sec.UL984) LST	A	29.4
Cut-in current LST	A	29.4
Resistance, main and start winding (77°F)	Ω	2.0/9.1
Approvals		UL984/CSA-C22.2



Dimensions

			105G5628	105G5636
Height		in. (mm)	A 8.00 (203)	
			B 7.76 (197)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.242-0.249 (6.2±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	286	462	602	668	912	1206	1560	1982	2484	2768

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	254	411	535	593	811	1071	1384	1758	2202	2452

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF6FK	67	109	143	158	216	286	369	468	586	653

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	100	138	162	172	204	232	259	285	310	323

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	2.33	2.49	2.60	2.65	2.82	3.00	3.19	3.39	3.59	3.69

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	2.87	3.35	3.71	3.87	4.48	5.19	6.01	6.95	8.00	8.57

EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6FK	2.55	2.98	3.30	3.44	3.98	4.61	5.34	6.16	7.09	7.59

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF6FK	0.68	0.79	0.88	0.92	1.06	1.23	1.42	1.64	1.88	2.01

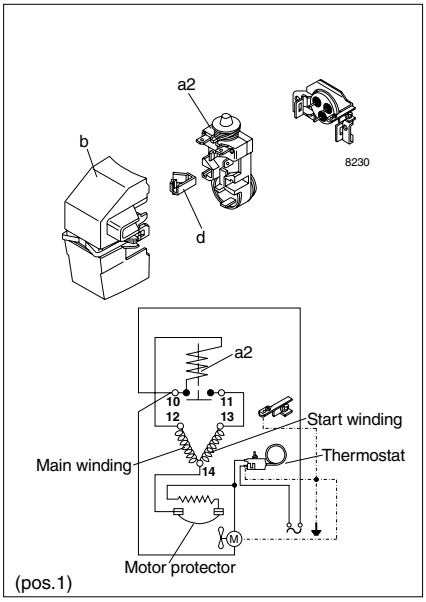
Accessories

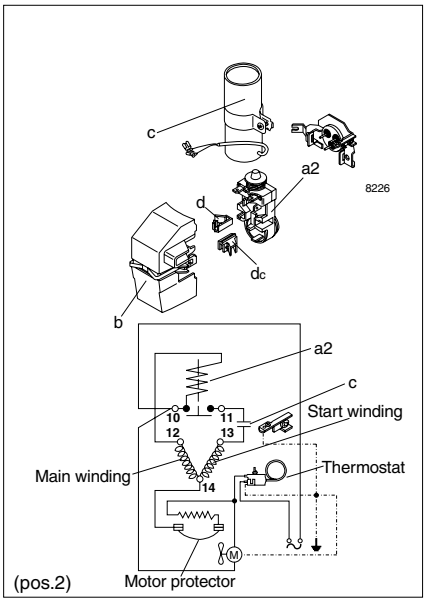
Devices	Fig.	NF6FK
Starting relay (protector incl.)	a2 **(pos.1)**	117U4131
Protector 3/4" Texas Instruments		MRT30AEZ-6
Starting relay (protector incl.)	a2 c **(pos.2)**	117U4132*
Starting capacitor 320 µF		117U5022*
Protector 3/4" Texas Instruments		MRT30AEZ-6
Cover	b	117U1021
Cord relief	d	117U0317
Cord relief capacitor	dc	117U0349
Mounting accessories **(105G5628)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947
Mounting accessories **(105G5636)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. MBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)





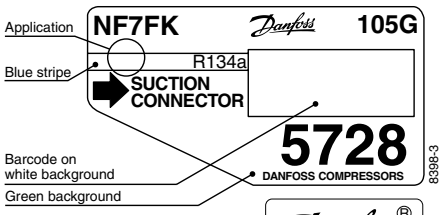
*In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

NF7FK
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.43.U2.22)

General

Compressor		NF7FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	105G5736
Copper-plated steel	Rubber plugs	105G5728
Copper	Rubber plugs	



Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR/CSIR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	100°F (38°C)	S
	110°F (43°C)	F_1

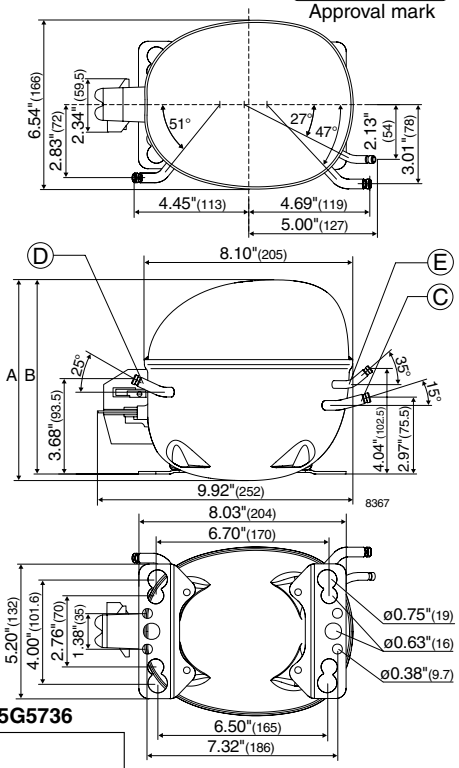
S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

*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	cu.in. (cm^3)	0.44 (7.27)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.0 (10.5)



Motor

Motor size	watt	255
LRA (rated after 4 sec.UL984) LST	A	29.4
Cut-in current LST	A	29.4
Resistance, main and start winding (77°F)	Ω	2.0/9.1
Approvals		UL984/CSA-C22.2

Dimensions

			105G5728	105G5736
Height		in. (mm)	A 8.00 (203)	
			B 7.76 (197)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.242-0.249 (6.2±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	401	600	758	833	1112	1451	1861	2355	2946	3282

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	357	533	674	740	988	1288	1651	2089	2611	2907

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7FK	95	142	180	198	264	344	441	557	696	775

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	130	168	193	204	238	271	303	336	369	385

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	2.52	2.69	2.81	2.87	3.05	3.25	3.45	3.66	3.88	4.00

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	3.08	3.57	3.93	4.09	4.68	5.35	6.13	7.01	7.99	8.52

EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FK	2.74	3.18	3.49	3.64	4.16	4.76	5.44	6.22	7.08	7.55

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7FK	0.73	0.84	0.93	0.97	1.11	1.26	1.45	1.65	1.88	2.00

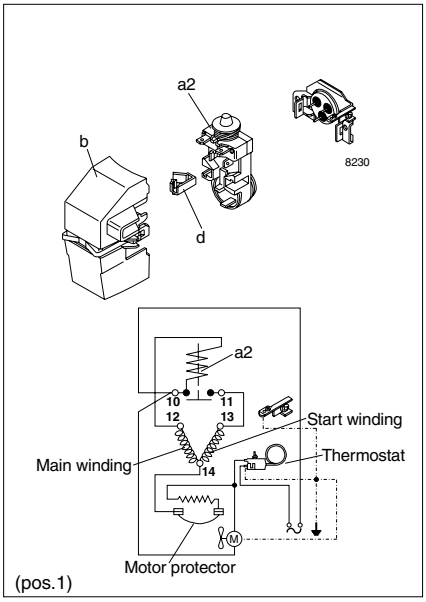
Accessories

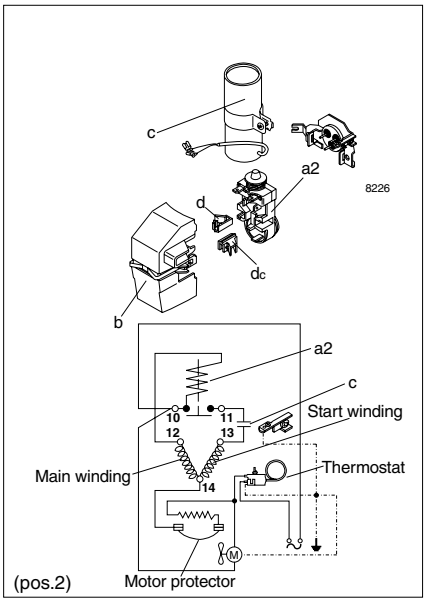
Devices	Fig.	NF7FK
Starting relay (protector incl.)	a2 **(pos.1)**	117U4131
Protector 3/4" Texas Instruments		MRT30AEZ-6
Starting relay (protector incl.)	a2 c **(pos.2)**	117U4132*
Starting capacitor 320 µF		117U5022*
Protector 3/4" Texas Instruments		MRT30AEZ-6
Cover	b	117U1021
Cord relief	d	117U0317
Cord relief capacitor	dc	117U0349
Mounting accessories **(105G5728)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947
Mounting accessories **(105G5736)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. MBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)





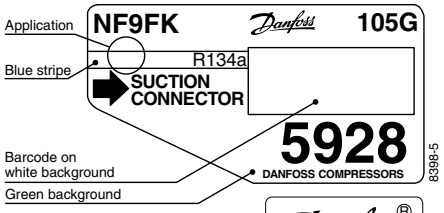
*In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

NF9FK
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.43.V2.22)

General

Compressor		NF9FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	105G5936
Copper-plated steel	Rubber plugs	105G5928
Copper	Rubber plugs	



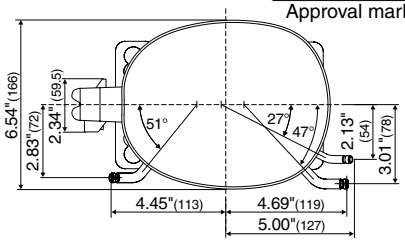
Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR/CSIR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	100°F (38°C)	F_2
	110°F (43°C)	F_2

*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).

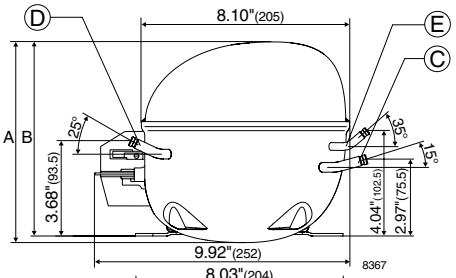
S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark



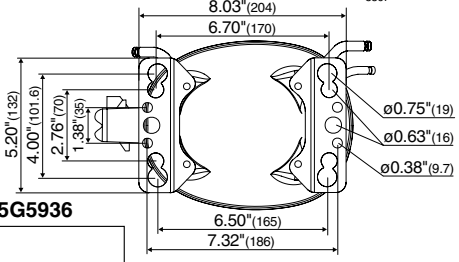
Design

Displacement	cu.in. (cm^3)	0.51 (8.35)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.0 (10.5)



Motor

Motor size	watt	290
LRA (rated after 4 sec.UL984) LST	A	34.0
Cut-in current LST	A	34.0
Resistance, main and start winding (77°F)	Ω	2.0/7.5
Approvals		UL984/CSA-C22.2



Dimensions

			105G5928	105G5936
Height		in. (mm)	A 8.00 (203)	
			B 7.76 (197)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.242-0.249 (6.2±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	474	672	842	923	1236	1621	2087	2647	3308	3681

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	421	598	748	820	1098	1439	1853	2348	2932	3261

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF9FK	112	160	200	219	293	384	495	626	782	870

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	167	200	223	233	267	302	339	379	423	447

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	3.02	3.16	3.27	3.32	3.51	3.72	3.96	4.22	4.51	4.66

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	2.84	3.36	3.77	3.96	4.63	5.37	6.16	6.98	7.81	8.23

EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FK	2.53	2.99	3.35	3.52	4.12	4.77	5.47	6.19	6.93	7.29

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF9FK	0.68	0.80	0.89	0.94	1.10	1.27	1.46	1.65	1.84	1.94

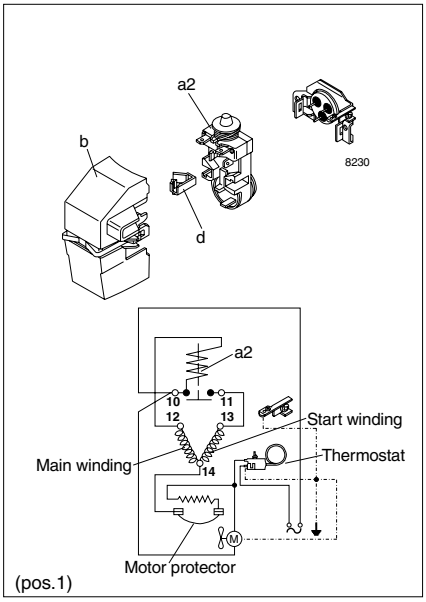
Accessories

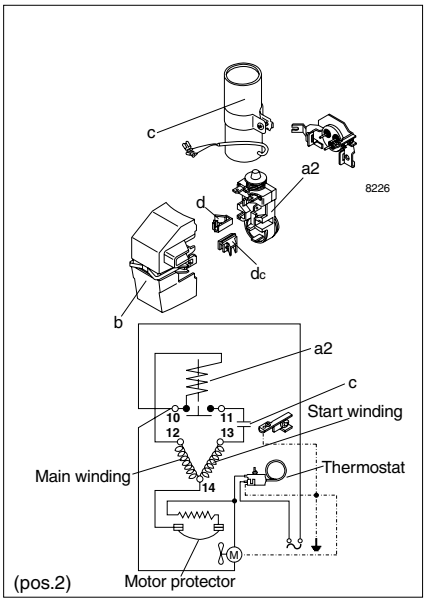
Devices	Fig.	NF9FK
Starting relay (protector incl.)	a2 **(pos.1)**	117U4133
Protector 3/4" Texas Instruments		MRT26AFZ-6
Starting relay (protector incl.)	a2 c **(pos.2)**	117U4134*
Starting capacitor 320 µF		117U5022*
Protector 3/4" Texas Instruments		MRT30AEZ-6
Cover	b	117U1021
Cord relief	d	117U0317
Cord relief capacitor	dc	117U0349
Mounting accessories **(105G5928)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947
Mounting accessories **(105G5936)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Fan cooling F_2, 115V 60Hz

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. MBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)





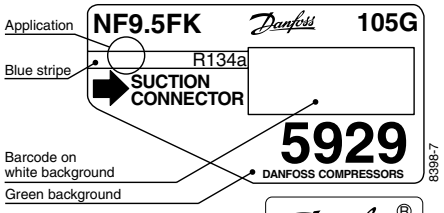
*In capillary tube systems where non-equalized pressures may occur at compressor start, or in areas with short power supply drop-outs, a starting capacitor can be used for ensuring a successful start (CSIR).

NF9.5FK
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.43.W2.22)

General

Compressor		NF9.5FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	105G5937
Copper-plated steel	Rubber plugs	105G5929
Copper	Rubber plugs	



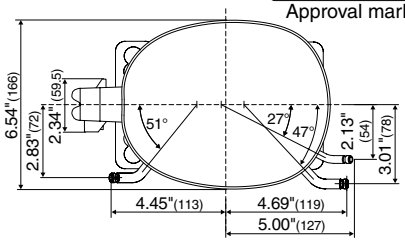
Approval mark

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR/CSIR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at		
max. ambient temperature	100°F (38°C)	F_2
	110°F (43°C)	F_2

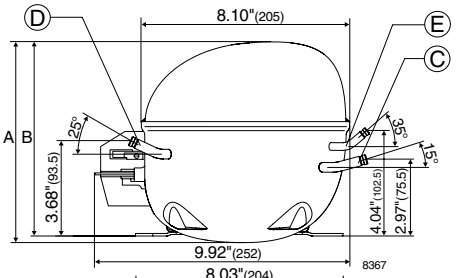
S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

*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).



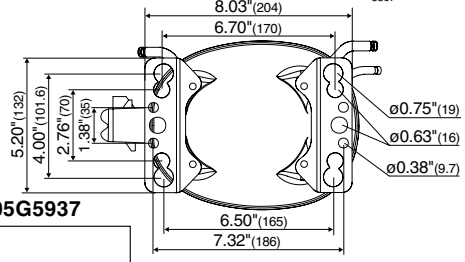
Design

Displacement	cu.in. (cm^3)	0.57 (9.40)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.0 (10.5)



Motor

Motor size	watt	360
LRA (rated after 4 sec.UL984) LST	A	35.5
Cut-in current LST	A	35.5
Resistance, main and start winding (77°F)	Ω	1.4/7.6
Approvals		UL984/CSA-C22.2



Dimensions

			105G5929	105G5937
Height		in. (mm)	A 8.00 (203)	
			B 7.76 (197)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.242-0.249 (6.2±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	533	750	935	1024	1366	1787	2298	2909	3633	4041

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	474	667	831	910	1214	1587	2039	2580	3220	3580

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF9.5FK	126	178	222	243	324	424	544	689	859	955

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	192	228	253	264	301	338	379	422	470	496

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	3.45	3.59	3.70	3.76	3.95	4.16	4.40	4.67	4.96	5.11

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	2.77	3.28	3.69	3.88	4.55	5.28	6.07	6.89	7.73	8.15

EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9.5FK	2.47	2.92	3.28	3.45	4.04	4.69	5.39	6.11	6.85	7.22

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF9.5FK	0.66	0.78	0.88	0.92	1.08	1.25	1.43	1.63	1.82	1.92

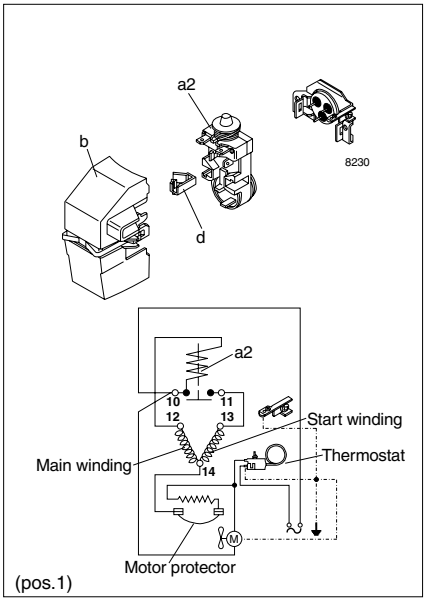
Accessories

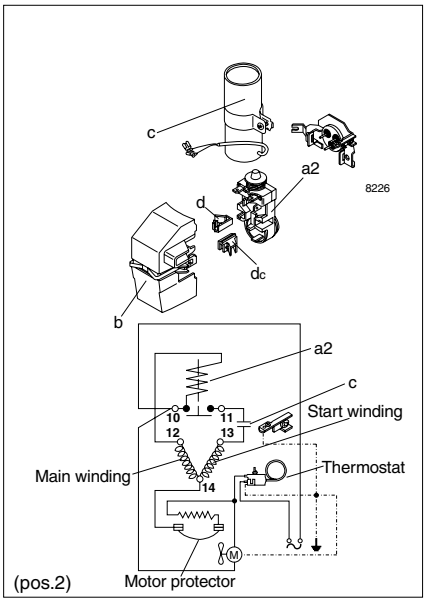
Devices	Fig.	NF9.5FK
Starting relay (protector incl.)	a2 **(pos.1)**	117U4141
Protector 3/4" Texas Instruments		MRT26AFZ-6
Starting relay (protector incl.)	a2 c **(pos.2)**	117U4142*
Starting capacitor 410 µF		117U5028*
Protector 3/4" Texas Instruments		MRT26AFZ-6
Cover	b	117U1021
Cord relief	d	117U0317
Cord relief capacitor	dc	117U0349
Mounting accessories **(105G5929)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947
Mounting accessories **(105G5937)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Fan cooling F_2, 115V 60Hz

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. MBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)





*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).

