

## Single Pack NF5.5FX 115-127V 60Hz CSIR

Single pack code number: **195B4156**

Position	Title	Code	Amount
1	Compressor NF5.5FX	105G5623	1
2	Starting relay (overload protector MRP36AEN-6)	117U4127	1
3	Starting capacitor (280 $\mu$ F 125V, 6.3mm)	117U5025	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor   M6   $\varnothing$ 16mm	118-1917	1

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## Model

Designation	<b>NF5.5FX</b>	115-127V/60Hz 1~	Sales code:	<b>105G5623</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R134a, R513A, 0</b>
Oil viscosity	32cST	Displacement	6,13cm <sup>3</sup> / 0,37cu.in
Oil quantity	268cm <sup>3</sup> / 9,1fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	2360cm <sup>3</sup> / 79,8fl.oz		
Weight	10kg / 22lbs		
Motor protection	external		
Winding resistance main	2Ω (at 25°C)		
Winding resistance aux	3,1Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



## General - Configurations with NF5.5FX

	<b>Conf. 1</b>	<b>Conf. 2</b>
Motorconfiguration	CSIR	CSIR
Power supply (nominal)	115-127V/60Hz	115-127V/60Hz
Number of phases	1	1
Voltage range	95-135V	95-135V
Approvals	UL, EAC	UL, EAC
Starting torque	HST	HST
Note	- / -	

## Applications with NF5.5FX

	<b>Conf. 1</b>	<b>Conf. 2</b>
Refrigerant	R134a	R513A
Application	LBP+MBP	LBP+MBP
System cooling	fan 1,5m/s	fan 1,5m/s
Hot gas defrost	- / -	- / -
Long interval pull down	OK	OK

## Electrical data - Configurations with NF5.5FX

	<b>Conf. 1</b>	<b>Conf. 2</b>
Starting device type	relay	relay
Run capacitor	- / -	- / -
Start capacitor	280μF	280μF
LRA (locked rotor amps / 4s/ U(N))	22,2A	22,2A
RLA (rated load amps / 1s/ U(N))	3,7A	3,7A
Cut in current (U(N))		

## Model

Designation

**NF5.5FX**

115-127V/60Hz 1~

Sales code:

**105G5623**

## Compressor dimensions

Housing	A Height	197mm / 7,76in
	B Height	191mm / 7,52in
	C Length shell	205mm / 8,07in
	D Length w. cover	254mm / 10in
	E Width	166mm / 6,54in

Connectors		Suction	Discharge	Process
		X	Y	Z
Diameter	[mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
	(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	0°	0°	0°
Vertical angle	±2°	15°	35°	155°
Position l/h/w	[mm]	126/76/78	133/103/54	-107/94/72
	[in]	4,9/3/3,1	5,2/4/2,1	-4,2/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5



## Compressor fixation



### Bolt joint



### Snap-on



## Mounting accessories

	one comp.	multi pack
Bolt joint   M6   ø16mm	118-1917	118-1918
Bolt joint   ø1/4"   ø16mm	118-1946	
Bolt joint   ø1/4"   ø19mm	118-1949	
Snap-on   ø7,3   ø16mm	118-1947	118-1919

## Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

### Model

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### Configuration

Motorconfiguration	CSIR
Power supply (nominal)	115-127V/60Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135V
Starting torque	HST
Approvals	UL
	EAC

