

Model  
NF8.4FX.2

Sales code:  
105G5913

Compressor Data

|                            |                      |
|----------------------------|----------------------|
| Refrigerant(s)             | R134a                |
| Refr. charge - tech. limit | 400g / 14.11oz       |
| Weight                     | 10.00 kg / 22.05lbs  |
| Displacement               | 8.35 cm3 / 0.51cu.in |
| Compressors on pallet      | 80                   |



General – Configurations With NF8.4FX.2

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSIR            |
| Power supply (nominal)  | 115-127 V/60 Hz |
| Number of phases        | 1               |
| Voltage range           | 95-135 V        |
| Approvals               | UL              |
| Starting torque         | HST             |
| Refrigerant             | R134a           |
| Application             | LBP+MBP         |
| Long interval pull down | OK              |

Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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### Compressor Design

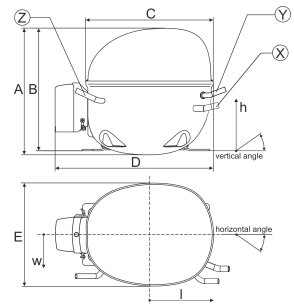
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | POE                                | Winding resistance main | 1.7 Ohm       |
| Oil viscosity         | 32cSt                              | Winding resistance aux  | 6.2 Ohm       |
| Oil quantity          | 268 / 9.06fl.oz                    | Max. winding temp.      | 125 °C        |
| Free gas volume comp. | 2,360 cm <sup>3</sup> / 79.80fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | external                           |                         |               |

### Compressor Dimensions

#### Housing

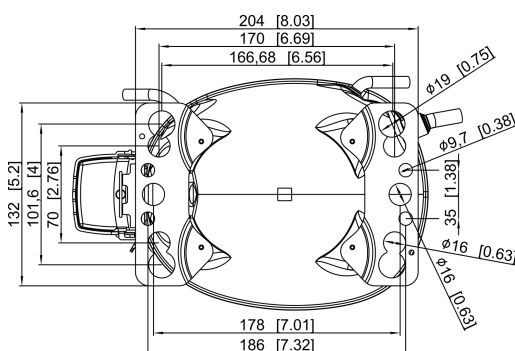
|                   |                 |
|-------------------|-----------------|
| A Height          | 197mm / 7.76in  |
| B Height          | 191mm / 7.52in  |
| C Length shell    | 205mm / 8.07in  |
| D Length w. cover | 254mm / 10.00in |
| E Width           | 166mm / 6.54in  |

[Find 3D Model here](#)

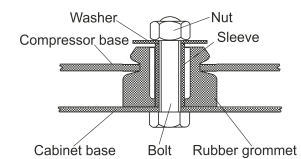


| Connectors            | Suction X                        | Discharge Y                     | Process Z                        |
|-----------------------|----------------------------------|---------------------------------|----------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in       | øi 6.41–6.59 / 0.25–0.26in      | øi 6.41–6.59 / 0.25–0.26in       |
| Material              | CU                               | CU                              | CU                               |
| Horizontal angle ±2°  | 0°                               | 0°                              | 0°                               |
| Vertical angle ±2°    | 15°                              | 35°                             | 155°                             |
| Position l/h/w [mm]   | 125.5/75.5/78 / 4.94/2.97/3.07in | 133/102.5/54 / 5.24/4.04/2.13in | -107/93.5/72 / -4.21/3.68/2.83in |
| Straight tube l. [mm] | 12 / 0.47in                      | 12 / 0.47in                     | 12 / 0.47in                      |

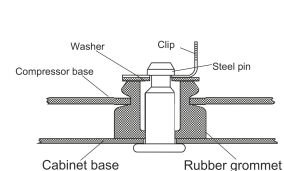
### Mounting Accessories



#### Bolt joint



#### Snap-on



Dimensions in mm [in]

|                            | 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   |

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Configuration 1

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Configuration

|                        |                    |
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| Power supply (nominal) | 115-127 V/60 Hz 1~ |
| Refrigerant            | R134a              |
| Application            | LBP+MBP            |
| Voltage range          | 95-135 V           |
| Starting torque        | HST                |
| Approvals              | UL                 |
| Starting device type   | relay              |
| Run capacitor          | -/-                |
| Start capacitor        | 280 $\mu$ F        |

Ambient/ machine room temperatures minimum /maximum

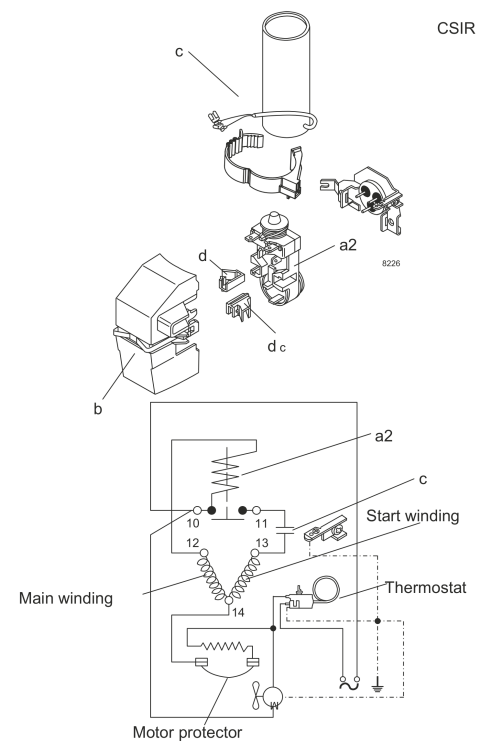
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