NF5.5FX
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.43.Q6.22)

General

Compressor		NF5.5FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5623
		105G5633*)
Copper	Rubber plugs	105G5627

*) Oil cooler version

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

Design

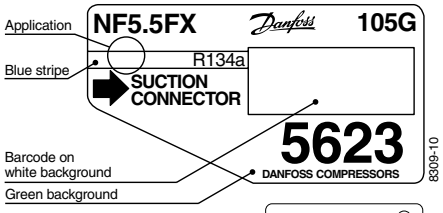
Displacement	cu.in. (cm^3)	0.37 (6.13)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	17.5 (500)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)

Motor

Motor size	watt	265
LRA (rated after 4 sec.UL984) HST	A	22.2
Cut-in current HST	A	22.2
Resistance, main and start winding (77°F)	Ω	2.0/3.1
Approvals		UL984/CSA-C22.2

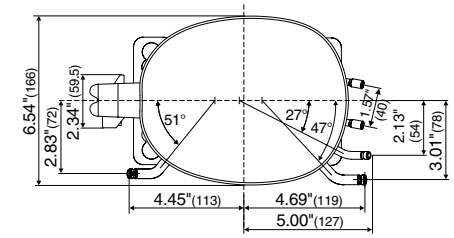
Dimensions

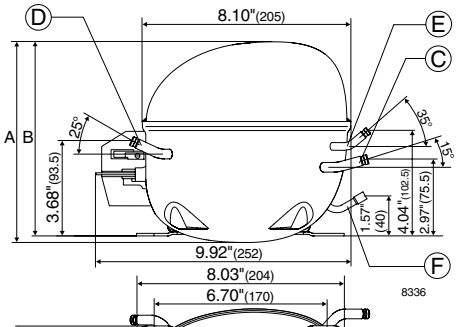
Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
Suction connector	location/I.D. in. (mm)	C	0.320-0.327 (8.2±0.09)
Process connector	location/I.D. in. (mm)	D	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E	0.252-0.259 (6.5±0.09)
Oil cooler	location/I.D. in. (mm)	F	0.252-0.259 (6.5±0.09)
Compressors on a pallet	pcs.		80

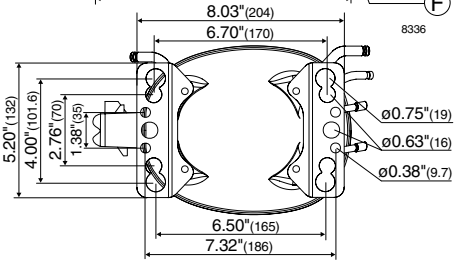


Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary







Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	298	481	627	695	950	1257	1625	2065	2588	2884

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	265	428	558	618	845	1116	1442	1831	2293	2555

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF5.5FX	70	114	148	165	225	297	384	488	611	680

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	97.4	135	159	169	200	228	255	280	305	317

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	2.18	2.34	2.45	2.50	2.67	2.85	3.04	3.24	3.44	3.54

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	3.06	3.57	3.95	4.12	4.76	5.51	6.38	7.37	8.49	9.09

EER at MBP conditions (ASHRAE) **Btu/Wh**

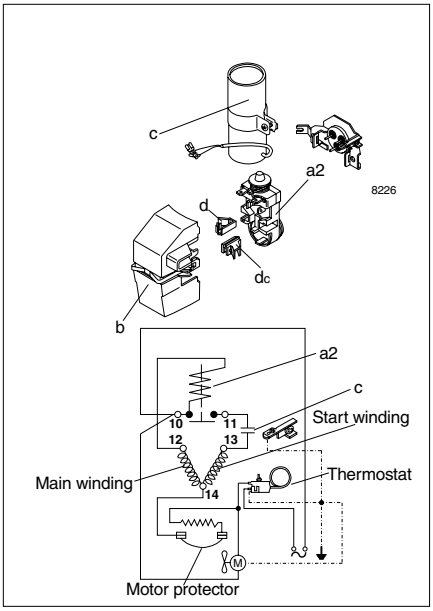
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF5.5FX	2.72	3.17	3.51	3.66	4.23	4.90	5.66	6.54	7.52	8.05

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF5.5FX	0.73	0.85	0.93	0.98	1.13	1.30	1.50	1.74	2.00	2.13

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

Devices	Fig.	NF5.5FX
Starting relay (protector incl.)	a2	117U4127
Protector 3/4" Texas Instr.		MRP36AEN-6
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

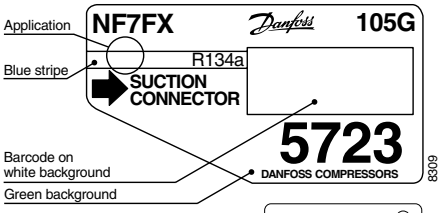
NF7FX
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.43.X3.22)

General

Compressor		NF7FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5723
		105G5733*)
Copper	Rubber plugs	105G5727

*) Oil cooler version



Approval mark

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

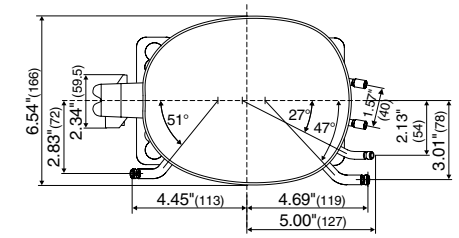
Displacement	cu.in. (cm^3)	0.44 (7.27)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	17.5 (500)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)

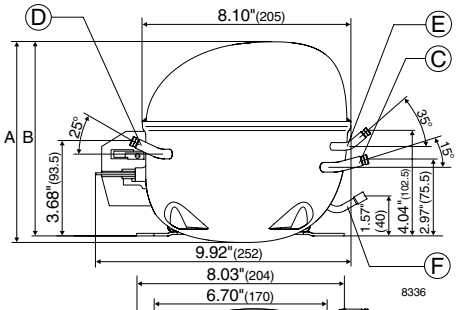
Motor

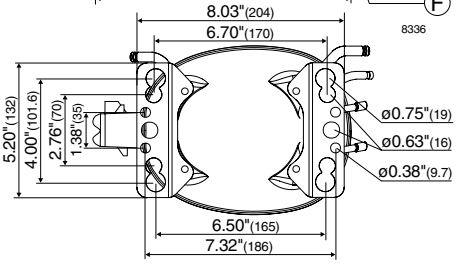
Motor size	watt	310
LRA (rated after 4 sec.UL984) HST	A	28.0
Cut-in current HST	A	28.0
Resistance, main and start winding (77°F)	Ω	1.9/6.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
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







Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	414	618	782	858	1147	1495	1918	2428	3037	3383

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	368	550	695	763	1019	1328	1703	2153	2692	2997

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7FX	98	147	186	204	272	355	454	574	717	799

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	145	181	205	215	247	279	310	341	372	388

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	2.97	3.14	3.26	3.32	3.50	3.70	3.90	4.11	4.33	4.45

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	2.85	3.42	3.82	4.00	4.63	5.36	6.19	7.12	8.16	8.72

EER at MBP conditions (ASHRAE) **Btu/Wh**

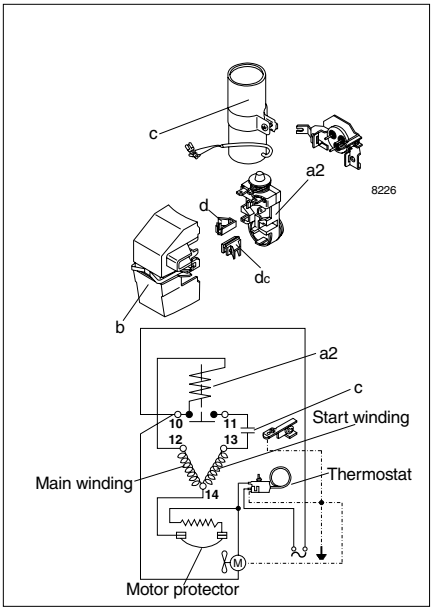
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7FX	2.54	3.04	3.39	3.55	4.12	4.76	5.49	6.32	7.24	7.73

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7FX	0.67	0.81	0.90	0.94	1.10	1.27	1.46	1.68	1.92	2.05

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

Devices	Fig.	NF7FX
Starting relay (protector incl.)	a2	117U4061
Protector 3/4" Texas Instr.		MRP30AEN-6
Protector 3/4" Electrica		T 0772/06
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

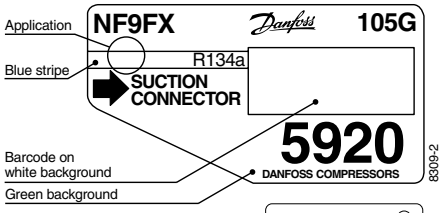
NF9FX
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.43.R7.22)

General

Compressor		NF9FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5920
		105G5930*)
Copper	Rubber plugs	105G5927

*) Oil cooler version



Approval mark

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	LBP: -20 to 0 (-28.9 to -17.8) MBP: 0 to 45 (-17.8 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	LBP: F_2 MBP: O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

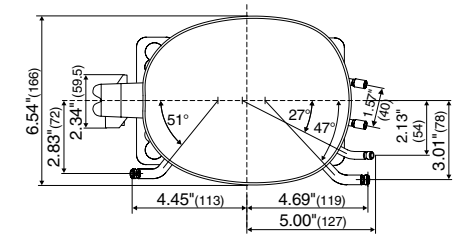
Displacement	cu.in. (cm^3)	0.51 (8.35)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	17.5 (500)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)

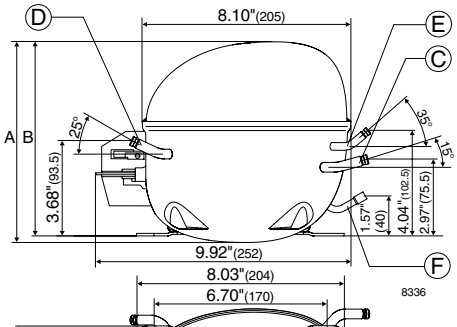
Motor

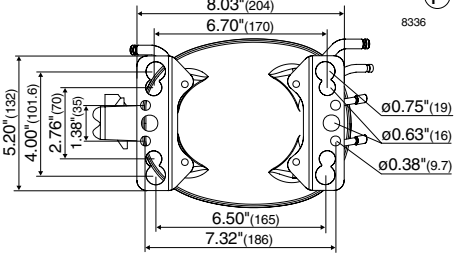
Motor size	watt	310
LRA (rated after 4 sec.UL984) HST	A	28.0
Cut-in current HST	A	28.0
Resistance, main and start winding (77°F)	Ω	1.9/6.6
Approvals		UL984/CSA-C22.2

Dimensions

Height		in. (mm)	A	7.76 (197)
			B	7.52 (191)
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







Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	674	851	935	1261	1662	2148	2731	3420	3808

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	599	756	831	1121	1476	1907	2422	3031	3374

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
NF9FX	160	202	222	299	394	509	646	809	900

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	213	235	245	277	311	347	386	429	452

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	3.32	3.44	3.50	3.69	3.92	4.17	4.45	4.75	4.91

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	3.17	3.62	3.82	4.55	5.34	6.19	7.07	7.98	8.43

EER at MBP conditions (ASHRAE) **Btu/Wh**

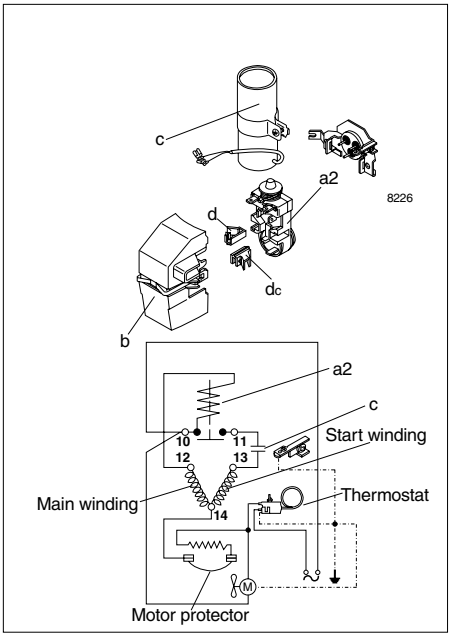
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF9FX	2.82	3.22	3.40	4.04	4.75	5.49	6.28	7.07	7.47

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
NF9FX	0.75	0.86	0.91	1.08	1.26	1.46	1.67	1.88	1.99

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

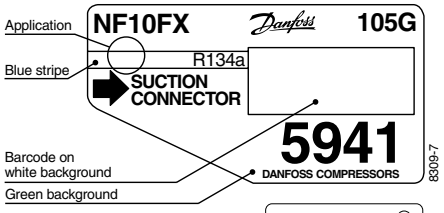
Devices	Fig.	NF9FX
Starting relay (protector incl.)	a2	117U4129
Protector 3/4" Texas Instr.		MRT22AFZ-6
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

NF10FX
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.43.X4.22)

General

Compressor		NF10FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5941
Copper	Rubber plugs	105G5946



Approval mark

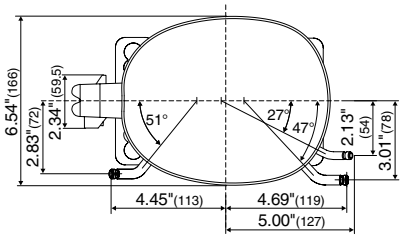
Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	LBP: -20 to 0 (-28.9 to -17.8) MBP: 0 to 45 (-17.8 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	LBP: F_2 MBP: F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

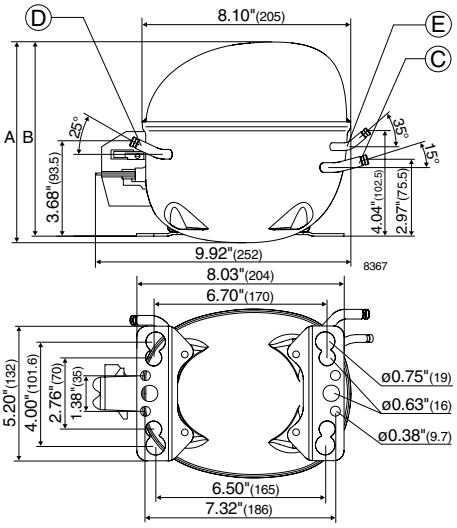
Design

Displacement	cu.in. (cm^3)	0.62 (10.09)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	16.1 (460)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)



Motor

Motor size	watt	330
LRA (rated after 4 sec.UL984) HST	A	30.0
Cut-in current HST	A	30.0
Resistance, main and start winding (77°F)	Ω	1.7/5.4
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80

Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	746	950	1046	1411	1854	2391	3036	3805	4240

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	663	845	930	1254	1647	2123	2693	3372	3756

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
NF10FX	178	227	249	336	440	567	719	899	1001

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	225	250	261	302	345	391	438	487	512

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	3.48	3.64	3.71	3.97	4.25	4.55	4.87	5.21	5.39

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	3.32	3.80	4.00	4.68	5.38	6.12	6.93	7.81	8.29

EER at MBP conditions (ASHRAE) **Btu/Wh**

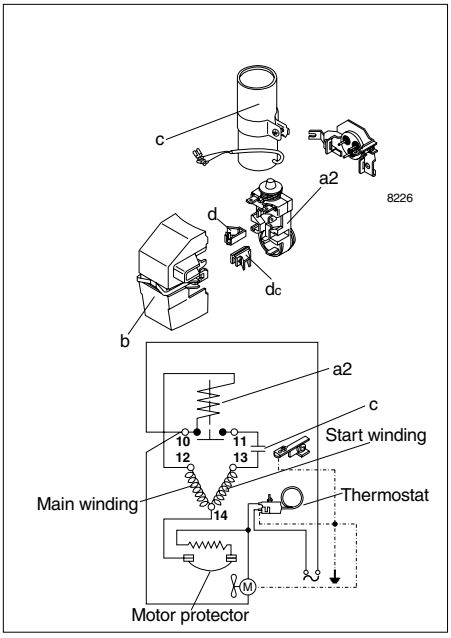
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF10FX	2.95	3.38	3.56	4.16	4.78	5.43	6.15	6.93	7.34

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-20	-13	-10	0	10	20	30	40	45
NF10FX	0.79	0.91	0.95	1.11	1.27	1.45	1.63	1.84	1.95

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

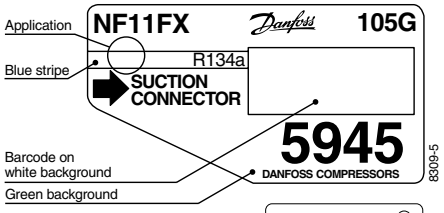
Devices	Fig.	NF10FX
Starting relay (protector incl.)	a2	117U4129
Protector 3/4" Texas Instr.		MRT22AFZ-6
Starting capacitor 320 µF	c	117U5022
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

NF11FX
Standard Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.43.Y4.22)

General

Compressor		NF11FX
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5945
Copper	Rubber plugs	105G5947



Approval mark

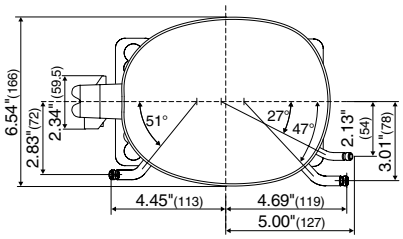
Application

Application		MBP
Evaporating temperature range	°F (°C)	10 to 45 (-12.2 to 7.2)
Voltage range	V/Hz	95 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_2

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

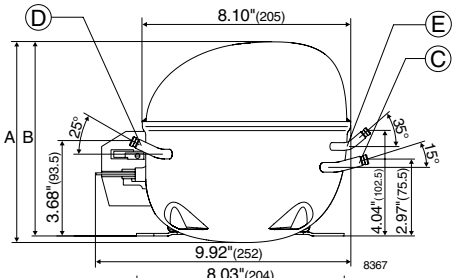
Design

Displacement	cu.in. (cm^3)	0.68 (11.15)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)



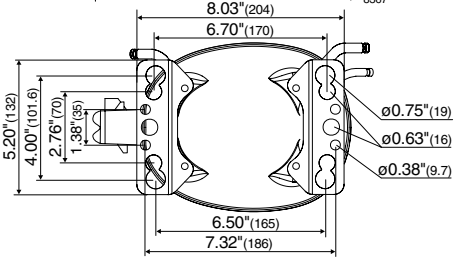
Motor

Motor size	watt	530
LRA (rated after 4 sec.UL984) HST	A	43.1
Cut-in current HST	A	43.1
Resistance, main and start winding (77°F)	Ω	1.0/3.6
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	10	20	30	40	41	45
Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
NF11FX	1755	2271	2890	3627	3708	4044

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
Comp.\°F	10	20	30	40	41	45
NF11FX	469	606	771	967	988	1078

Power consumption **watt**

Comp.\°F	10	20	30	40	41	45
Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
NF11FX	390	441	495	550	556	578

Current consumption **A**

Comp.\°F	10	20	30	40	41	45
Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
NF11FX	5.45	5.81	6.19	6.60	6.64	6.81

EER (ASHRAE) **Btu/Wh**

Comp.\°F	10	20	30	40	41	45
Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
NF11FX	4.50	5.14	5.84	6.59	6.67	7.00

COP (EN 12900/CECOMAF) **W/W**

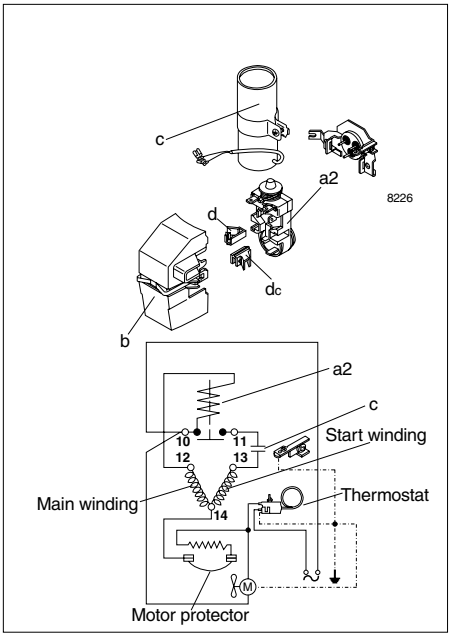
Comp.\°C	-12.2	-6.7	-1.1	4.4	5	7.2
Comp.\°F	10	20	30	40	41	45
NF11FX	1.20	1.37	1.55	1.75	1.77	1.85

Test conditions	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	95°F (35°C)	32°C (90°F)
Liquid temperature	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz

Accessories

Devices	Fig.	NF11FX
Starting relay (protector incl.)	a2	117U4123
Protector 3/4" Texas Instr.		MRT16AFZ-6
Starting capacitor 410 µF	c	117U5028
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

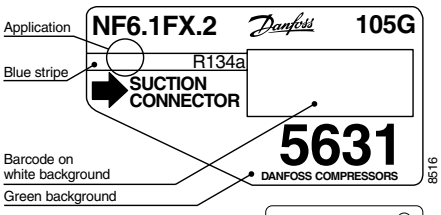


NF6.1FX.2
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CH.43.W2.22)

General

Compressor		NF6.1FX.2
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5631
Copper	Rubber plugs	



Approval mark

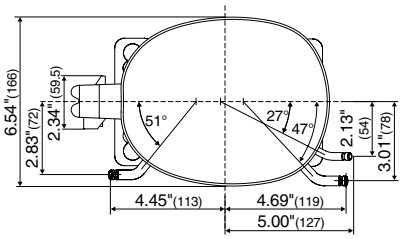
Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

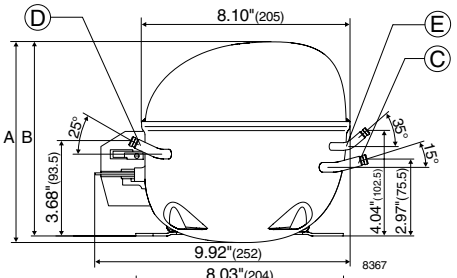
Design

Displacement	cu.in. (cm^3)	0.37 (6.13)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)



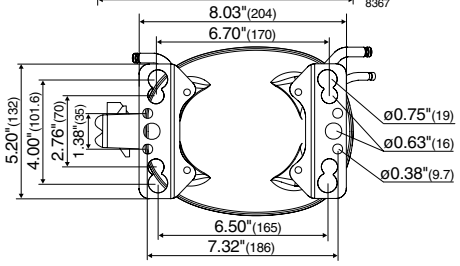
Motor

Motor size	watt	265
LRA (rated after 4 sec.UL984) LST	A	22.2
Cut-in current LST	A	22.2
Resistance, main and start winding (77°F)	Ω	2.0/3.1
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				709			1686			

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				630			1496			

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF6.1FX.2				168			398			

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				163			240			

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				2.50			2.90			

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				4.35			7.03			

EER at MBP conditions (ASHRAE) **Btu/Wh**

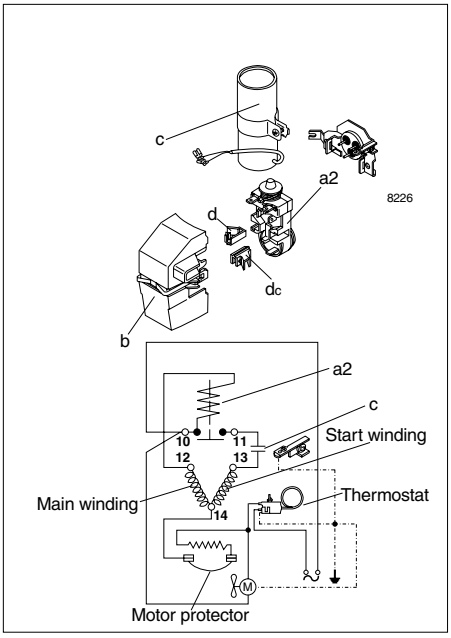
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF6.1FX.2				3.87			6.23			

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF6.1FX.2				1.03			1.66			

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz
preliminary data



Accessories

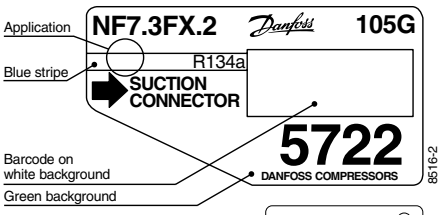
Devices	Fig.	NF6.1FX.2
Starting relay (protector incl.)	a2	117U4127
Protector 3/4" Texas Instr.		MRP36AEN-6
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

NF7.3FX.2
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CH.43.X2.22)

General

Compressor		NF7.3FX.2
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5722
Copper	Rubber plugs	



Approval mark

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

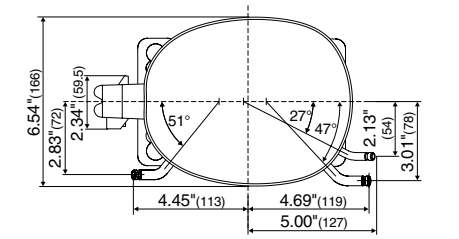
Displacement	cu.in. (cm^3)	0.44 (7.27)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)