### Electrical accessories / wiring diagram



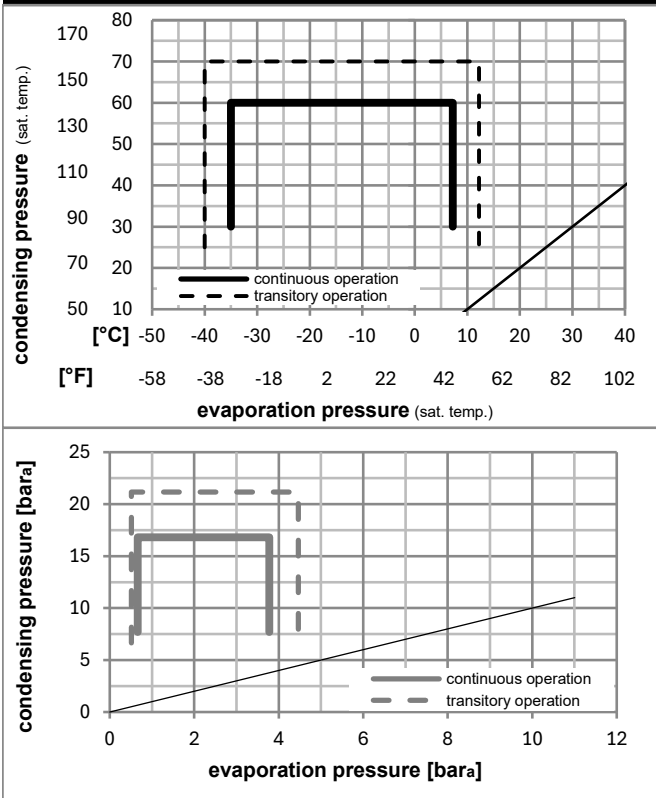
### Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: fan 3m/s

### Operation pressure range



### Components

a2	current relay (MRP36AEN-6)	117U4127
c	start capacitor (280µF)	117U5025
b	plastic cover	117U1021
d/dc	cord relief	117U0349
d/dc	cord relief	117U0349

### Alternative components

a2	current relay (MRP36AEN-6)	117U4157
c	start capacitor (280µF)	117U5074

## Model

Designation **NF5.5FX** **115-127V/60Hz** Conf. 1 Sales code: **105G5623**

## Optimization + standard conditions

R134a, 115V/60Hz, CSIR, fan 3m/s, UL, EAC

	pe	pc	RGT	Tliq	Cooling capacity	COP	EER	P1	I	Ref. mass flow	
	[°C]	[°C]	[°C]	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
ASHRAE LBP	-23	54	32	32	203,9	1,21	4,13	168,8	2,50	3,96	
	[°F]	[°F]	[°F]	[°F]	[Btu/h]	[kcal/h]	[kcal/Wh]	[W]	[A]	[kg/h]	
	-10	130	90	90	696	1,21	4,13	168,8	2,50	3,96	
cecomaf LBP	-25	55	32	55	148,4	0,93	3,19	158,8	2,45	3,55	
	[°F]	[°F]	[°F]	[°F]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	-13	131	90	131	507	0,93	3,19	158,8	2,45	3,55	
EN12900 LBP	-35	40	20	40	100,9	0,95	3,23	106,7	2,26	2,21	
	[°F]	[°F]	[°F]	[°F]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	-31	104	68	104	345	0,95	3,23	106,7	2,26	2,21	
ASHRAE MBP	-7	54	35	46	425,8	1,67	5,71	254,7	3,04	9,29	
	[°F]	[°F]	[°F]	[°F]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	20	130	95	115	1454	1,67	5,71	254,7	3,04	9,29	
cecomaf MBP	-10	55	32	55	330,3	1,38	4,71	239,5	2,93	7,99	
	[°F]	[°F]	[°F]	[°F]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	14	131	90	131	1128	1,38	4,71	239,5	2,93	7,99	
EN12900 MBP	-10	45	20	45	375,5	1,66	5,68	225,9	2,83	8,79	
	[°F]	[°F]	[°F]	[°F]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
	14	113	68	113	1282	1,66	5,68	225,9	2,83	8,79	