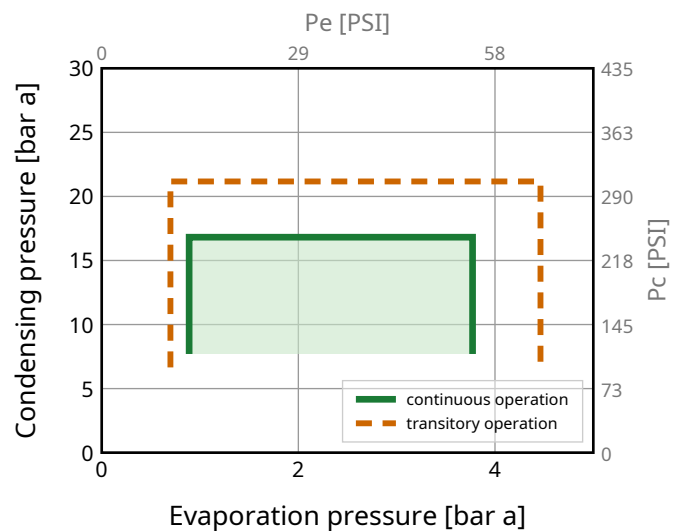
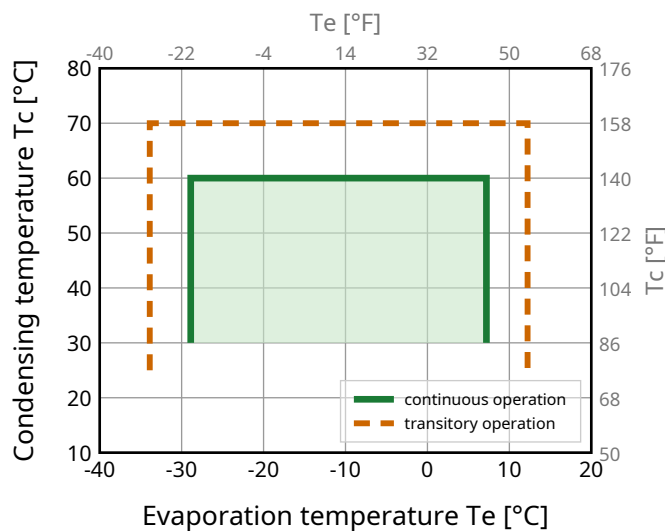
a2 current relay (MRT22AFZ-6) 117U4129

c start capacitor (280 $\mu$ F) 117U5025

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Standard Conditions

R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

| pe           | pc            | RGT          | Tliq         | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |             |
|--------------|---------------|--------------|--------------|------------------|---------|----------|-------|----------|-----|------|--------|-------------|
| [°C]<br>[°F] | [°C]<br>[°F]  | [°C]<br>[°F] | [°C]<br>[°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90   | 302              | 1031    | 260      | 1.22  | 4.16     | 248 | 3.68 | 5.86   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 221              | 753     | 190      | 0.94  | 3.19     | 236 | 3.63 | 5.26   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 150              | 513     | 129      | 0.83  | 2.84     | 180 | 3.42 | 3.29   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 620              | 2117    | 534      | 1.72  | 5.87     | 361 | 4.31 | 13.51  | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 484              | 1650    | 416      | 1.43  | 4.87     | 339 | 4.17 | 11.66  | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 544              | 1857    | 468      | 1.69  | 5.77     | 322 | 4.06 | 12.70  | EN12900 MBP |

Performance Tables

R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

| pe   |      | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |
|------|------|------------------|---------|----------|-------|----------|-----|------|--------|
| [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |
| -30  | -22  | 198              | 676     | 170      | 0.95  | 3.26     | 208 | 3.49 | 4.28   |
| -20  | -4   | 353              | 1203    | 303      | 1.32  | 4.52     | 266 | 3.74 | 7.65   |
| -10  | 14   | 564              | 1924    | 485      | 1.75  | 5.97     | 322 | 4.06 | 12.31  |
| 0    | 32   | 844              | 2878    | 725      | 2.21  | 7.52     | 382 | 4.47 | 18.61  |
| 7.2  | 45   | 1094             | 3733    | 941      | 2.52  | 8.62     | 433 | 4.81 | 24.38  |

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

|     |     |     |      |     |      |      |     |      |       |
|-----|-----|-----|------|-----|------|------|-----|------|-------|
| -30 | -22 | 160 | 545  | 137 | 0.80 | 2.74 | 199 | 3.49 | 3.80  |
| -20 | -4  | 294 | 1002 | 253 | 1.08 | 3.70 | 271 | 3.79 | 7.03  |
| -10 | 14  | 484 | 1650 | 416 | 1.43 | 4.87 | 339 | 4.17 | 11.66 |
| 0   | 32  | 741 | 2528 | 637 | 1.80 | 6.16 | 411 | 4.64 | 18.07 |
| 7.2 | 45  | 975 | 3325 | 838 | 2.08 | 7.09 | 469 | 5.03 | 24.03 |