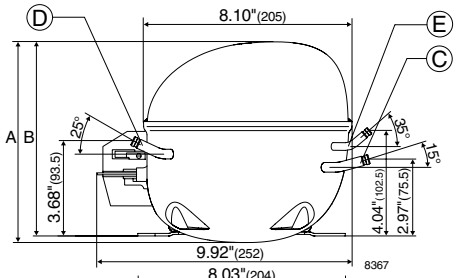
Motor

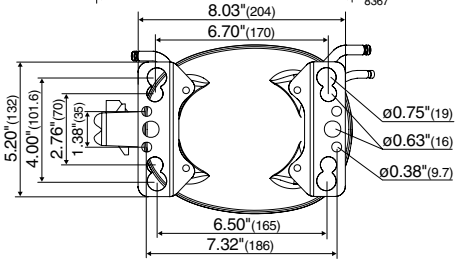
Motor size	watt	310
LRA (rated after 4 sec.UL984) LST	A	28.0
Cut-in current LST	A	28.0
Resistance, main and start winding (77°F)	Ω	1.9/6.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80







Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				834			1994			

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				742			1771			

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7.3FX.2				198			472			

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				197			293			

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				3.20			3.70			

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				4.29			6.81			

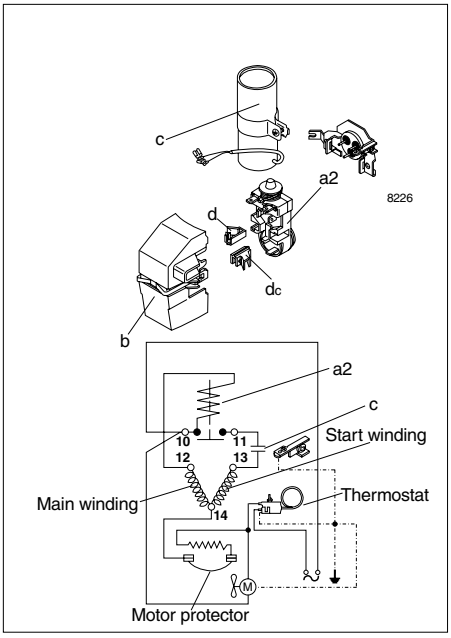
EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF7.3FX.2				3.78			6.04			

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF7.3FX.2				1.01			1.61			

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)
Fan cooling F_1, 115V 60Hz			
preliminary data			



Accessories

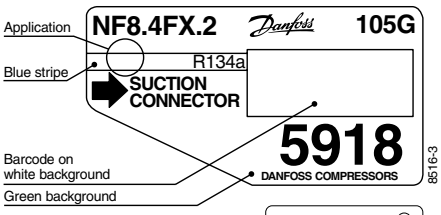
Devices	Fig.	NF7.3FX.2
Starting relay (protector incl.)	a2	117U4061
Protector 3/4" Texas Instr.		MRP30AEN-6
Protector 3/4" Electrica		T 0772/06
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

NF8.4FX.2
Standard Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CH.43.Y2.22)

General

Compressor		NF8.4FX.2
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5918
Copper	Rubber plugs	



Approval mark

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	LBP: -20 to 0 (-28.9 to -17.8) MBP: 0 to 45 (-17.8 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	LBP: F_2 MBP: O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

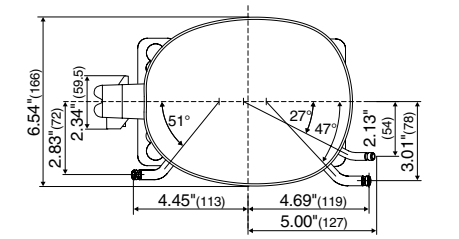
Displacement	cu.in. (cm^3)	0.51 (8.35)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	22.0 (10.0)

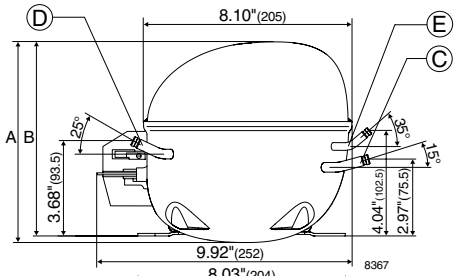
Motor

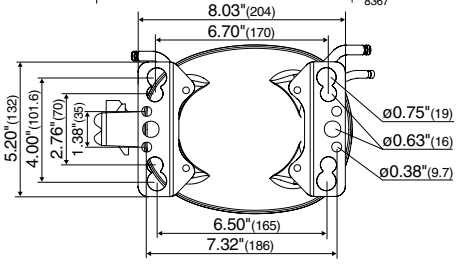
Motor size	watt	310
LRA (rated after 4 sec.UL984) LST	A	28.0
Cut-in current LST	A	28.0
Resistance, main and start winding (77°F)	Ω	1.9/6.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.76 (197)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80







Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				954			2264			

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				848			2010			

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF8.4FX.2				227			536			

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				223			336			

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				3.40			4.00			

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				4.28			6.73			

EER at MBP conditions (ASHRAE) **Btu/Wh**

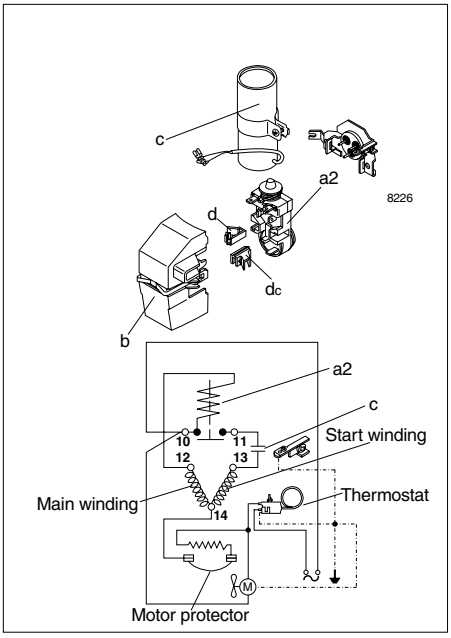
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
NF8.4FX.2				3.80			5.98			

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
NF8.4FX.2				1.02			1.60			

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz
preliminary data



Accessories

Devices	Fig.	NF8.4FX.2
Starting relay (protector incl.)	a2	117U4129
Protector 3/4" Texas Instr.		MRT22AFZ-6
Starting capacitor 280 µF	c	117U5025
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief for capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one comp.	5/8 (16)	118-1946
Bolt joint for one comp.	3/4 (19)	118-1949
Snap-on for one comp.	5/8 (16)	118-1947

FF8.5FK
Standard Compressor
R134a
115V 60Hz

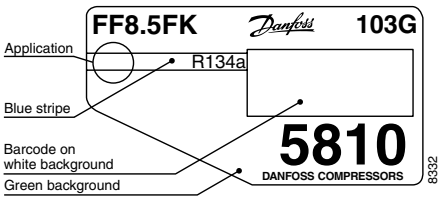
Data Sheet (Replaces CD.43.U3.22)

General

Compressor (CU-plated steel connectors)	**FF8.5FK**
Codenumber	103G5810

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_2



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

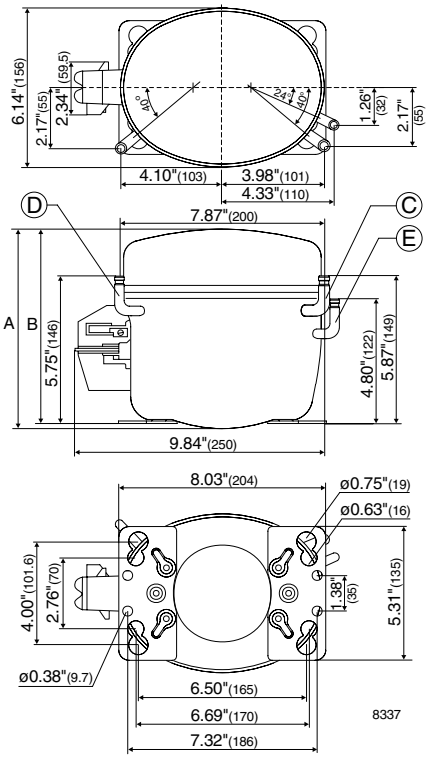
Displacement	cu.in. (cm^3)	0.48 (7.95)
Oil quantity	fl.oz. (cm^3)	13.5 (400)
Maximum refrigerant charge	oz. (g)	32.0 (900)
Free gas vol. in compressor housing	fl.oz. (cm^3)	47.3 (1400)
Weight without electrical equipment	lbs. (kg)	23.3 (10.6)

Motor

Motor size	watt	255
LRA (rated after 4 sec.UL984) LST	A	29.4
Cut-in current LST	A	29.4
Resistance, main and start winding (77°F)	Ω	2.0/9.1
Approvals		UL984/CSA-C22.2

Dimensions

Height		in. (mm)	A	7.72 (196)
			B	7.52 (191)
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)
Compressors on a pallet		pcs.		80



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	235	413	563	635	911	1250	1662	2157	2745	3078

Capacity at MBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	209	367	500	564	809	1110	1475	1914	2433	2726

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
FF8.5FK	55	97	132	149	215	295	392	509	647	725

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	131	159	181	191	226	264	306	350	396	420

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	2.61	2.77	2.90	2.96	3.18	3.43	3.72	4.04	4.40	4.59

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	1.79	2.59	3.11	3.32	4.03	4.73	5.44	6.17	6.93	7.32

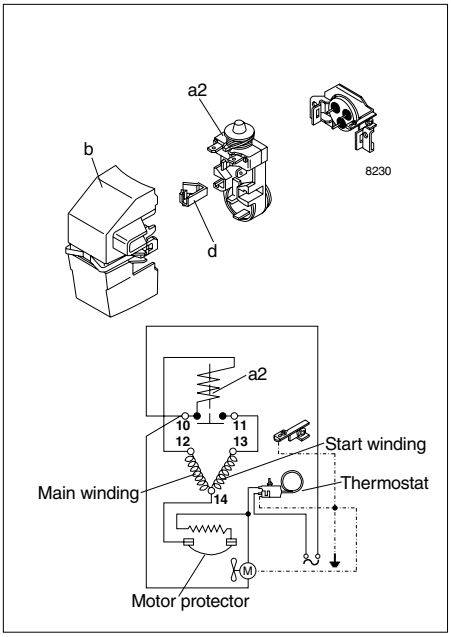
EER at MBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
FF8.5FK	1.59	2.30	2.76	2.95	3.58	4.20	4.83	5.47	6.14	6.49

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45
FF8.5FK	0.42	0.61	0.73	0.78	0.95	1.11	1.28	1.45	1.63	1.72

Test conditions	ASHRAE (LBP)	ASHRAE (MBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)
Fan cooling F_2, 115V 60Hz			



Accessories

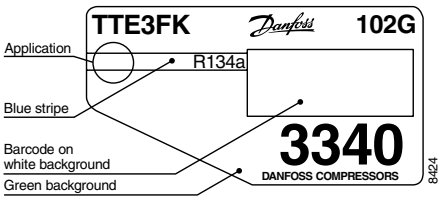
Devices	Fig.	FF8.5FK
Starting relay (protector incl.)	a2	117U4062
Protector 3/4" Texas Instr.		MRP26EL-6
Cover	b	117U1021
Cord relief	d	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

TTE3FK
Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.42.V3.22)

General

Compressor		TTE3FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3340
Copper	Rubber plugs	102G3341



Approval mark

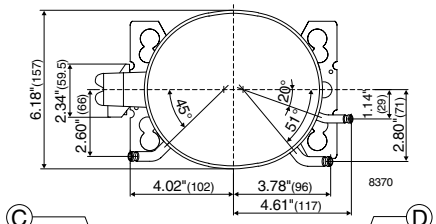
Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 23 (-35 to -5)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR/RSCR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

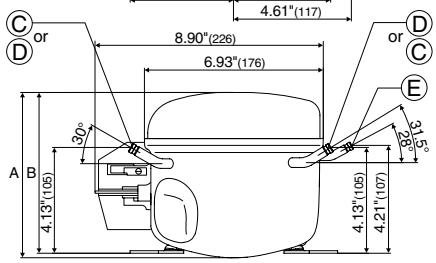
Design

Displacement	cu.in. (cm^3)	0.19 (3.13)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	54.2 (1600)
Weight without electrical equipment	lbs. (kg)	16.5 (7.5)



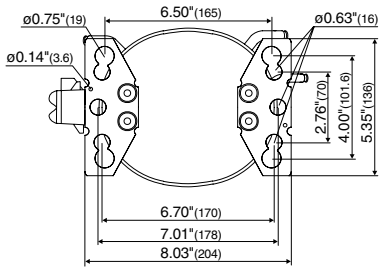
Motor

Motor size	watt	98
LRA (rated after 4 sec.UL984) LST	A	6.0
Cut-in current LST	A	16.0
Resistance, main and start winding (77°F)	Ω	5.4/4.2
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet	pcs.		125



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TTE3FK	110	181	248	280	400	550	650

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	20
TTE3FK	26	42	58	66	94	130	154

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TTE3FK			68	72			

Current consumption **A**

1Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TTE3FK			1.13	1.15			

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
TTE3FK			3.63	3.90			

COP (EN 12900/CECOMAF) **W/W**

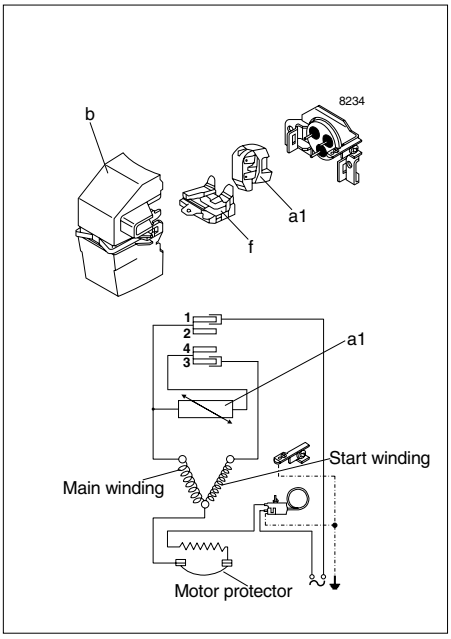
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	20
TTE3FK			0.86	0.92			

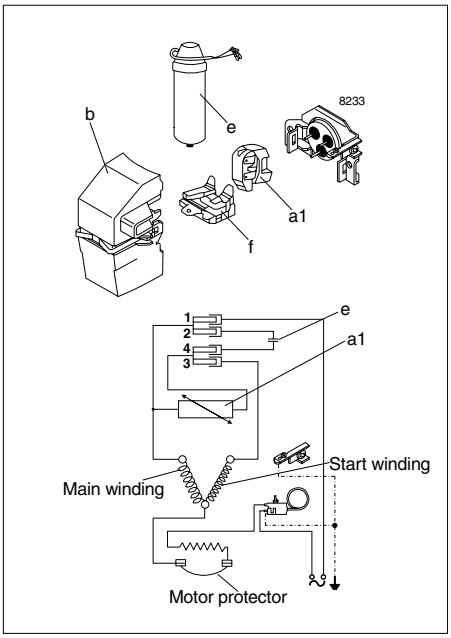
Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl., preliminary data

Accessories

Devices	Fig.	TTE3FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (w. RC) (alternative)	117U6106
		J506-A120-A320
PTC starting device (Siemens) with reduced loss of energy	a1 (w.o. RC) (alternative)	117U6105
		J506-A120-A120
Cover	b	117U1026
Run capacitor 15 µF (optional)	e	117-7118
Protector (Texas Instruments)	f	117U3313
		TI-4TM265NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947



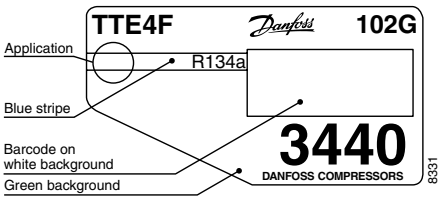


TTE4F
Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.W3.22)

General

Compressor		TTE4F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3440
Copper	Rubber plugs	102G3441



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

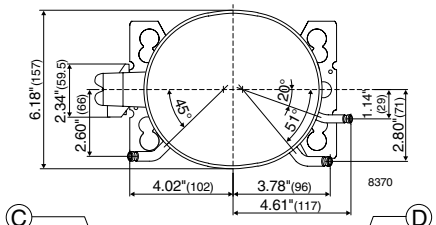
*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

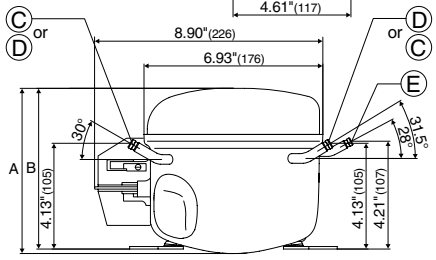
Design

Displacement	cu.in. (cm^3)	0.23 (3.86)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.6 (1790)
Weight without electrical equipment	lbs. (kg)	16.5 (7.5)



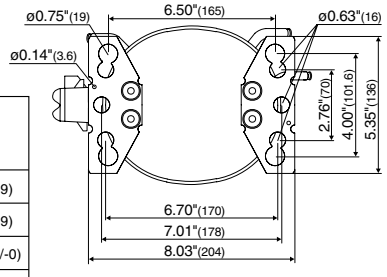
Motor

Motor size	watt	125
LRA (rated after 4 sec.UL984) LST	A	8.3
Cut-in current LST	A	17.7
Resistance, main and start winding (77°F)	Ω	4.2/4.0
Approvals		UL984/CSA-C22.2



Dimensions

			102G3440	102G3441
Height	in. (mm)	A	6.81 (173)	
		B	6.65 (169)	
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Process connector	location/I.D. in. (mm)	D	0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D. in. (mm)	E	0.202-0.205 (5.0+0.12/0.20)	0.189-0.193 (4.9+0.10/-0)
Compressors on a pallet	pcs.		125	



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTE4F	164	269	356	397	553	740	825

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTE4F	39	65	85	95	132	177	197

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTE4F	65	79	89	94	110	126	133

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTE4F	1.13	1.21	1.26	1.29	1.39	1.50	1.55

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTE4F	2.54	3.40	3.98	4.23	5.04	5.86	6.19

COP (EN 12900/CECOMAF) **W/W**

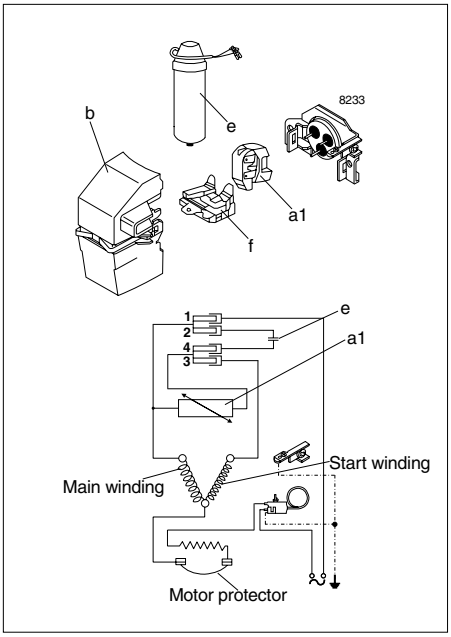
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTE4F	0.61	0.82	0.95	1.01	1.21	1.40	1.48

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	TTE4F
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3304
		TI-4TM302NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947



NLE5.5F
Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.43.B4.22)

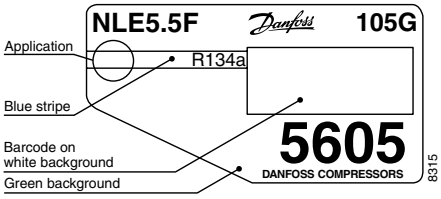
General

Compressor (CU-plated steel connectors)	**NLE5.5F**
Codenumber	105G5605

Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

*run capacitor compulsory



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

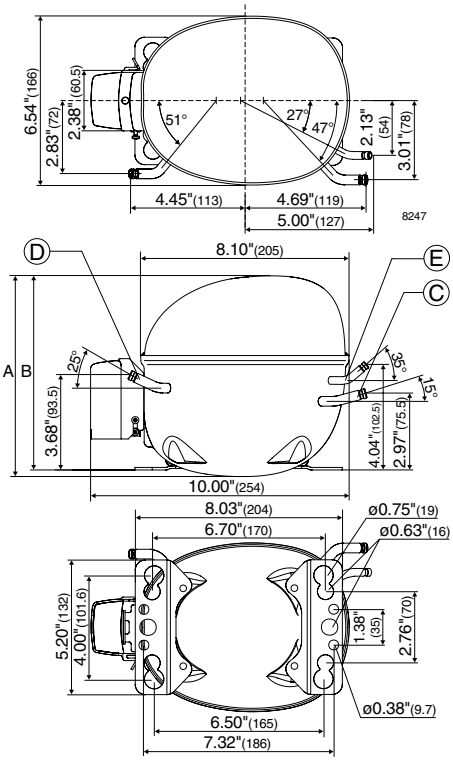
Displacement	cu.in. (cm^3)	0.37 (6.13)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	25.0 (11.4)

Motor

Motor size	watt	150
LRA (rated after 4 sec.UL984) LST	A	11.3
Cut-in current LST	A	21.8
Resistance, main and start winding (77°F)	Ω	3.0/3.7
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.76 (198)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE5.5F	298	458	603	674	936	1251	1388

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE5.5F	70	109	143	160	222	297	329

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE5.5F	86	109	126	134	160	189	200

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE5.5F	0.77	0.96	1.11	1.18	1.41	1.66	1.75

EER (ASHRAE) **Btu/Wh**

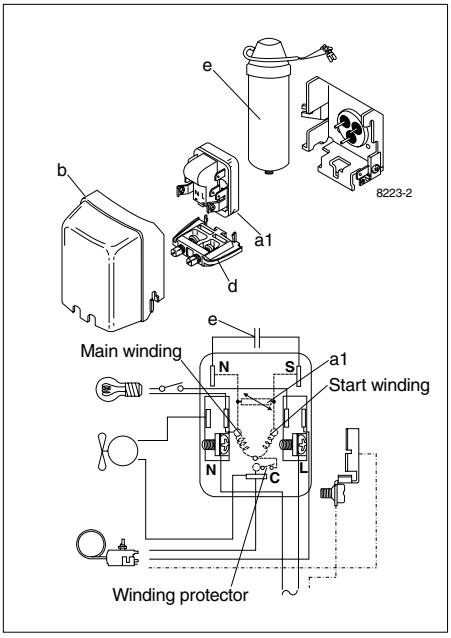
Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE5.5F	3.46	4.22	4.79	5.04	5.84	6.63	6.93

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE5.5F	0.82	1.00	1.14	1.20	1.39	1.57	1.64

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.