## Performance tables

R134a, 115V/60Hz, CSIR, fan 3m/s, UL, EAC

	pe	Cooling capacity	COP	EER	P1	I	m
	[°C]	[W]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-35	91,0	0,88	3,00	103,7	2,22	1,96
cond. pressure	-23	199,5	1,20	4,08	166,9	2,49	4,33
pc= 45/113	-15	308,1	1,50	5,13	204,9	2,70	6,71
return gas temp.	-9	399,4	1,75	5,98	228,2	2,85	8,75
RGT= 32/90	-4	508,9	2,03	6,93	250,6	3,00	11,20
liquid temp	0	597,5	2,25	7,67	266,1	3,12	13,21
Tliq= 45/113	7,2	791,4	2,68	9,15	295,3	3,34	17,68
[°C / °F]	-35	65,9	0,71	2,43	92,5	2,16	1,57
cond. pressure	-23	164,6	0,98	3,33	168,7	2,50	3,94
pc= 55/131	-15	259,6	1,21	4,13	214,5	2,77	6,25
return gas temp	-9	338,9	1,40	4,78	242,1	2,95	8,20
RGT= 32/90	-4	433,9	1,62	5,52	268,3	3,15	10,56
liquid temp	0	510,9	1,79	6,10	286,1	3,29	12,50
Tliq= 55/131	7,2	680,1	2,13	7,29	318,6	3,56	16,82

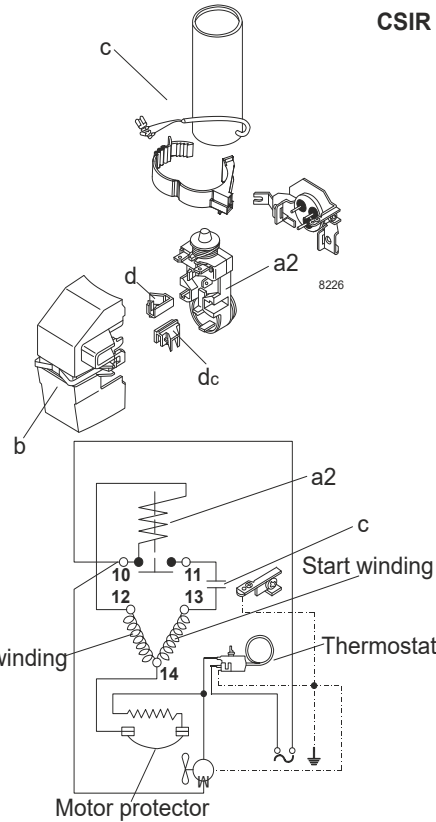
## Model

Designation	<b>NF5.5FX</b>	<b>115-127V/60Hz</b>	<b>Conf. 2</b>	Sales code:	<b>105G5623</b>
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## Configuration

Motorconfiguration	CSIR
Power supply (nominal)	115-127V/60Hz 1~
Refrigerant	R513A
Application	LBP+MBP
Voltage range	95-135V
Starting torque	HST
Approvals	UL
	EAC

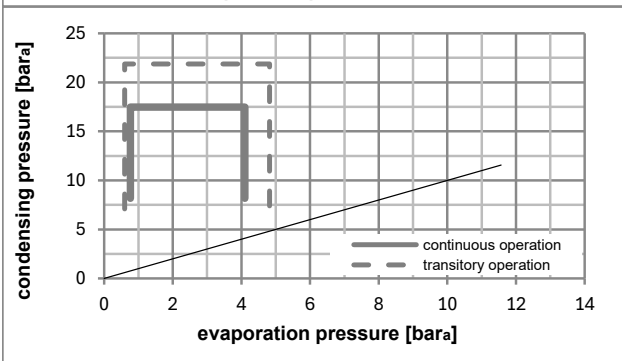
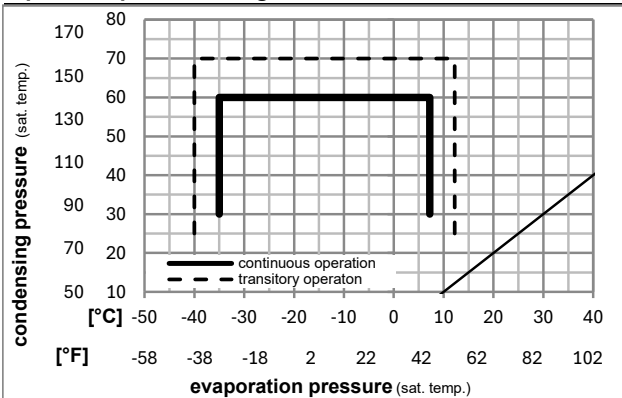
## Electrical accessories / wiring diagram



## Ambient/ machine room temperatures minimum /maximum

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Compressor cooling:	fan 1,5m/s

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## Optimization + standard conditions

R513A, 115V/60Hz, CSIR, fan 1,5m/s, UL, EAC

		Evaporating pressure (saturation temperature)				Cooling capacity			COP			EER			Power consumption			
		Condensing pressure (saturation temperature)		Return gas temp.		Liquid temp.					Current consumption			Ref. mass flow				
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m	[W]	[A]	[kg/h]	
[°C]	-23	54	32	32	225,3	769	193,9	1,24	4,23	1,06	182,0	3,00	4,85	ASHRAE LBP				
[°F]	-10	130	90	90														
[°C]	-25	55	32	55	159,6	545	137,4	0,93	3,18	0,80	171,7	2,96	4,37	cecomaf LBP				
[°F]	-13	131	90	131														
[°C]	-35	40	20	40	112,9	386	97,2	0,98	3,34	0,84	115,5	2,75	2,79	EN12900 LBP				
[°F]	-31	104	68	104														
[°C]	-7	54	35	46	446,9	1526	384,6	1,66	5,67	1,43	269,4	3,45	10,95	ASHRAE MBP				
[°F]	20	130	95	115														
[°C]	-10	55	32	55	342,6	1170	294,9	1,35	4,60	1,16	254,3	3,36	9,47	cecomaf MBP				
[°F]	14	131	90	131														
[°C]	-10	45	20	45	392,5	1340	337,7	1,64	5,60	1,41	239,4	3,28	10,40	EN12900 MBP				
[°F]	14	113	68	113														

## Performance tables

R513A, 115V/60Hz, CSIR, fan 1,5m/s, UL, EAC

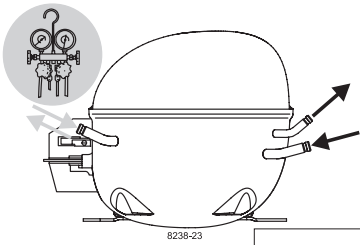
	pe		Cooling capacity			COP			EER			P1			I			m		
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]	[W]	[A]	[kg/h]			
[°C / °F]	-35	-31	102,6	350	88,3	0,91	3,11	0,78	112,7	2,74	2,49									
cond. pressure	-23	-10	216,0	738	185,9	1,20	4,12	1,04	179,3	2,98	5,27									
pc= 45/113	-15	5	327,5	1119	281,9	1,50	5,13	1,29	218,2	3,17	8,03									
return gas temp.	-9	15	420,4	1436	361,8	1,74	5,94	1,50	241,7	3,29	10,34									
RGT= 32/90	-4	25	530,8	1813	456,8	2,01	6,87	1,73	264,0	3,42	13,12									
liquid temp	0	32	619,8	2117	533,4	2,22	7,58	1,91	279,2	3,52	15,37									
Tliq= 45/113	7,2	45	813,3	2778	700,0	2,64	9,02	2,27	307,9	3,70	20,34									
[°C / °F]	-35	-31	74,7	255	64,3	0,74	2,51	0,63	101,5	2,69	2,04									
cond. pressure	-23	-10	176,1	601	151,5	0,97	3,30	0,83	182,0	3,00	4,83									
pc= 55/131	-15	5	272,0	929	234,1	1,19	4,06	1,02	229,0	3,23	7,49									
return gas temp	-9	15	351,2	1199	302,2	1,37	4,67	1,18	257,0	3,38	9,72									
RGT= 32/90	-4	25	445,3	1521	383,2	1,57	5,37	1,35	283,0	3,54	12,38									
liquid temp	0	32	521,2	1780	448,5	1,73	5,92	1,49	300,5	3,65	14,55									
Tliq= 55/131	7,2	45	687,2	2347	591,4	2,07	7,06	1,78	332,3	3,87	19,37									



# NF Compressors







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