Accessories

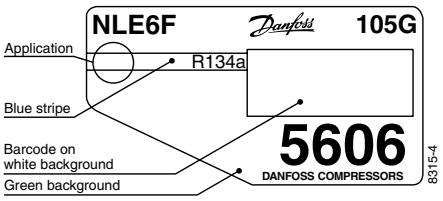
Devices	Fig.	NLE5.5F
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0017
3/16 in. (4.8 mm) spades		103N0024
Cover	b	103N2011
Cord relief	d	103N1010
Run capacitor 15 µF (compulsory)		
1/4 in. (6.3 mm) spades	e	117-7118
3/16 in. (4.8 mm) spades		117-7120
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

NLE6F
Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.43.Y1.22)

General

Compressor (CU-plated steel connectors)	NLE6F
Codenumber	105G5606
Codenumber	105G5609



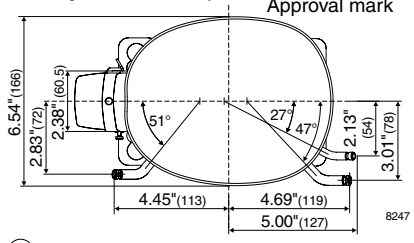
Application

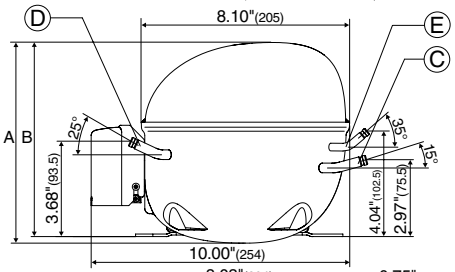
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

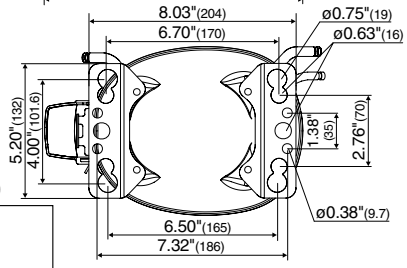
*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark







Design

Displacement	cu.in. (cm^3)	0.40 (6.58)
Oil quantity	fl.oz. (cm^3)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	25.0 (11.4)

Motor

Motor size	watt	150
LRA (rated after 4 sec.UL984) LST	A	11.3
Cut-in current LST	A	21.8
Resistance, main and start winding (77°F)	Ω	3.0/3.7
Approvals		UL984/CSA-C22.2

Dimensions

			105G5606	105G5609
Height		in. (mm)	A 7.76 (198)	
			B 7.52 (191)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.252-0.259 (6.5±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE6F	375	514	654	726	1005	1360	1519

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE6F	89	121	155	172	238	322	360

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE6F	99	120	136	143	168	195	207

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE6F	0.82	1.04	1.19	1.26	1.48	1.71	1.80

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE6F	3.80	4.29	4.81	5.07	5.98	6.96	7.35

COP (EN 12900/CECOMAF) **W/W**

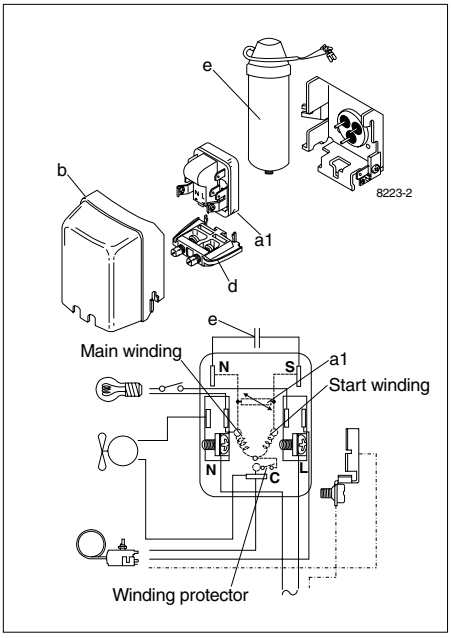
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE6F	0.90	1.01	1.14	1.20	1.41	1.65	1.74

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NLE6F
PTC starting device 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	a1	 103N0017 103N0024
Cover	b	103N2011
Cord relief	d	103N1010
Run capacitor 15 µF (compulsory) 1/4 in. (6.3 mm) spades 3/16 in. (4.8 mm) spades	e	 117-7118 117-7120
Mounting accessories Bolt joint for one compressor Bolt joint in quantities Snap-on in quantities	Ø in. (mm) 5/8 (16) 5/8 (16) 5/8 (16)	 118-1917 118-1918 118-1919

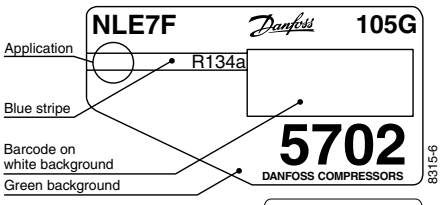


NLE7F
Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.43.Z1.22)

General

Compressor (CU-plated steel connectors)	NLE7F
Codenumber (large baseplate)	105G5702
Codenumber (small baseplate)	105G5703



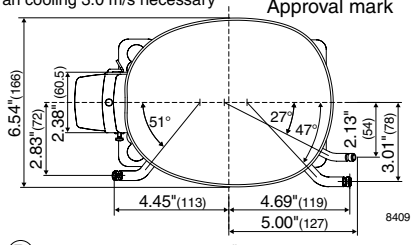
Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

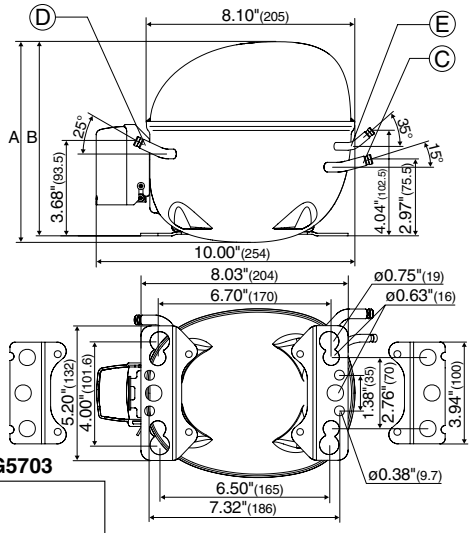


Design

Displacement	cu.in. (cm³)	0.44 (7.30)
Oil quantity	fl.oz. (cm³)	10.8 (320)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	25.0 (11.4)

Motor

Motor size	watt	170
LRA (rated after 4 sec.UL984) LST	A	13.2
Cut-in current LST	A	22.5
Resistance, main and start winding (77°F)	Ω	2.6/4.1
Approvals		UL984/CSA-C22.2



Dimensions

			105G5702	105G5703
Height		in. (mm)	A 7.76 (198)	
			B 7.52 (191)	
Suction connector	location/I.D.	in. (mm)	C 0.320-0.327 (8.2±0.09)	0.242-0.249 (6.2±0.09)
Process connector	location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector	location/I.D.	in. (mm)	E 0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet		pcs.	80	

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE7F	435	590	743	821	1120	1498	1666

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE7F	104	141	177	195	266	356	396

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE7F	113	136	154	162	192	224	238

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE7F	1.05	1.23	1.39	1.46	1.72	2.00	2.12

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NLE7F	3.83	4.35	4.83	5.06	5.85	6.68	7.01

COP (EN 12900/CECOMAF) **W/W**

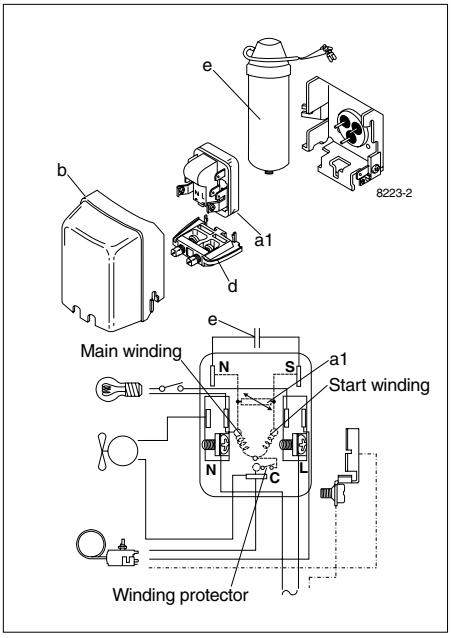
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NLE7F	0.92	1.04	1.15	1.20	1.39	1.59	1.66

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NLE7F
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0017
3/16 in. (4.8 mm) spades		103N0024
Cover	b	103N2011
Cord relief	d	103N1010
Run capacitor 15 µF (compulsory)		
1/4 in. (6.3 mm) spades	e	117-7118
3/16 in. (4.8 mm) spades		117-7120
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

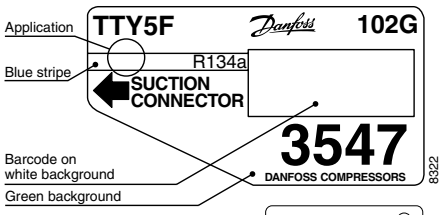


TTY5F
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.V3.22)

General

Compressor		TTY5F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3547
Copper	Rubber plugs	102G3549



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

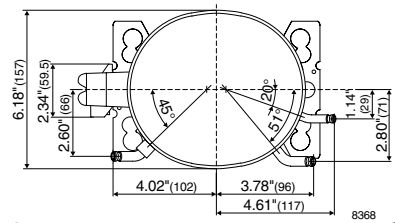
*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

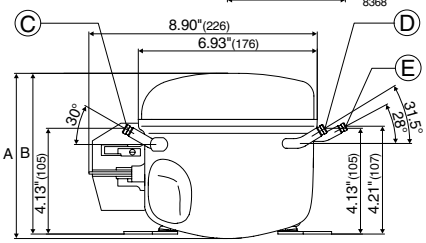
Design

Displacement	cu.in. (cm^3)	0.34 (5.54)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.6 (1790)
Weight without electrical equipment	lbs. (kg)	17.6 (8.0)



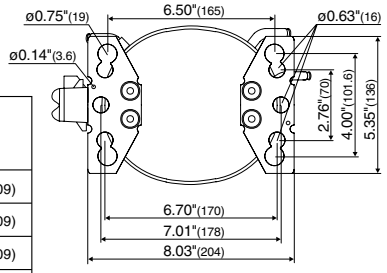
Motor

Motor size	watt	180
LRA (rated after 4 sec.UL984) LST	A	11.3
Cut-in current LST	A	21.5
Resistance, main and start winding (77°F)	Ω	3.2/3.7
Approvals		UL984/CSA-C22.2



Dimensions

		102G3547	102G3549
Height	in. (mm)	A 6.81 (173)	
		B 6.65 (169)	
Suction connector location/I.D.	in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Process connector location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector location/I.D.	in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.252-0.259 (6.5±0.09)
Compressors on a pallet	pcs.	125	



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY5F	275	412	532	590	814	1091	1218

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTY5F	66	99	128	141	195	261	291

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY5F	86	105	119	126	147	171	182

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY5F	0.92	1.07	1.18	1.23	1.42	1.62	1.71

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY5F	3.21	3.91	4.46	4.70	5.54	6.38	6.71

COP (EN 12900/CECOMAF) **W/W**

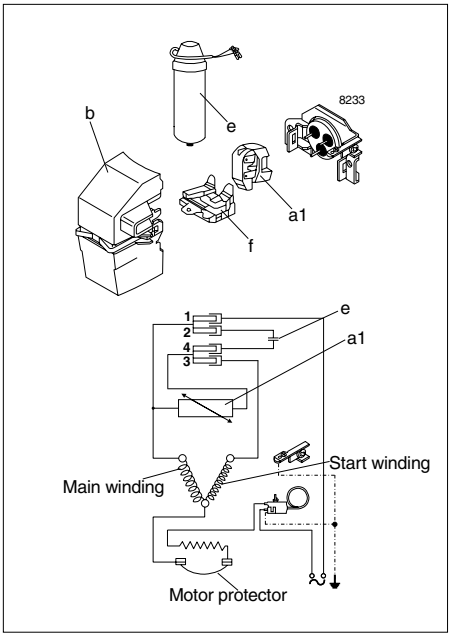
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTY5F	0.77	0.94	1.07	1.13	1.33	1.53	1.60

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	TTY5F
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3302
		TI-4TM314NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

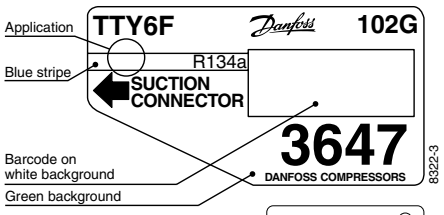


TTY6F
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CG.42.R1.22)

General

Compressor		TTY6F
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	102G3647
Copper	Rubber plugs	



Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

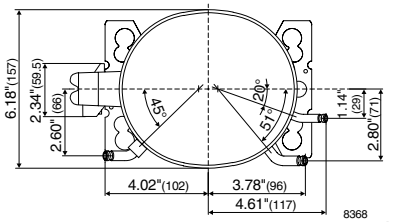
*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

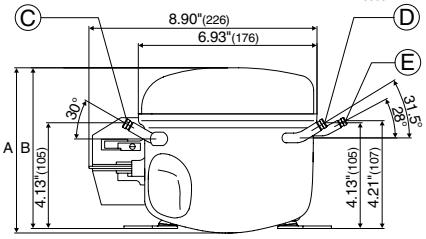
Design

Displacement	cu.in. (cm^3)	0.35 (5.70)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.7 (1790)
Weight without electrical equipment	lbs. (kg)	17.6 (8.0)



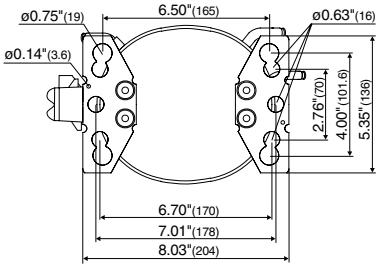
Motor

Motor size	watt	200
LRA (rated after 4 sec.UL984) LST	A	14.4
Cut-in current LST	A	25.2
Resistance, main and start winding (77°F)	Ω	2.8/3.2
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.81 (173)
		B	6.65 (169)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY6F	294	437	555	611	825	1084	1202

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTY6F	70	105	133	146	197	259	287

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY6F	91	112	127	133	154	178	189

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY6F	1.05	1.18	1.29	1.34	1.52	1.73	1.81

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TTY6F	3.21	3.88	4.39	4.61	5.36	6.09	6.36

COP (EN 12900/CECOMAF) **W/W**

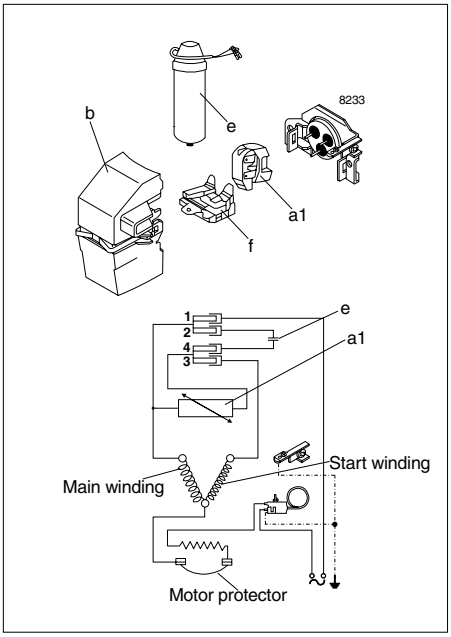
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TTY6F	0.77	0.93	1.05	1.10	1.28	1.46	1.52

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	TTY6F
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3303
		TI-4TM414KFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

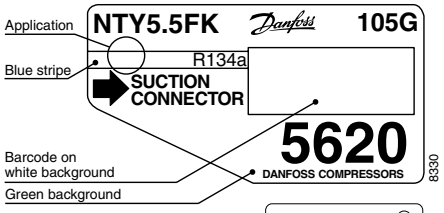


NTY5.5FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.43.S3.22)

General

Compressor		NTY5.5FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5620
Copper	Rubber plugs	



Approval mark

Application

Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

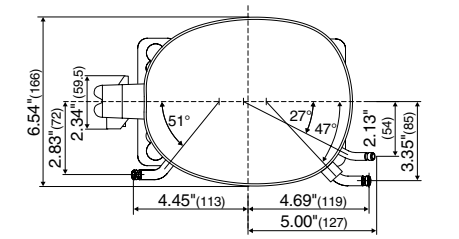
Displacement	cu.in. (cm^3)	0.37 (6.13)
Oil quantity	fl.oz. (cm^3)	9.9 (290)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.8 (10.8)

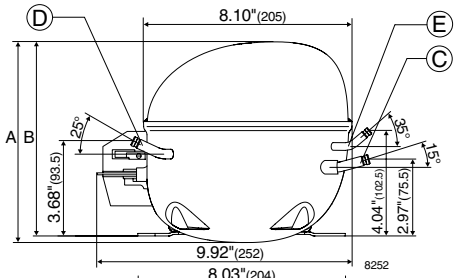
Motor

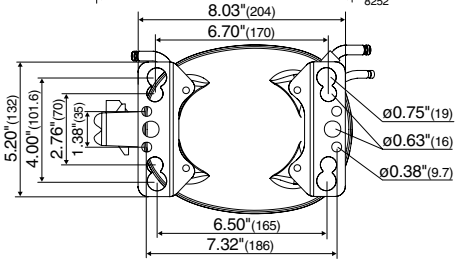
Motor size	watt	190
LRA (rated after 4 sec.UL984) LST	A	10.5
Cut-in current LST	A	20.4
Resistance, main and start winding (77°F)	Ω	3.1/4.0
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80







Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY5.5FK	389	516	637	697	938	1247	1391

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY5.5FK	93	122	151	165	222	295	333

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY5.5FK	100	118	132	139	164	193	207

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY5.5FK	0.90	1.06	1.19	1.25	1.47	1.74	1.86

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY5.5FK	3.91	4.39	4.82	5.02	5.72	6.45	6.74

COP (EN 12900/CECOMAF) **W/W**

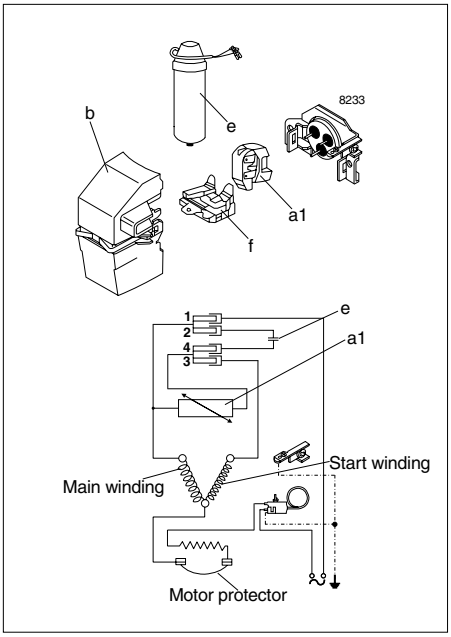
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY5.5FK	0.93	1.04	1.14	1.18	1.35	1.52	1.61

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTY5.5FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3306
		TI-4TM419KFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

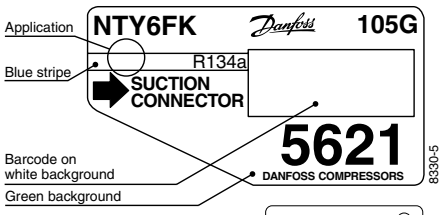


NTY6FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.A1.22)

General

Compressor		NTY6FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5621
Copper	Rubber plugs	



Approval mark

Application

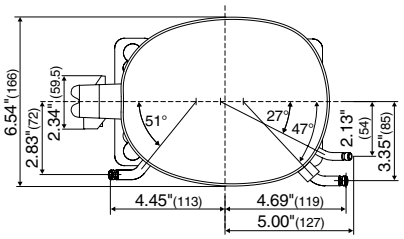
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

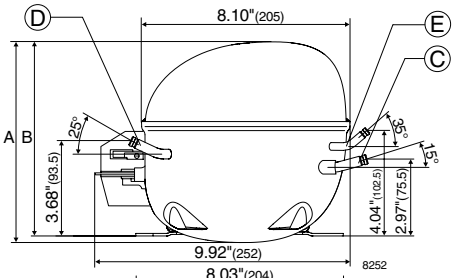
Design

Displacement	cu.in. (cm^3)	0.40 (6.58)
Oil quantity	fl.oz. (cm^3)	9.9 (290)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.8 (10.8)



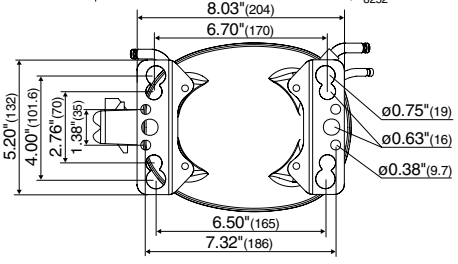
Motor

Motor size	watt	190
LRA (rated after 4 sec.UL984) LST	A	10.5
Cut-in current LST	A	20.4
Resistance, main and start winding (77°F)	Ω	3.1/4.0
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY6FK	427	579	718	786	1054	1391	1547

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY6FK	102	139	172	188	252	333	370

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY6FK	108	130	148	156	183	214	227

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY6FK	0.94	1.16	1.32	1.39	1.64	1.90	2.02

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY6FK	3.96	4.44	4.86	5.05	5.75	6.50	6.80

COP (EN 12900/CECOMAF) **W/W**

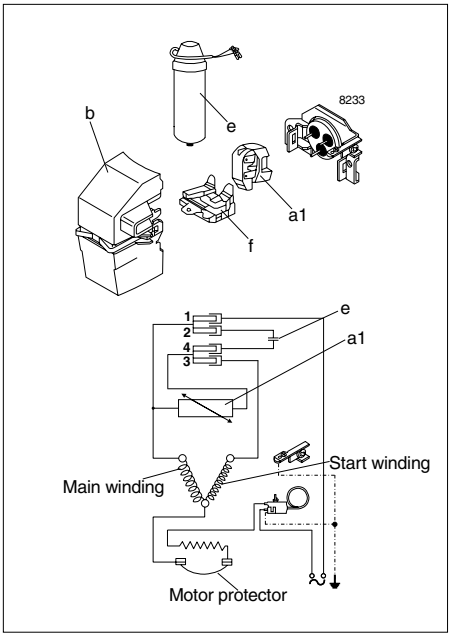
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY6FK	0.95	1.06	1.16	1.21	1.38	1.55	1.63

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTY6FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3306
		TI-4TM419KFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

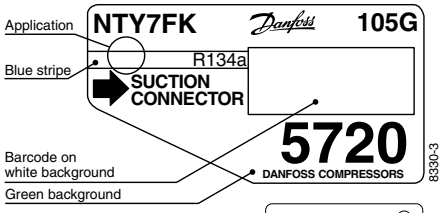


NTY7FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.43.T3.22)

General

Compressor		NTY7FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5720
Copper	Rubber plugs	



Approval mark

Application

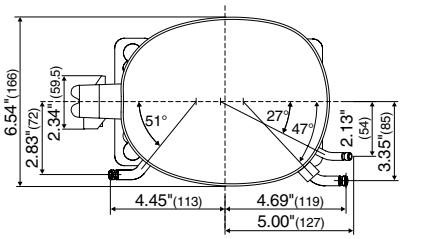
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_1

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

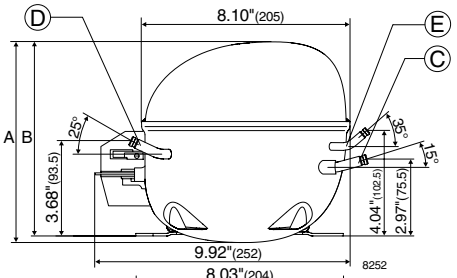
Design

Displacement	cu.in. (cm^3)	0.44 (7.27)
Oil quantity	fl.oz. (cm^3)	9.9 (290)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.8 (10.8)



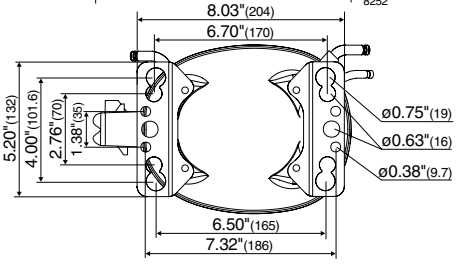
Motor

Motor size	watt	190
LRA (rated after 4 sec.UL984) LST	A	11.2
Cut-in current LST	A	21.6
Resistance, main and start winding (77°F)	Ω	2.9/2.9
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY7FK	491	657	810	885	1184	1564	1740

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY7FK	118	158	194	212	284	374	416

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY7FK	117	142	160	169	199	235	251

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY7FK	1.11	1.31	1.48	1.55	1.84	2.17	2.31

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY7FK	4.20	4.64	5.05	5.25	5.94	6.66	6.94

COP (EN 12900/CECOMAF) **W/W**

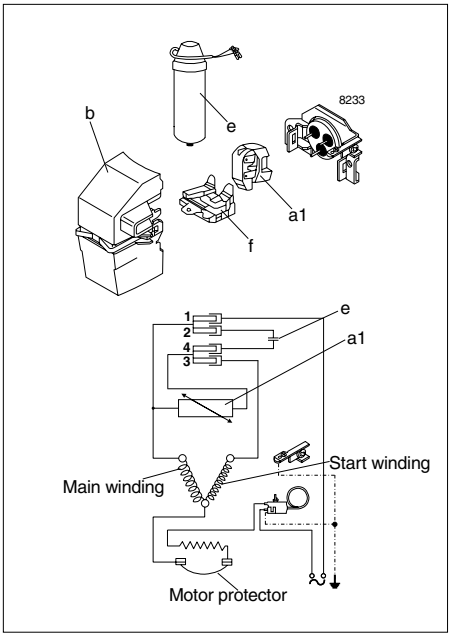
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY7FK	1.01	1.11	1.21	1.26	1.42	1.59	1.66

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTY7FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3306
		TI-4TM419KFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

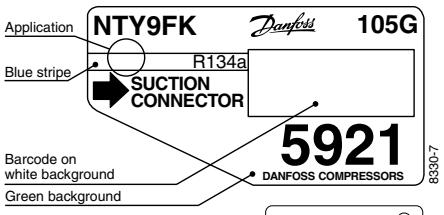


NTY9FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.B1.22)

General

Compressor		NTY9FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5921
Copper	Rubber plugs	



Approval mark

Application

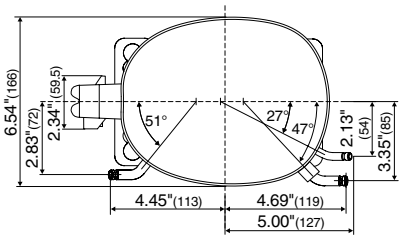
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_1

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

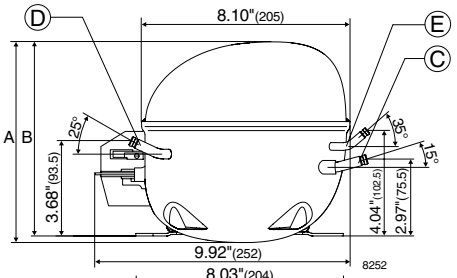
Design

Displacement	cu.in. (cm^3)	0.51 (8.35)
Oil quantity	fl.oz. (cm^3)	9.9 (290)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.8 (10.8)



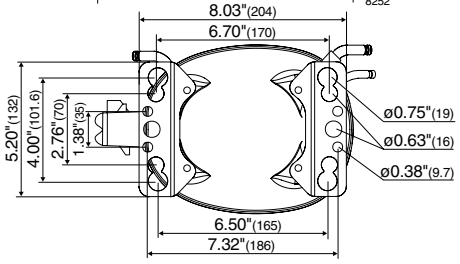
Motor

Motor size	watt	230
LRA (rated after 4 sec.UL984) LST	A	13.4
Cut-in current LST	A	24.2
Resistance, main and start winding (77°F)	Ω	2.4/3.2
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY9FK	557	753	930	1016	1356	1784	1982

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY9FK	134	181	223	243	325	427	474

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY9FK	135	164	186	196	231	271	290

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY9FK	1.26	1.48	1.67	1.75	2.08	2.45	2.61

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY9FK	4.13	4.59	5.00	5.19	5.87	6.57	6.84

COP (EN 12900/CECOMAF) **W/W**

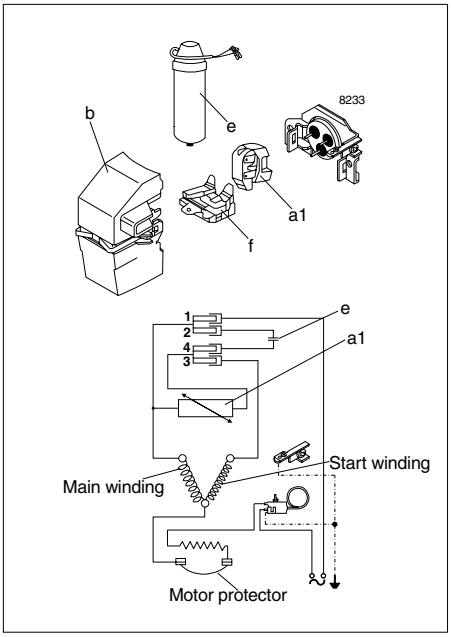
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY9FK	0.99	1.10	1.20	1.24	1.41	1.57	1.64

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTY9FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3310
		TI-4TM789KDBZZ-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

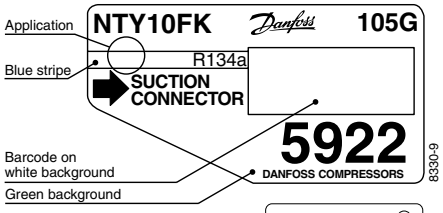


NTY10FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.C1.22)

General

Compressor		NTY10FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	105G5922
Copper	Rubber plugs	



Approval mark

Application

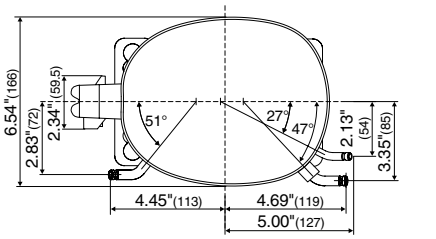
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_1

*run capacitor compulsory

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

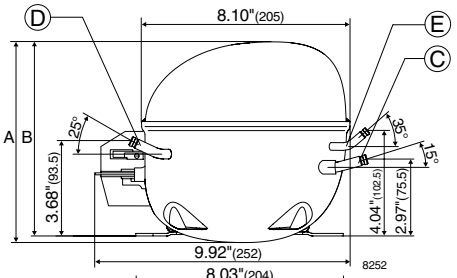
Design

Displacement	cu.in. (cm^3)	0.62 (10.09)
Oil quantity	fl.oz. (cm^3)	9.9 (290)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.7 (2360)
Weight without electrical equipment	lbs. (kg)	23.8 (10.8)



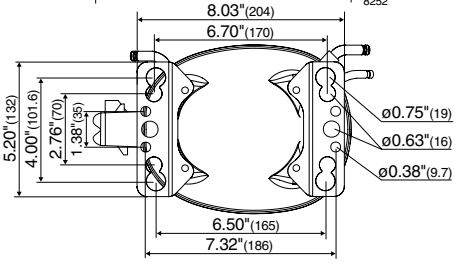
Motor

Motor size	watt	285
LRA (rated after 4 sec.UL984) LST	A	20.3
Cut-in current LST	A	30.7
Resistance, main and start winding (77°F)	Ω	1.8/3.1
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY10FK	635	873	1082	1183	1581	2085	2321

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY10FK	152	209	259	283	378	499	555

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY10FK	164	200	226	238	281	331	354

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY10FK	1.89	2.12	2.31	2.41	2.78	3.21	3.41

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTY10FK	3.87	4.36	4.78	4.97	5.63	6.30	6.56

COP (EN 12900/CECOMAF) **W/W**

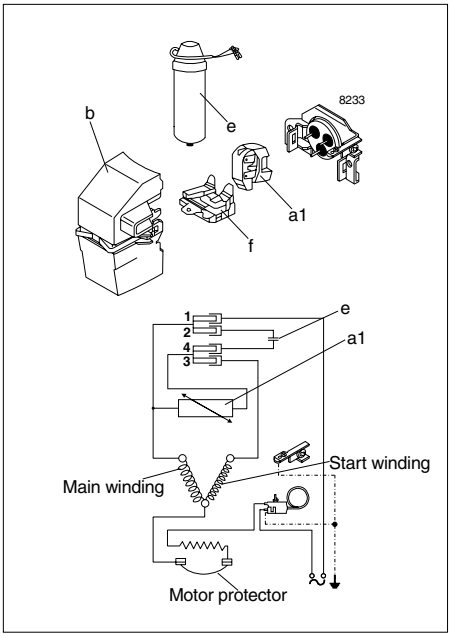
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTY10FK	0.93	1.05	1.14	1.19	1.35	1.51	1.57

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTY10FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3311
		TI-4TM805KDBZZ-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

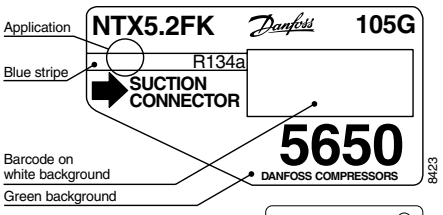


NTX5.2FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.K2.22)

General

Compressor		NTX5.2FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	
Copper	Rubber plugs	105G5650



Approval mark

Application

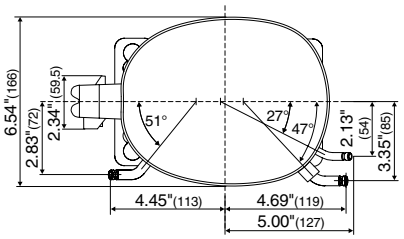
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

* run capacitor compulsory

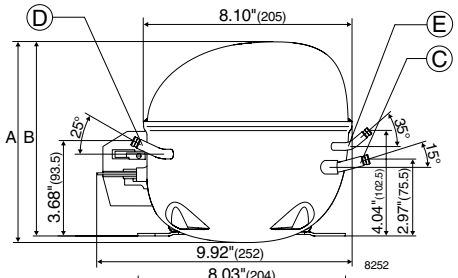
Design

Displacement	cu.in. (cm^3)	0.31 (5.20)
Oil quantity	fl.oz. (cm^3)	9.2 (270)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.5 (2340)
Weight without electrical equipment	lbs. (kg)	24.9 (11.3)



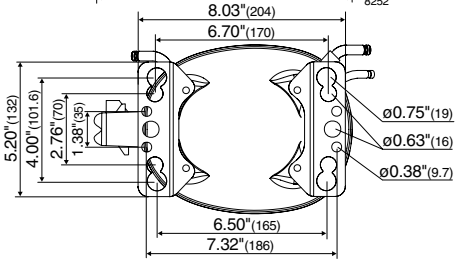
Motor

Motor size	watt	124
LRA (rated after 4 sec.UL984) LST	A	7.0
Cut-in current LST	A	14.7
Resistance, main and start winding (77°F)	Ω	5.6/4.6
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.2FK	277	424	543	600	812	1066	1182

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX5.2FK	64.8	100	128	142	192	252	279

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.2FK	71.1	89.3	102	107	125	144	152

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.2FK	0.62	0.78	0.89	0.94	1.12	1.30	1.38

EER (ASHRAE) **Btu/Wh**

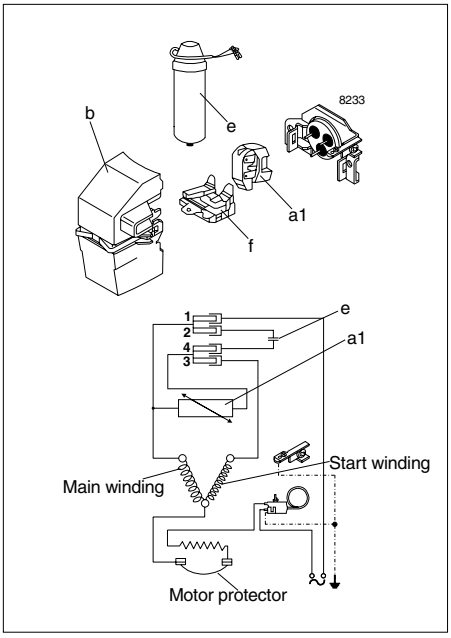
Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.2FK	3.89	4.74	5.34	5.60	6.48	7.40	7.77

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX5.2FK	0.92	1.12	1.26	1.32	1.53	1.75	1.83

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 12 µF, 115V 60Hz, PTC consumption incl.



Accessories

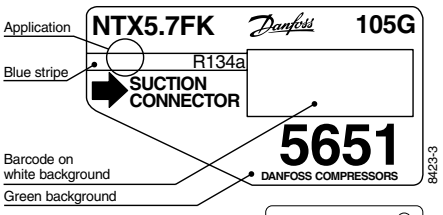
Devices	Fig.	NTX5.2FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 12 µF (compulsory)	e	117-7126
Protector (Texas Instruments)	f	117U3302
		TI-4TM314NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

NTX5.7FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.L2.22)

General

Compressor		NTX5.7FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	
Copper	Rubber plugs	105G5651



Approval mark

Application

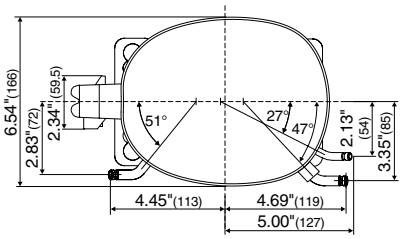
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

* run capacitor compulsory

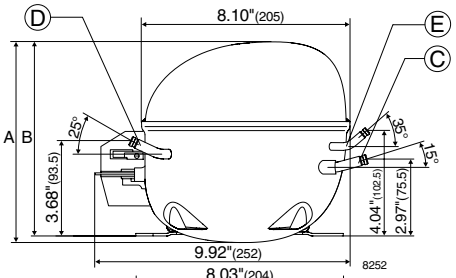
Design

Displacement	cu.in. (cm^3)	0.34 (5.71)
Oil quantity	fl.oz. (cm^3)	9.2 (270)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.5 (2340)
Weight without electrical equipment	lbs. (kg)	24.9 (11.3)



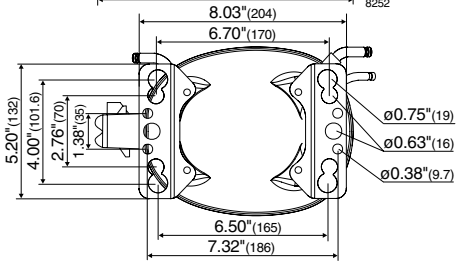
Motor

Motor size	watt	182
LRA (rated after 4 sec.UL984) LST	A	10.9
Cut-in current LST	A	21.2
Resistance, main and start winding (77°F)	Ω	2.8/3.5
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.7FK	317	472	606	670	919	1226	1367

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX5.7FK	74.6	111	143	158	218	290	324

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.7FK	82.3	98.6	112	118	139	162	172

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.7FK	0.72	0.88	1.01	1.06	1.24	1.44	1.52

EER (ASHRAE) **Btu/Wh**

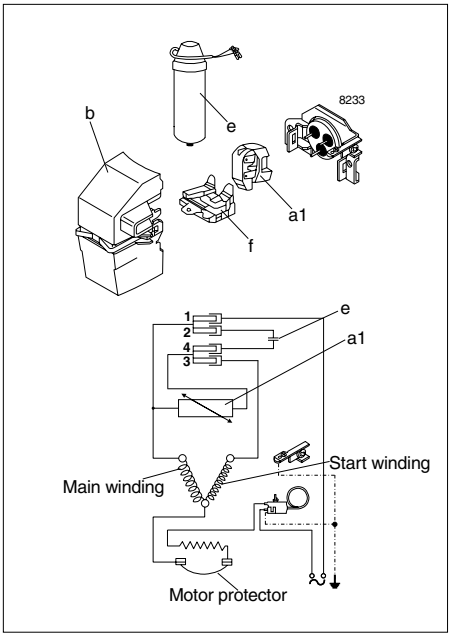
Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX5.7FK	3.85	4.79	5.43	5.70	6.61	7.55	7.93

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX5.7FK	0.91	1.13	1.28	1.34	1.56	1.78	1.87

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.



Accessories

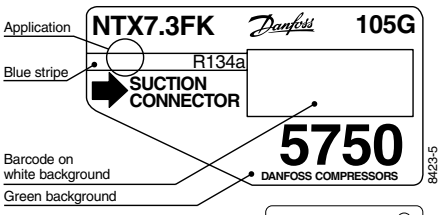
Devices	Fig.	NTX5.7FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3312
		TI-4TM319NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

NTX7.3FK
High Energy-optimized Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.M2.22)

General

Compressor		NTX7.3FK
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	
Copper-plated steel	Rubber plugs	
Copper	Rubber plugs	105G5750



Approval mark

Application

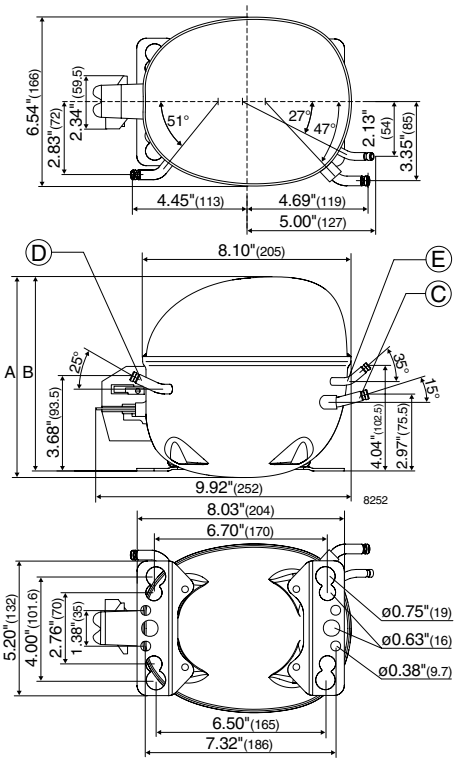
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSCR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

* run capacitor compulsory

Design

Displacement	cu.in. (cm^3)	0.44 (7.29)
Oil quantity	fl.oz. (cm^3)	9.2 (270)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	79.5 (2340)
Weight without electrical equipment	lbs. (kg)	24.9 (11.3)



Motor

Motor size	watt	182
LRA (rated after 4 sec.UL984) LST	A	10.9
Cut-in current LST	A	21.2
Resistance, main and start winding (77°F)	Ω	2.8/3.5
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.00 (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)
Compressors on a pallet	pcs.		80

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX7.3FK	443	627	790	870	1181	1567	1744

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX7.3FK	105	148	187	206	280	371	413

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX7.3FK	103	126	144	151	178	207	219

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX7.3FK	0.93	1.13	1.28	1.35	1.60	1.87	1.98

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
NTX7.3FK	4.29	4.96	5.50	5.75	6.63	7.57	7.95

COP (EN 12900/CECOMAF) **W/W**

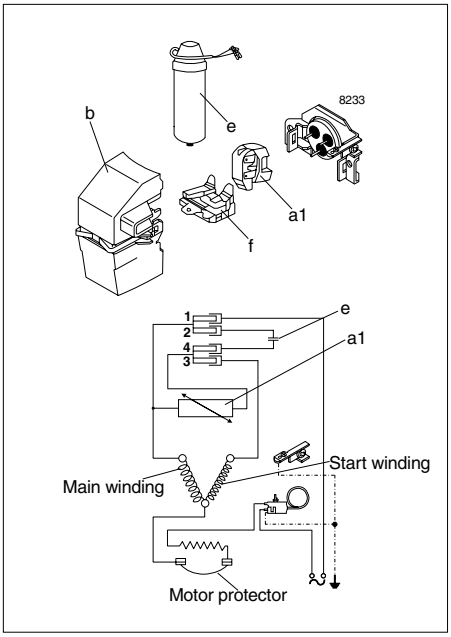
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
NTX7.3FK	1.02	1.17	1.30	1.36	1.56	1.78	1.87

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, with RC 15 µF, 115V 60Hz, PTC consumption incl.

Accessories

Devices	Fig.	NTX7.3FK
PTC starting device (Texas Instr.) with reduced loss of energy	a1	117U6102
		TI 8EA 4B3
PTC starting device (Siemens) with reduced loss of energy	a1 (alternative)	117U6106
		J506-A120-A320
Cover	b	117U1026
Run capacitor 15 µF (compulsory)	e	117-7118
Protector (Texas Instruments)	f	117U3312
		TI-4TM319NFBYY-53
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

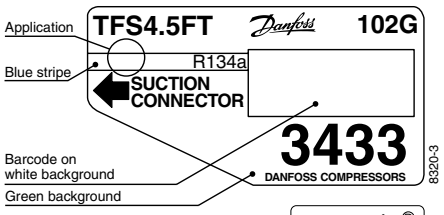


TFS4.5FT
Tropical Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CG.42.N1.22)

General

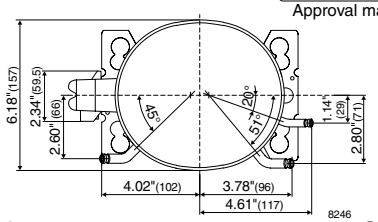
Compressor		TFS4.5FT
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3439
Copper-plated steel	Rubber plugs	102G3433
		102G3436
Copper	Rubber plugs	



Application

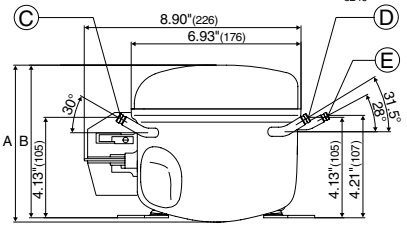
Application		LBP
Evaporating temperature range	°F (°C)	-31 to 14 (-35 to -10)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary



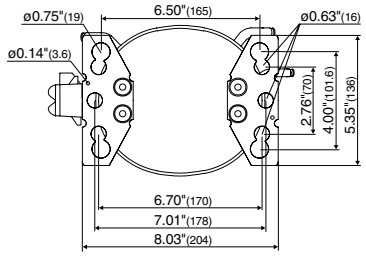
Design

Displacement	cu.in. (cm^3)	0.29 (4.63)
Oil quantity	fl.oz. (cm^3)	6.1 (180)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	60.7 (1790)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)



Motor

Motor size	watt	160
LRA (rated after 4 sec.UL984) LST	A	20.1
Cut-in current LST	A	20.1
Resistance, main and start winding (77°F)	Ω	3.3/8.8
Approvals		UL984/CSA-C22.2



Dimensions

		102G3433	102G3436	102G3439
Height	in. (mm)	A	6.81 (173)	
		B	6.65 (169)	
Suction connector location/I.D.	in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Process connector location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)	0.242-0.249 (6.2±0.09)
Discharge connector location/I.D.	in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.252-0.259 (6.5±0.09)	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.	125		

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4.5FT	245	340	431	477	654	875	974

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TFS4.5FT	58	80	102	113	155	208	231

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4.5FT	90	108	121	127	148	172	182

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4.5FT	1.88	1.94	1.99	2.02	2.12	2.25	2.31

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
TFS4.5FT	2.72	3.16	3.56	3.75	4.40	5.09	5.36

COP (EN 12900/CECOMAF) **W/W**

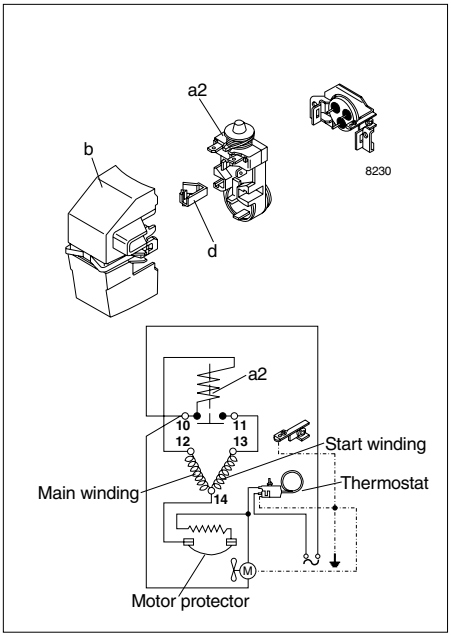
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10
Comp.\°F	-30	-20	-13	-10	0	10	14
TFS4.5FT	0.64	0.75	0.84	0.89	1.04	1.21	1.27

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Static cooling, 115V 60Hz

Accessories

Devices	**Fig.**	**TFS4.5FT**
Starting relay (Klixon incl.)	a2	117U4113
Protector 3/4" Texas Instruments		MRP39AIL-6
Cover	b	117U1021
Cord relief	d	117U0349
Mounting accessories **(102G3433/36)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947
Mounting accessories **(102G3439)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

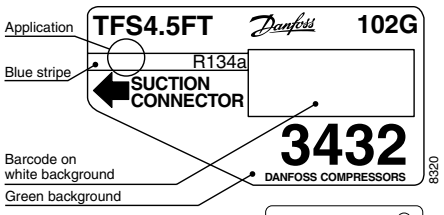


TFS4.5FT
Tropical Compressor
R134a
115-127V 60Hz

Data Sheet (Replaces CD.42.R6.22)

General

Compressor		TFS4.5FT
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3452
Copper-plated steel	Rubber plugs	102G3432
Copper	Rubber plugs	102G3438



Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 45 (-35 to 7.2)
Voltage range	V/Hz	95 - 135 /60
Motor type		RSIR/CSIR*
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_1

*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).

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

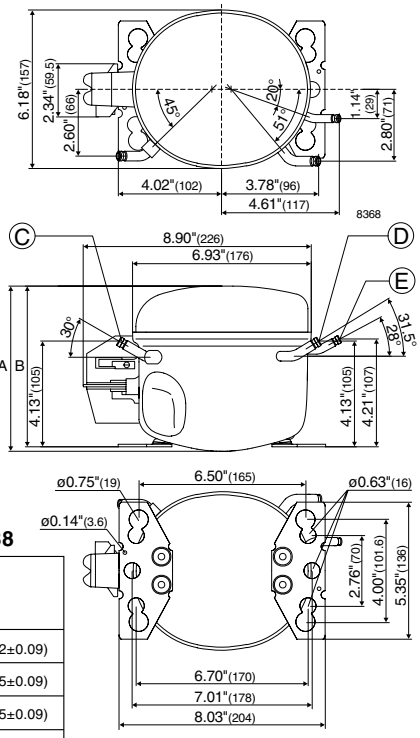
Approval mark

Design

Displacement	cu.in. (cm^3)	0.29 (4.63)
Oil quantity	fl.oz. (cm^3)	9.5 (280)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	57.3 (1690)
Weight without electrical equipment	lbs. (kg)	14.9 (6.8)

Motor

Motor size	watt	160
LRA (rated after 4 sec.UL984) LST	A	20.1
Cut-in current LST	A	20.1
Resistance, main and start winding (77°F)	Ω	3.3/8.8
Approvals		UL984/CSA-C22.2



Dimensions

		102G3452/32	102G3438
Height	in. (mm)	A 6.81 (173)	
		B 6.65 (169)	
Suction connector location/I.D.	in. (mm)	C 0.252-0.259 (6.5±0.09)	0.252-0.259 (8.2±0.09)
Process connector location/I.D.	in. (mm)	D 0.252-0.259 (6.5±0.09)	0.252-0.259 (6.5±0.09)
Discharge connector location/I.D.	in. (mm)	E 0.202-0.205 (5.0+0.12/0.20)	0.252-0.259 (6.5±0.09)
Compressors on a pallet	pcs.	125	

Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
TFS4.5FT	245	340	431	477	654	875	974	1135	1445	1793	1987

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
TFS4.5FT	58	80	102	113	155	208	231	269	343	425	471

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
TFS4.5FT	90	108	121	127	148	172	182	197	225	254	270

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
TFS4.5FT	1.88	1.94	1.99	2.02	2.12	2.25	2.31	2.41	2.60	2.83	2.96

EER (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
TFS4.5FT	2.72	3.16	3.56	3.75	4.40	5.09	5.36	5.76	6.43	7.06	7.37

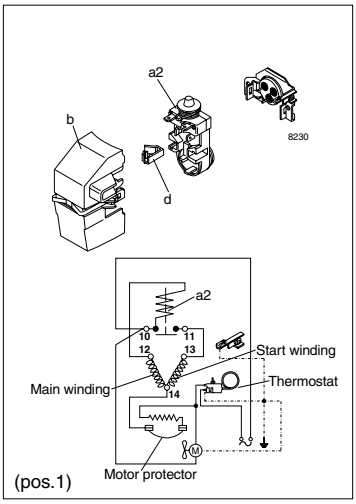
COP (EN 12900/CECOMAF) **W/W**

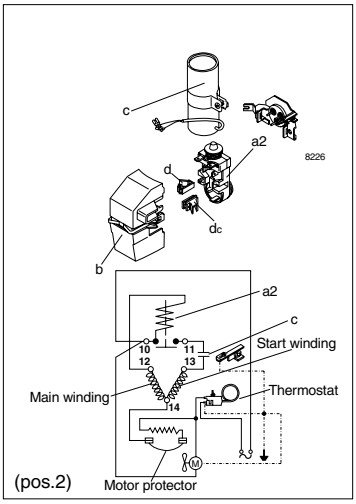
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7	-1.1	4.4	7.2
Comp.\°F	-30	-20	-13	-10	0	10	14	20	30	40	45
TFS4.5FT	0.64	0.75	0.84	0.89	1.04	1.21	1.27	1.37	1.52	1.67	1.74

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54,4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)
Static cooling, 115V 60Hz		

Accessories

Devices	Fig.	TFS4.5FT
Starting relay (protector incl.)	a2 (pos.1)	117U4113
Protector 3/4" Texas Instruments		MRP39AIL-6
Starting relay (protector incl.)	a2	117U4126*
Starting capacitor 320 µF	c	117U5022*
Protector 3/4" Texas Instruments	(pos.2)	MRP39AIL-6
Cover	b	117U1021
Cord relief	d	117U0349
Cord relief capacitor	dc	117U0349
Mounting accessories **(102G3432/38)**	Ø in. (mm)	
Bolt joint in for one compressor	5/8 (16)	118-1946
Bolt joint in for one compressor	3/4 (19)	118-1949
Snap-on in for one compressor	5/8 (16)	118-1947
Mounting accessories **(102G3452)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919





*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).

SC12FTX
Tropical Compressor
R134a
115-127V 60Hz

Data Sheet

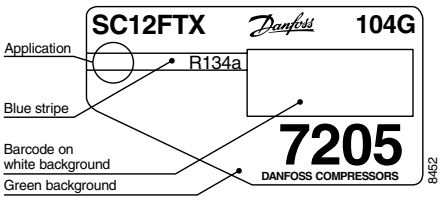
General

Compressor (CU-plated steel connectors)	**SC12FTX**
Code number	104G7205

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 23 (-35 to -5)
Voltage range*)	V/Hz	95 - 135 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_2

*) Not applicable below -20°F evaporating temperature in 110°F ambient temperature above 127V.



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

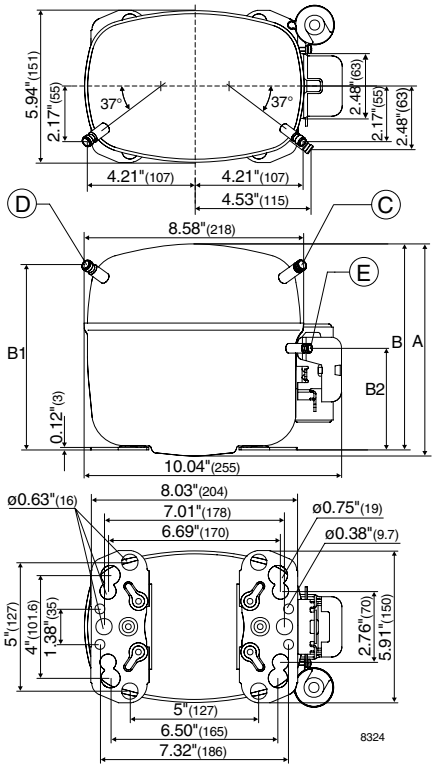
Displacement	cu.in. (cm^3)	0.78 (12.90)
Oil quantity	fl.oz. (cm^3)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	27.7 (12.6)

Motor

Motor size	watt	490
LRA (rated after 4 sec.UL984) HST	A	38.2
Cut-in current HST	A	38.2
Resistance, main and start winding (77°F)	Ω	1.2/4.2
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.23 (209)
		B	8.00 (203)
		B1	7.20 (183)
		B2	3.94 (100)
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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC12FTX	563	889	1155	1280	1753	2324	2583	3008

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	14	20
SC12FTX	132	210	273	303	415	549	610	710

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC12FTX	244	302	343	360	419	478	502	537

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC12FTX	5.01	5.28	5.48	5.57	5.88	6.20	6.34	6.55

EER (ASHRAE) **Btu/Wh**

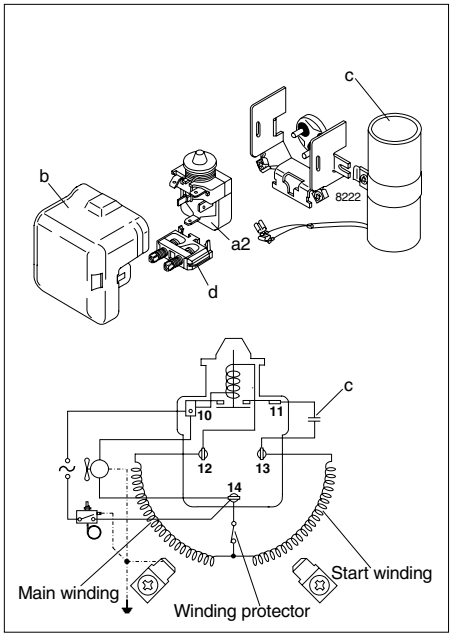
Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC12FTX	2.30	2.94	3.37	3.55	4.18	4.86	5.15	5.60

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	14	20
SC12FTX	0.54	0.70	0.80	0.84	0.99	1.15	1.21	1.32

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Fan cooling F_2, 115V 60Hz



Accessories

Devices	Fig.	SC12FTX
Starting relay	a2	117U6012
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

SC15FTX
Tropical Compressor
R134a
115-127V 60Hz & 100V 50/60Hz

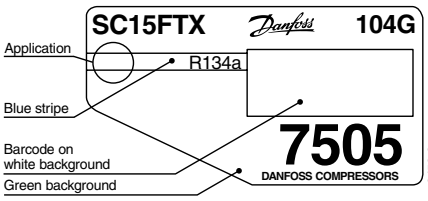
Data Sheet (Replaces CG.44.J1.22)

General

Compressor (CU-plated steel connectors)	**SC15FTX**
Code number	104G7505

Application

Application		LBP/MBP
Evaporating temperature range	°F (°C)	-31 to 23 (-35 to -5)
Voltage range	V/Hz	95 - 135 /60 90 - 110 /50 90 - 110 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_2



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

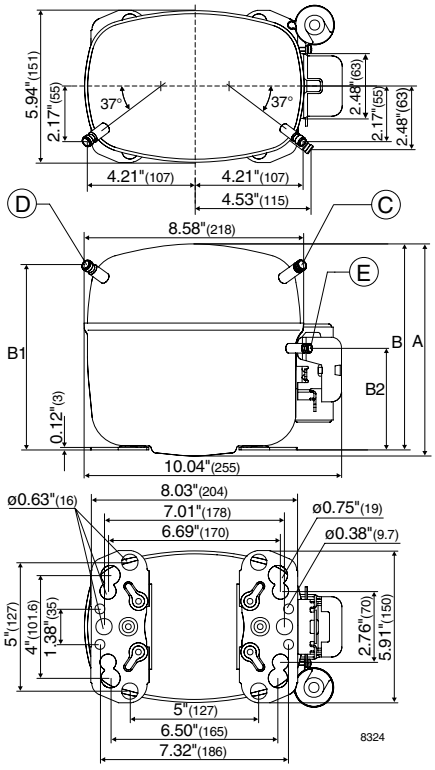
Displacement	cu.in. (cm^3)	0.93 (15.30)
Oil quantity	fl.oz. (cm^3)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	27.7 (12.6)

Motor

Motor size	watt	540
LRA (rated after 4 sec.UL984) HST	A	42
Cut-in current HST	A	42
Resistance, main and start winding (77°F)	Ω	1.0/4.3
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.23 (209)
		B	8.00 (203)
		B1	7.20 (183)
		B2	3.94 (100)
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)
Compressors on a pallet	pcs.		80



Capacity (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC15FTX	711	1094	1404	1550	2096	2750	3046	3531

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	14	20
SC15FTX	167	258	332	367	497	652	722	836

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC15FTX	237	325	382	405	481	555	585	632

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC15FTX	4.82	5.27	5.60	5.75	6.26	6.81	7.03	7.39

EER (ASHRAE) **Btu/Wh**

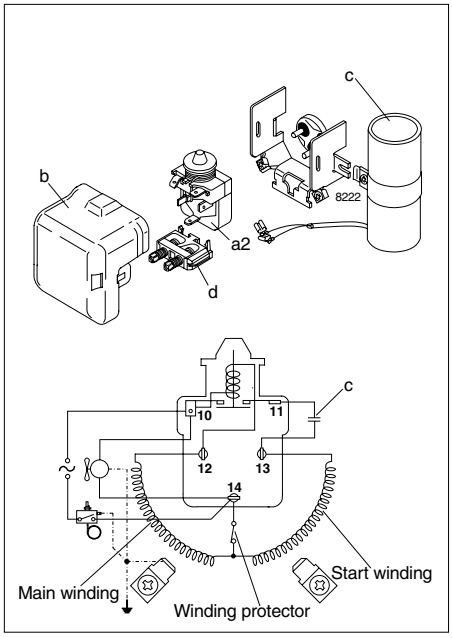
Comp.\°F	-30	-20	-13	-10	0	10	14	20
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
SC15FTX	3.00	3.37	3.68	3.83	4.36	4.95	5.20	5.58

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-10	-6.7
Comp.\°F	-30	-20	-13	-10	0	10	14	20
SC15FTX	0.72	0.80	0.87	0.91	1.03	1.17	1.23	1.32

Test conditions	ASHRAE	EN 12900/CECOMAF
Condensing temperature	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	55°C (131°F)

Fan cooling F_2, 115V 60Hz



Accessories

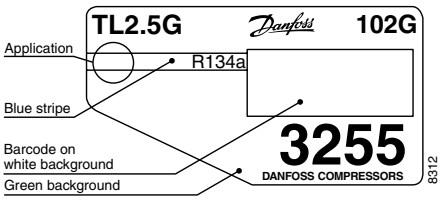
Devices	Fig.	SC15FTX
Starting relay	a2	117U6020
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

TL2.5G
Universal Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.42.E4.22)

General

Compressor			TL2.5G
Connector-material	Sealing	Baseplate	Code number
Copper-plated steel	Alumin. caps	small	102G3255
Copper-plated steel	Rubber plugs	large	102G3257
Copper	Rubber plugs	large	



Application

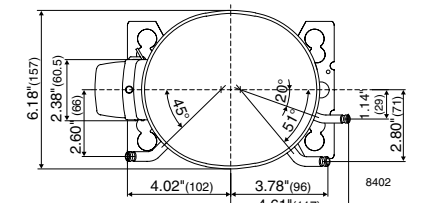
Application		LBP/HBP
Evaporating temperature range	°F (°C)	-13 to 59 (-25 to 15)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

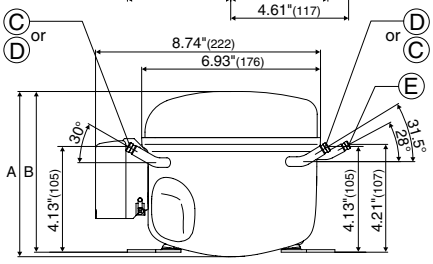
Design

Displacement	cu.in. (cm³)	0.16 (2.61)
Oil quantity	fl.oz. (cm³)	9.5 (280)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm³)	54.3 (1600)
Weight without electrical equipment	lbs. (kg)	14.7 (6.7)



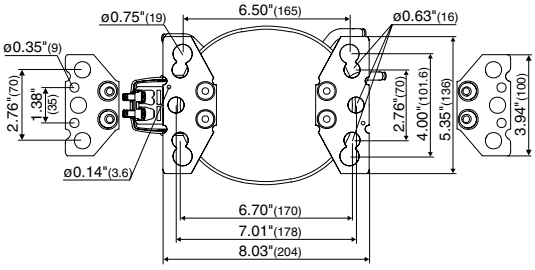
Motor

Motor size	watt	105
LRA (rated after 4 sec.UL984) LST	A	7.0
Cut-in current LST	A	16.0
Resistance, main and start winding (77°F)	Ω	5.3/4.9
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.42 (163)
		B	6.26 (159)
Suction connector location/I.D.	in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	170	190	279	402	557	746	969	1093	1226	1488

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	150	169	248	356	493	660	857	966	1083	1312

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
TL2.5G	41	45	67	96	133	178	231	260	291	353

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	69	72	81	91	101	113	124	131	137	149

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	1.22	1.23	1.28	1.34	1.41	1.48	1.56	1.60	1.64	1.73

EER at LBP conditions (ASHRAE) **Btu/Wh**

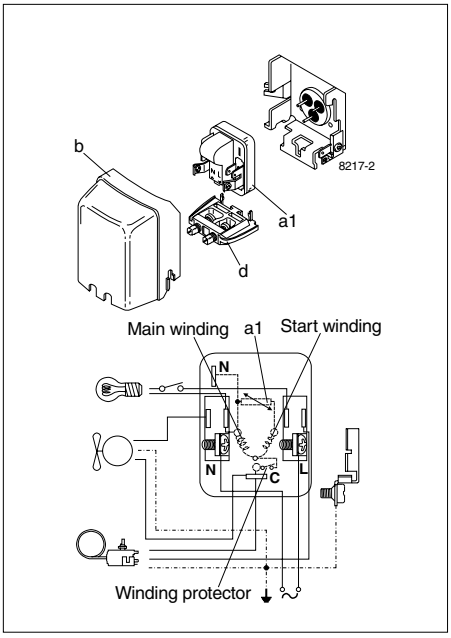
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	2.46	2.66	3.46	4.43	5.50	6.63	7.79	8.36	8.94	9.97

EER at HBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL2.5G	2.18	2.36	3.07	3.92	4.87	5.87	6.88	7.39	7.89	8.79

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
TL2.5G	0.59	0.64	0.83	1.06	1.31	1.58	1.85	1.99	2.12	2.36



Accessories

Devices	Fig.	TL2.5G
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0003
3/16 in. (4.8 mm) spades		103N0023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories **(102G3255)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919
Mounting accessories **(102G3257)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Static cooling , 115V 60Hz,
PTC consumption incl.

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. HBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

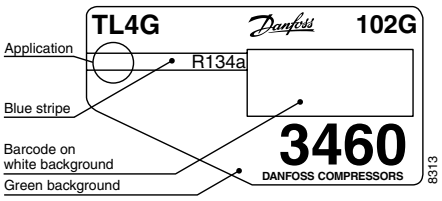
EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)

TL4G
Universal Compressor
R134a
100-115V 50/60Hz

Data Sheet (Replaces CD.42.F4.22)

General

Compressor		TL4G
Connector-material	Sealing	Code number
Copper-plated steel	Aluminium caps	102G3460
Copper-plated steel	Rubber plugs	102G3462
Copper	Rubber plugs	



Approval mark

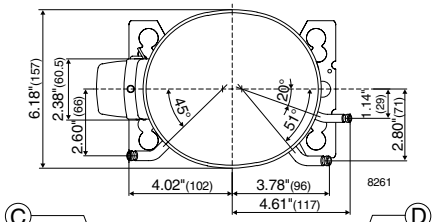
Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-31 to 59 (-35 to 15)
Voltage range	V/Hz	90 - 127 /50,60
Motor type		RSIR/CSIR
Max. ambient temperature	V/°F (°C)	115 / 110 (43)
at Voltage	V/°F (°C)	100 / 100 (38)
Comp. cooling at max.		
ambient temperature	110°F (43°C)	S
	100°F (38°C)	S

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

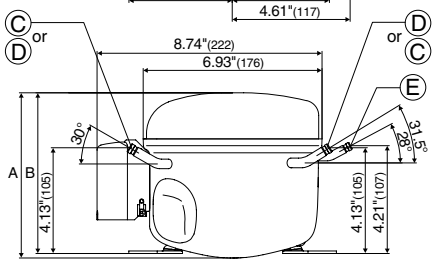
Design

Displacement	cu.in. (cm^3)	0.23 (3.86)
Oil quantity	fl.oz. (cm^3)	9.5 (280)
Maximum refrigerant charge	oz. (g)	14.0 (400)
Free gas vol. in compressor housing	fl.oz. (cm^3)	54.3 (1600)
Weight without electrical equipment	lbs. (kg)	16.7 (7.5)



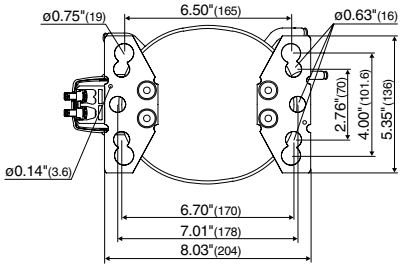
Motor

Motor size	watt	170
LRA (rated after 4 sec.UL984) LST/HST	A	12.2/14.2
Cut-in current LST/HST	A	22.6/14.2
Resistance, main and start winding (77°F)	Ω	3.2/3.4
Approvals		UL984/CSA-C22.2



Dimensions

Height	in. (mm)	A	6.81 (173)
		B	6.65 (169)
Suction connector	location/I.D. in. (mm)	C	0.252-0.259 (6.5±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	0.202-0.205 (5.0+0.12/0.20)
Compressors on a pallet	pcs.		125



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	131	203	272	306	441	612	824	1078	1380	1550	1733	2097

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	116	180	241	271	391	542	729	954	1220	1369	1530	1849

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
TL4G	31	49	65	73	105	146	197	257	328	368	412	497

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	71	82	91	96	111	129	147	167	187	197	207	225

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	1.69	1.72	1.74	1.75	1.79	1.86	1.96	2.10	2.30	2.41	2.55	2.83

EER at LBP conditions (ASHRAE) **Btu/Wh**

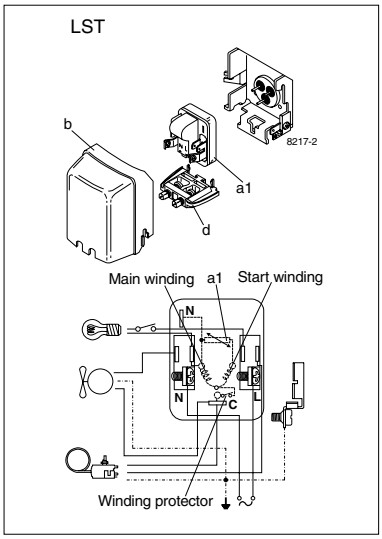
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	1.83	2.47	2.97	3.19	3.96	4.76	5.60	6.47	7.39	7.87	8.37	9.32

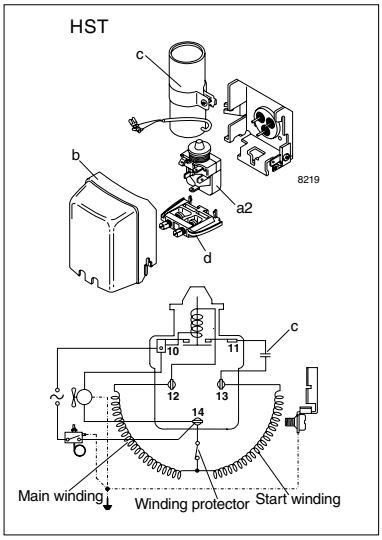
EER at HBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
TL4G	1.63	2.19	2.64	2.83	3.51	4.22	4.95	5.72	6.53	6.95	7.39	8.22

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50	59
TL4G	0.44	0.59	0.71	0.76	0.95	1.14	1.33	1.54	1.76	1.87	1.99	2.21





Accessories

Devices	Fig.	TL4G
PTC starting device		
1/4 in. (6.3 mm) spades	a1	103N0003
3/16 in. (4.8 mm) spades		103N0023
Starting relay	a2	117U6003
Starting capacitor 240 µF	c	117U5023
Cover	b	103N2011
Cord relief	d	103N1010
Mounting accessories **(102G3460)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919
Mounting accessories **(102G3462)**	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1946
Bolt joint for one compressor	3/4 (19)	118-1949
Snap-on for one compressor	5/8 (16)	118-1947

Test conditions
1. Condensing temperature
2. Ambient & suction gas temp.
3. Liquid temperature
Static cooling , 115V 60Hz,
PTC consumption incl.

ASHRAE
1. LBP 130°F (54,4°C)
2. 90°F (32°C)
3. 90°F (32°C)
1. HBP 130°F (54,4 °C)
2. 95°F (35°C)
3. 115°F (46°C)

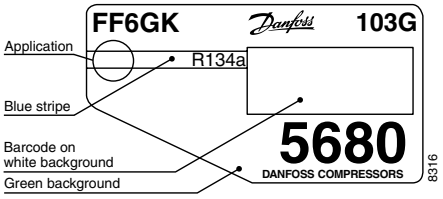
EN 12900/CECOMAF
1. 55°C (131°F)
2. 32°C (90°F)
3. 55°C (131°F)

FF6GK
Universal Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.43.C4.22)

General

Compressor (CU-plated steel connectors)	**FF6GK**
Codenumber	103G5680
Codenumber compressor with oil cooler	103G5690



Approval mark

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-22 to 50 (-30 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

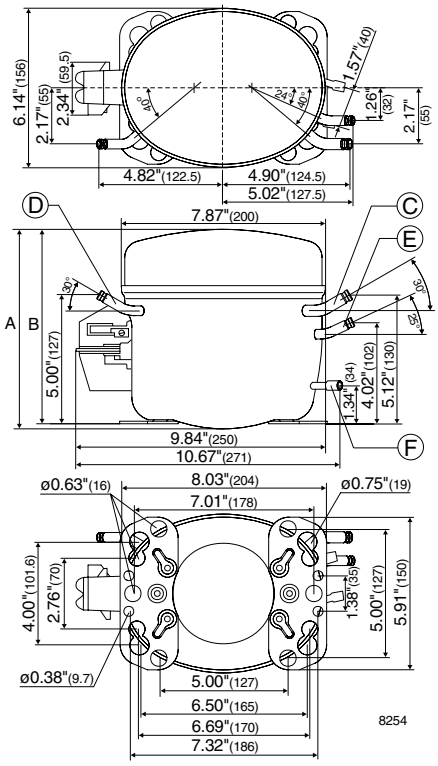
Displacement	cu.in. (cm^3)	0.38 (6.24)
Oil quantity	fl.oz. (cm^3)	13.5 (400)
Maximum refrigerant charge	oz. (g)	32.0 (900)
Free gas vol. in compressor housing	fl.oz. (cm^3)	47.3 (1400)
Weight without electrical equipment	lbs. (kg)	23.3 (10.6)

Motor

Motor size	watt	205
LRA (rated after 4 sec.UL984) LST	A	25.0
Cut-in current LST	A	25.0
Resistance, main and start winding (77°F)	Ω	2.2/8.3
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.72 (196)
		B	7.52 (191)
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



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	249	358	415	652	959	1338	1788	2310	2599	2907

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	221	318	368	578	850	1184	1581	2042	2296	2566

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF6GK	60	86	99	156	229	319	426	550	618	690

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	101	123	132	162	191	221	251	280	295	310

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	1.84	1.94	1.99	2.15	2.34	2.54	2.76	2.99	3.11	3.24

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	2.46	2.92	3.16	4.04	5.01	6.05	7.13	8.24	8.81	9.39

EER at HBP conditions (ASHRAE) **Btu/Wh**

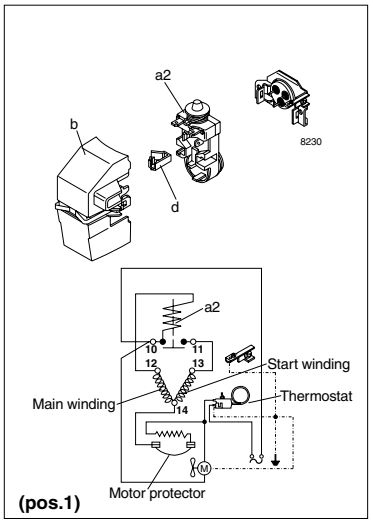
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF6GK	2.18	2.59	2.80	3.58	4.44	5.35	6.31	7.29	7.78	8.29

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF6GK	0.59	0.70	0.76	0.96	1.20	1.44	1.70	1.96	2.10	2.23

Accessories

Devices	Fig.	FF6GK
Starting relay (protector incl.) for fan-cooled compressor	a2	117U4085
Protector 3/4" (for fan-cooled compressor) Texas Instr.		MRP38JL-6
Starting relay (protector incl.) for oil-cooled compressor	a2	117U4086
Protector 3/4" (for oil-cooled compressor) Texas Instr.		MRP40EL-6
Cover (standard) Cord relief	b d **(pos.1)**	117U1021 117U0349
Cover (alternative) with terminal board	b **(pos.2)**	117U1024
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919



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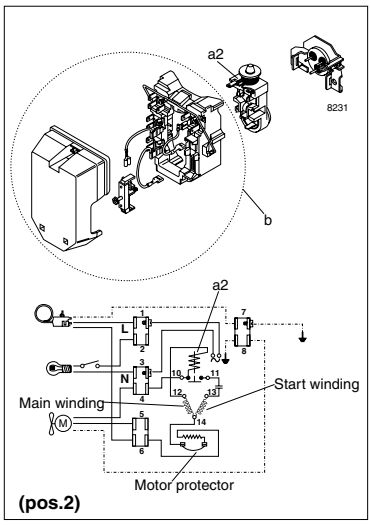

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Test conditions
1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

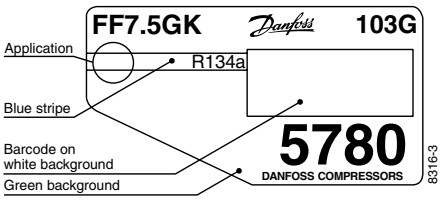
ASHRAE		EN 12900/CECOMAF
1. LBP	130°F (54,4°C)	55°C (131°F)
2.	90°F (32°C)	32°C (90°F)
3.	90°F (32°C)	55°C (131°F)
1. HBP	130°F (54,4 °C)	
2.	95°F (35°C)	
3.	115°F (46°C)	

FF7.5GK
Universal Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.D1.22)

General

Compressor (CU-plated steel connectors)	**FF7.5GK**
Codenumber	103G5780
Codenumber compressor with oil cooler	103G5790



Approval mark

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-22 to 50 (-30 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		RSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

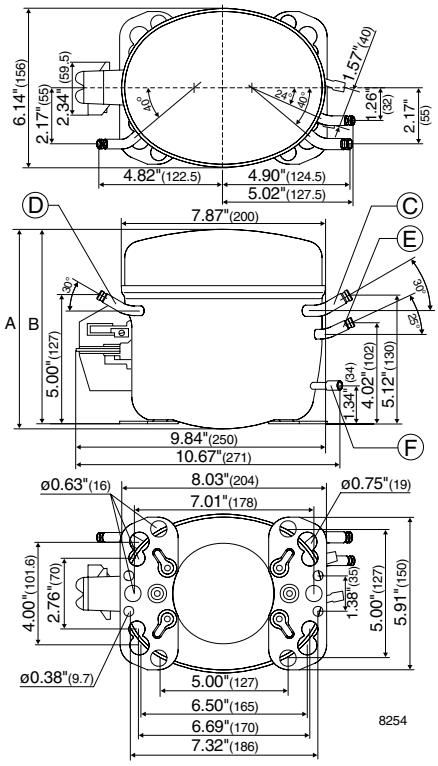
Displacement	cu.in. (cm^3)	0.42 (6.93)
Oil quantity	fl.oz. (cm^3)	13.5 (400)
Maximum refrigerant charge	oz. (g)	32.0 (900)
Free gas vol. in compressor housing	fl.oz. (cm^3)	47.3 (1400)
Weight without electrical equipment	lbs. (kg)	23.3 (10.6)

Motor

Motor size	watt	205
LRA (rated after 4 sec.UL984) LST	A	25.0
Cut-in current LST	A	25.0
Resistance, main and start winding (77°F)	Ω	2.2/8.3
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.72 (196)
		B	7.52 (191)
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



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	328	452	516	777	1111	1518	2000	2556	2863	3189

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	291	401	458	689	984	1344	1769	2259	2529	2816

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF7.5GK	79	108	123	186	265	362	477	608	681	757

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	115	138	148	182	216	250	286	322	340	359

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	1.90	2.02	2.07	2.28	2.51	2.76	3.03	3.32	3.47	3.62

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	2.86	3.28	3.49	4.27	5.15	6.06	7.00	7.94	8.41	8.88

EER at HBP conditions (ASHRAE) **Btu/Wh**

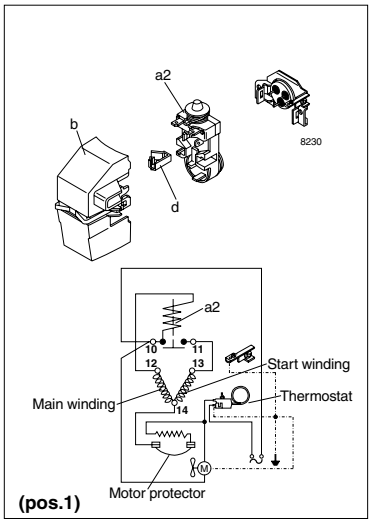
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF7.5GK	2.54	2.91	3.09	3.79	4.56	5.37	6.19	7.02	7.43	7.84

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF7.5GK	0.69	0.78	0.83	1.02	1.23	1.45	1.67	1.89	2.00	2.11

Accessories

Devices	Fig.	FF7.5GK
Starting relay (protector incl.) for fan-cooled compressor	a2	117U4085
Protector 3/4" (for fan-cooled compressor) Texas Instr.		MRP38JL-6
Starting relay (protector incl.) for oil-cooled compressor	a2	117U4086
Protector 3/4" (for oil-cooled compressor) Texas Instr.		MRP40EL-6
Cover (standard) Cord relief	b d **(pos.1)**	117U1021 117U0349
Cover (alternative) with terminal board	b **(pos.2)**	117U1024
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919



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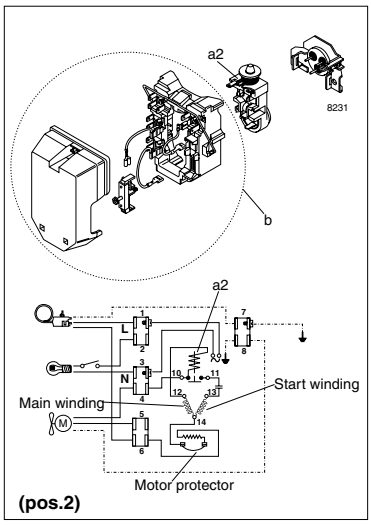


(pos.2)

Test conditions
1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

ASHRAE		EN 12900/CECOMAF
1. LBP	130°F (54,4°C)	55°C (131°F)
2.	90°F (32°C)	32°C (90°F)
3.	90°F (32°C)	55°C (131°F)
1. HBP	130°F (54,4 °C)	
2.	95°F (35°C)	
3.	115°F (46°C)	

FF8.5GX
Universal Compressor
R134a
115V 60Hz

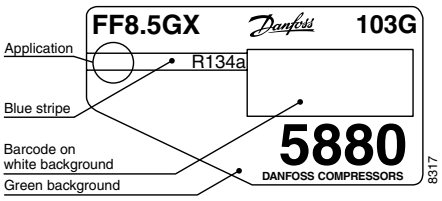
Data Sheet (Replaces CD.43.D4.22)

General

Compressor (CU-plated steel connectors)	**FF8.5GX**
Codenumber	103G5880

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-22 to 50 (-30 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature 110°F (43°C)		F_1



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

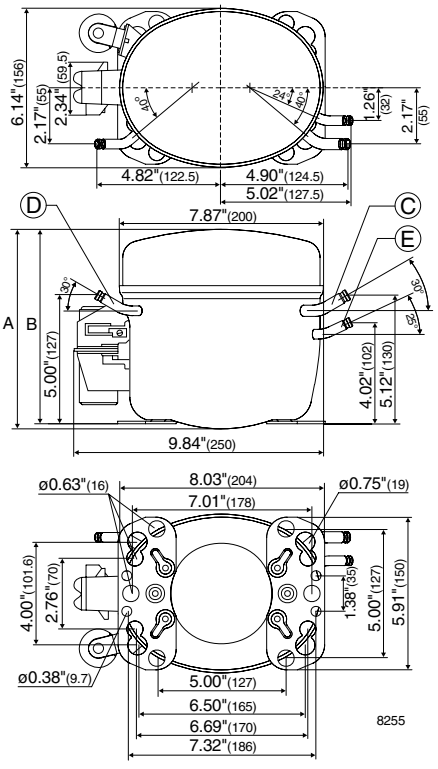
Displacement	cu.in. (cm^3)	0.48 (7.95)
Oil quantity	fl.oz. (cm^3)	13.5 (400)
Maximum refrigerant charge	oz. (g)	32.0 (900)
Free gas vol. in compressor housing	fl.oz. (cm^3)	47.3 (1400)
Weight without electrical equipment	lbs. (kg)	23.3 (10.6)

Motor

Motor size	watt	310
LRA (rated after 4 sec.UL984) HST	A	28.0
Cut-in current HST	A	28.0
Resistance, main and start winding (77°F)	Ω	1.9/6.6
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.72 (196)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	443	588	662	957	1328	1773	2294	2890	3217	3563

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	392	522	587	848	1176	1570	2029	2555	2842	3146

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF8.5GX	106	141	158	229	317	423	547	688	765	846

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	172	198	209	245	283	321	359	398	418	437

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	3.13	3.22	3.27	3.45	3.67	3.92	4.19	4.46	4.59	4.72

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	2.57	2.98	3.18	3.90	4.69	5.53	6.38	7.26	7.70	8.14

EER at HBP conditions (ASHRAE) **Btu/Wh**

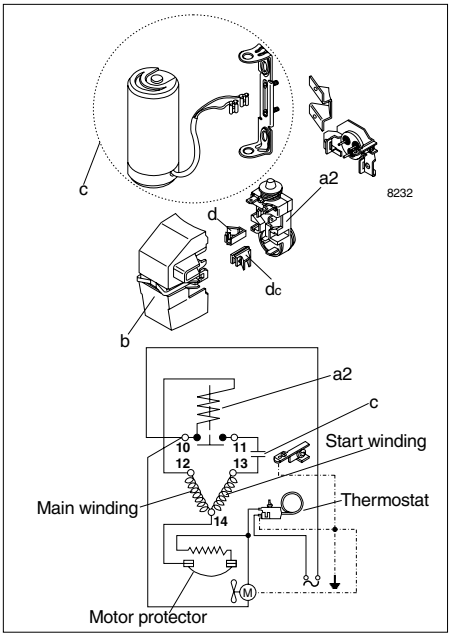
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF8.5GX	2.28	2.64	2.81	3.46	4.16	4.89	5.65	6.41	6.80	7.19

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF8.5GX	0.61	0.71	0.76	0.93	1.12	1.32	1.52	1.73	1.83	1.93

Test conditions	ASHRAE (LBP)	ASHRAE (HBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

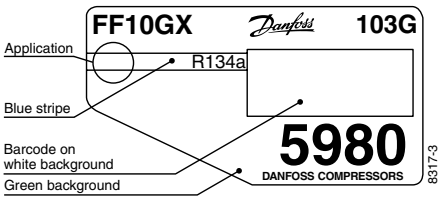
Devices	Fig.	FF8.5GX
Starting relay (protector incl.)	a2	117U4060
Protector 3/4" Texas Instr.		MRP36AEN-6
Cover	b	117U1021
Starting capacitor 280 µF	c	117U5041
Cord relief	d	117U0349
Cord relief capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

FF10GX
Universal Compressor
R134a
115V 60Hz

Data Sheet (Replaces CH.43.E1.22)

General

Compressor (CU-plated steel connectors)	**FF10GX**
Codenumber compressor	103G5980



Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-22 to 50 (-30 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Approval mark

Design

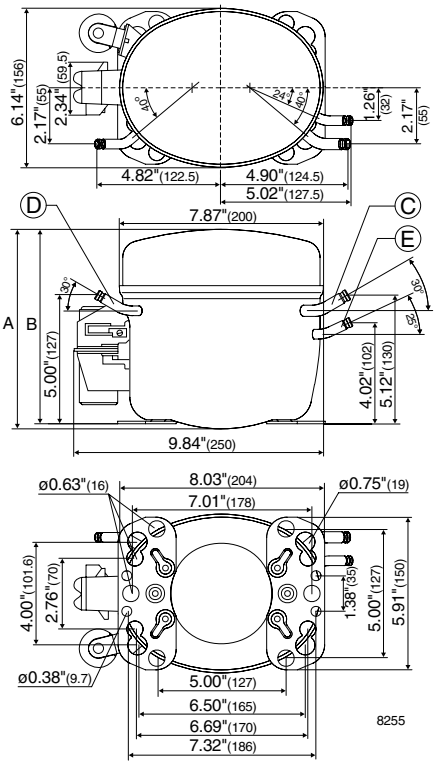
Displacement	cu.in. (cm^3)	0.55 (9.05)
Oil quantity	fl.oz. (cm^3)	13.5 (400)
Maximum refrigerant charge	oz. (g)	32.0 (900)
Free gas vol. in compressor housing	fl.oz. (cm^3)	47.3 (1400)
Weight without electrical equipment	lbs. (kg)	23.3 (10.6)

Motor

Motor size	watt	330
LRA (rated after 4 sec.UL984) HST	A	29.9
Cut-in current HST	A	29.9
Resistance, main and start winding (77°F)	Ω	1.7/5.4
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	7.72 (196)
		B	7.52 (191)
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)
Compressors on a pallet	pcs.		80



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	474	635	716	1041	1450	1945	2526	3194	3562	3953

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	420	563	635	923	1285	1721	2234	2823	3147	3490

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF10GX	113	152	171	249	346	464	602	760	847	939

Power consumption **watt**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	191	220	232	274	316	359	402	446	468	491

Current consumption **A**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	3.50	3.61	3.66	3.86	4.10	4.37	4.67	5.00	5.17	5.34

EER at LBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	2.48	2.89	3.09	3.80	4.59	5.42	6.28	7.16	7.61	8.06

EER at HBP conditions (ASHRAE) **Btu/Wh**

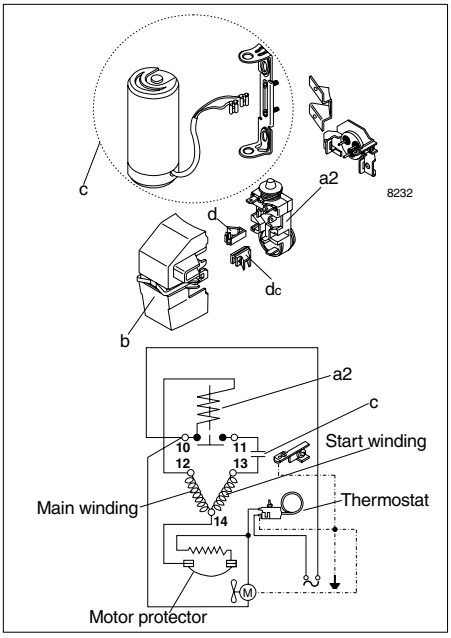
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
FF10GX	2.20	2.56	2.74	3.37	4.06	4.80	5.55	6.33	6.72	7.11

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-20	-13	-10	0	10	20	30	40	45	50
FF10GX	0.59	0.69	0.74	0.91	1.10	1.29	1.50	1.70	1.81	1.91

Test conditions	ASHRAE (LBP)	ASHRAE (HBP)	EN12900/CECOMAF
Condensing temperature	130°F (54.4°C)	130°F (54.4°C)	55°C (131°F)
Ambient and suction gas temp.	90°F (32°C)	95°F (35°C)	32°C (90°F)
Liquid temperature	90°F (32°C)	115°F (46°C)	55°C (131°F)

Fan cooling F_1, 115V 60Hz



Accessories

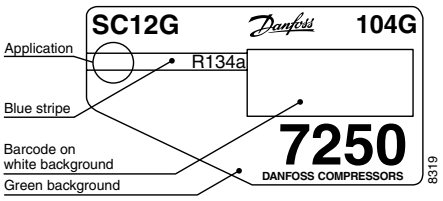
Devices	Fig.	FF10GX
Starting relay (protector incl.)	a2	117U4061
Protector 3/4" Texas Instr.		MRP30AEN-6
Protector 3/4" Electrica		T 0772/06
Cover	b	117U1021
Starting capacitor 320 µF	c	117U5040
Cord relief	d	117U0349
Cord relief capacitor	dc	117U0349
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

SC12G
Universal Compressor
R134a
115V 60Hz

Data Sheet (Replaces CD.44.A4.22)

General

Compressor (CU-plated steel connectors)	**SC12G**
Codenumber	104G7250
Codenumber compressor with oil cooler	104G7260



Approval mark

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-31 to 50 (-35 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

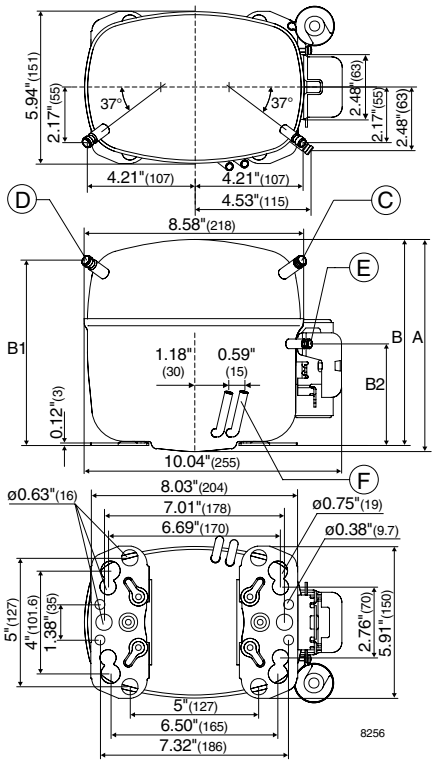
Displacement	cu.in. (cm^3)	0.78 (12.90)
Oil quantity	fl.oz. (cm^3)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	27.7 (12.6)

Motor

Motor size	watt	540
LRA (rated after 4 sec.UL984) HST	A	42.0
Cut-in current HST	A	42.0
Resistance, main and start winding (77°F)	Ω	1.0/4.3
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.23 (209)
		B	8.00 (203)
		B1	7.20 (183)
		B2	3.94 (100)
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



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	243	551	833	972	1507	2157	2924	3807	4808	5354	5930

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	216	488	739	861	1335	1911	2588	3367	4250	4730	5236

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC12G	58	132	199	232	360	515	698	907	1144	1273	1409

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	157	212	252	269	328	389	451	516	581	615	649

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	4.42	4.56	4.70	4.76	5.01	5.31	5.66	6.05	6.49	6.72	6.97

EER at LBP conditions (ASHRAE) **Btu/Wh**

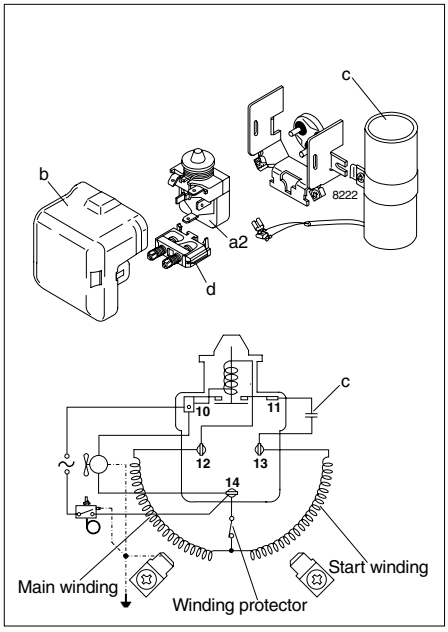
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	1.55	2.60	3.31	3.61	4.59	5.55	6.48	7.38	8.27	8.71	9.14

EER at HBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC12G	1.38	2.30	2.93	3.20	4.07	4.91	5.73	6.53	7.31	7.69	8.07

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC12G	0.37	0.62	0.79	0.86	1.10	1.33	1.55	1.76	1.97	2.07	2.17



Accessories

Devices	Fig.	SC12G
Starting relay	a2	117U6020
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

ASHRAE		EN 12900/CECOMAF
1. LBP	130°F (54,4°C)	55°C (131°F)
2.	90°F (32°C)	32°C (90°F)
3.	90°F (32°C)	55°C (131°F)
1. HBP	130°F (54,4 °C)	
2.	95°F (35°C)	
3.	115°F (46°C)	

SC15G
Universal Compressor
R134a
115V 60Hz

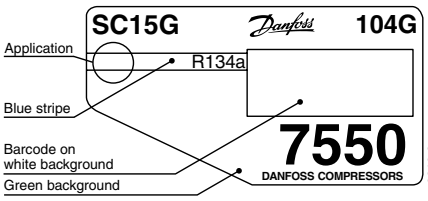
Data Sheet (Replaces CG.44.A1.22)

General

Compressor (CU-plated steel connectors)	**SC15G**
Codenumber	104G7550
Codenumber compressor with oil cooler	104G7560

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-31 to 50 (-35 to 10)
Voltage range	V/Hz	103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	O/F_1



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

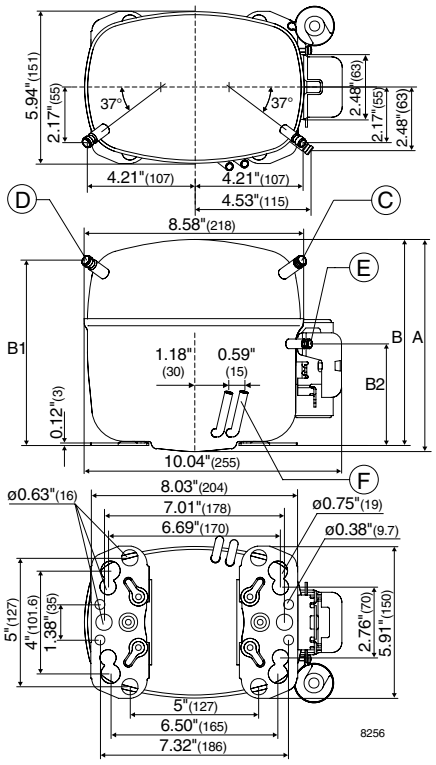
Displacement	cu.in. (cm^3)	0.93 (15.30)
Oil quantity	fl.oz. (cm^3)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	27.7 (12.6)

Motor

Motor size	watt	540
LRA (rated after 4 sec.UL984) HST	A	42.0
Cut-in current HST	A	42.0
Resistance, main and start winding (77°F)	Ω	1.0/4.3
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.23 (209)
		B	8.00 (203)
		B1	7.20 (183)
		B2	3.94 (100)
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



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	455	780	1088	1241	1837	2570	3440	4448	5595	6222	6884

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	403	692	965	1100	1628	2276	3045	3934	4945	5496	6078

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC15G	109	187	260	297	439	614	821	1060	1331	1479	1635

Power consumption **watt**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	175	252	306	329	408	486	566	645	726	766	807

Current consumption **A**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	4.45	4.70	4.91	5.02	5.40	5.85	6.35	6.91	7.52	7.84	8.18

EER at LBP conditions (ASHRAE) **Btu/Wh**

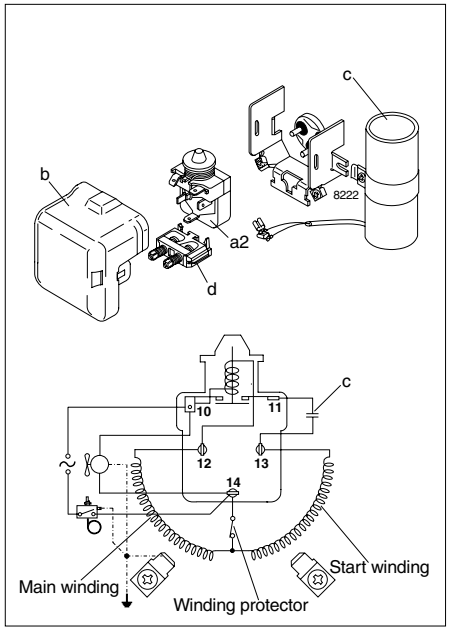
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	2.60	3.10	3.56	3.77	4.51	5.28	6.08	6.89	7.71	8.12	8.53

EER at HBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
SC15G	2.31	2.75	3.15	3.34	3.99	4.68	5.38	6.10	6.81	7.17	7.54

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-34.4	-28.9	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10
Comp.\°F	-30	-20	-13	-10	0	10	20	30	40	45	50
SC15G	0.62	0.74	0.85	0.90	1.08	1.26	1.45	1.64	1.83	1.93	2.03



Accessories

Devices	Fig.	SC15G
Starting relay	a2	117U6020
Cover	b	103N2008
Starting capacitor 240 µF	c	117U5023
Cord relief	d	103N1004
Mounting accessories	Ø in. (mm)	
Bolt joint for one compressor	5/8 (16)	118-1917
Bolt joint in quantities	5/8 (16)	118-1918
Snap-on in quantities	5/8 (16)	118-1919

Test conditions
1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature
Fan cooling F_1, 115V 60Hz

ASHRAE		EN 12900/CECOMAF
1. LBP	130°F (54,4°C)	55°C (131°F)
2.	90°F (32°C)	32°C (90°F)
3.	90°F (32°C)	55°C (131°F)
1. HBP	130°F (54,4 °C)	
2.	95°F (35°C)	
3.	115°F (46°C)	

SC18G
Universal Compressor
R134a
115V 60Hz

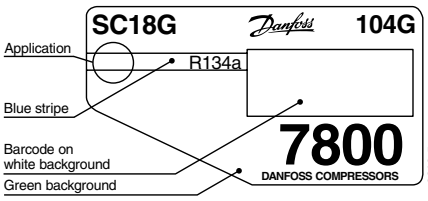
Data Sheet (Replaces CG.42.H2.22)

General

Compressor (CU-plated steel connectors)	**SC18G**
Codenumber	104G7800

Application

Application		LBP/HBP
Evaporating temperature range	°F (°C)	-13 to 59 (-25 to 15)
Voltage range	V/Hz	LBP: 95 - 135 /60 MBP: 95 - 135 /60 HBP: 103 - 127 /60
Motor type		CSIR
Max. ambient temperature	°F (°C)	110 (43)
Comp. cooling at max. ambient temperature	110°F (43°C)	F_2



Approval mark

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temp. equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary

Design

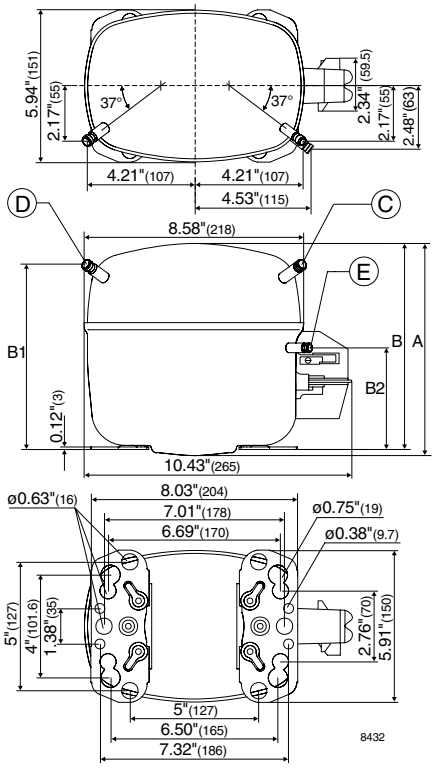
Displacement	cu.in. (cm^3)	1.08 (17.69)
Oil quantity	fl.oz. (cm^3)	20.3 (600)
Maximum refrigerant charge	oz. (g)	45.5 (1300)
Free gas vol. in compressor housing	fl.oz. (cm^3)	49.4 (1460)
Weight without electrical equipment	lbs. (kg)	30.2 (13.7)

Motor

Motor size	watt	755
LRA (rated after 4 sec.UL984) HST	A	53.0
Cut-in current HST	A	53.0
Resistance, main and start winding (77°F)	Ω	0.7/2.9
Approvals		UL984/CSA-C22.2

Dimensions

Height	in. (mm)	A	8.62 (219)
		B	8.39 (213)
		B1	7.60 (193)
		B2	4.33 (110)
Suction connector	location/I.D. in. (mm)	C	0.387-0.385 (9.7±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)
Compressors on a pallet	pcs.		60



Capacity at LBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	1142	1357	2112	2952	3908	5008	6285	6999	7768	9308

Capacity at HBP conditions (ASHRAE) **Btu/h**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	1015	1206	1877	2622	3469	4443	5570	6200	6878	8233

Capacity (EN 12900/CECOMAF) **watt**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
SC18G	264	315	495	695	921	1181	1481	1648	1829	2187

Power consumption **watt**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	374	404	504	599	691	780	868	912	956	1035

Current consumption **A**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	6.56	6.71	7.24	7.80	8.41	9.05	9.72	10.07	10.43	11.11

EER at LBP conditions (ASHRAE) **Btu/Wh**

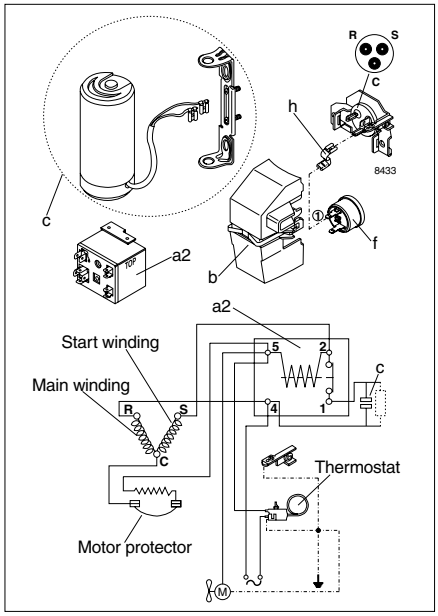
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	3.06	3.35	4.19	4.93	5.66	6.42	7.24	7.67	8.13	8.99

EER at HBP conditions (ASHRAE) **Btu/Wh**

Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
SC18G	2.72	2.98	3.73	4.38	5.02	5.70	6.42	6.80	7.20	7.95

COP (EN 12900/CECOMAF) **W/W**

Comp.\°C	-25	-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	15
Comp.\°F	-13	-10	0	10	20	30	40	45	50	59
SC18G	0.71	0.79	0.99	1.16	1.34	1.51	1.70	1.80	1.91	2.11



Accessories

Devices	Fig.	SC18G	
Starting relay	a2	117-7441	
Starting capacitor 410 µF	c	117U5028	
Cover	b	parts of compressor	(117U1021)
Protector	f		(117U3212)
Protector holder	h		(117U0438)
Mounting accessories	Ø in. (mm)		
Bolt joint for one compressor	5/8 (16)	118-1917	
Bolt joint in quantities	5/8 (16)	118-1918	
Snap-on in quantities	5/8 (16)	118-1919	

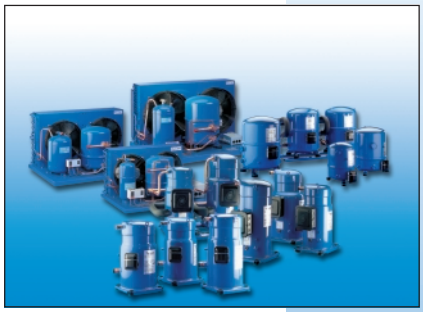
Test conditions
1. Condensing temperature
2. Ambient and suction gas temp.
3. Liquid temperature
Fan cooling F_2, 115V 60Hz

ASHRAE		EN 12900/CECOMAF
1. LBP	130°F (54,4°C)	55°C (131°F)
2.	90°F (32°C)	32°C (90°F)
3.	90°F (32°C)	55°C (131°F)
1. HBP	130°F (54,4 °C)	
2.	95°F (35°C)	
3.	115°F (46°C)	

The Danfoss product programme for the refrigeration industry contains:

Compressors for Refrigeration and Air Conditioning

A wide range of hermetic reciprocating compressors and scroll compressors as well as aircooled condensing units. The product range is applied in air conditioning units, water chillers and commercial refrigeration systems.



Compressors for Refrigerators and Freezers

Hermetic compressors and fan-cooled condensing units for household refrigeration units such as refrigerators and freezers, and for commercial installations such as sales counters and bottle coolers. Compressors for heating pump systems. 12 and 24 V compressors for refrigerators and freezers in commercial vehicles, buses, and boats.

Appliance Controls

For the regulation of refrigeration appliances and freezers Danfoss supply a CFC-free product range of electromechanical thermostats for refrigerators and electromechanical thermostats for refrigerators and freezers produced according to customer specification; Hermetic valves for refrigerator/freezer combinations and for energy saving applications; Service thermostats – for all refrigerating and freezing appliances.

Refrigeration and Air Conditioning Controls

With our full product range we cover all the requirements for mechanical and electronically controlled refrigeration systems. The functions cover: control, safety, system protection and monitoring. Our products are applied for all commercial- and industrial refrigeration applications as well as for air conditioning.

www.danfoss.com/compressors