

Model  
NF5.5CLX

Sales code:  
105F1611

Compressor Data

|                            |                      |
|----------------------------|----------------------|
| Refrigerant(s)             | R404A                |
| Refr. charge - tech. limit | 400g / 14.11oz       |
| Weight                     | 10.00 kg / 22.05lbs  |
| Displacement               | 6.13 cm3 / 0.37cu.in |
| Compressors on pallet      | 80                   |



General – Configurations With NF5.5CLX

|                         |              |
|-------------------------|--------------|
| -                       | Conf. 1      |
| Motor configuration     | CSIR         |
| Power supply (nominal)  | 115 V/60 Hz  |
| Number of phases        | 1            |
| Voltage range           | 95-135 V     |
| Approvals               | CCC, EAC, UL |
| Starting torque         | HST          |
| Refrigerant             | R404A        |
| Application             | LBP+MBP      |
| Long interval pull down | OK           |

Application Notes

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

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### Compressor Design

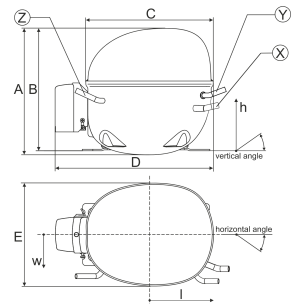
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | POE                                | Winding resistance main | 1.7 Ohm       |
| Oil viscosity         | 32cSt                              | Winding resistance aux  | 6.2 Ohm       |
| Oil quantity          | 298 / 10.08fl.oz                   | Max. winding temp.      | 125 °C        |
| Free gas volume comp. | 2,280 cm <sup>3</sup> / 77.10fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | internal                           |                         |               |

### Compressor Dimensions

#### Housing

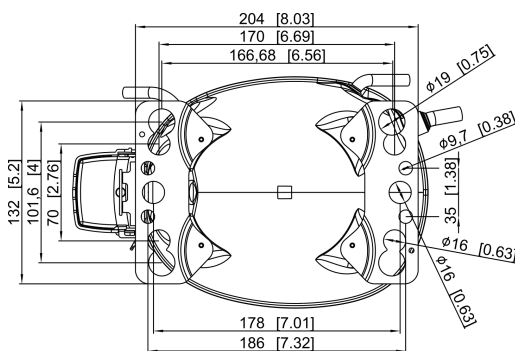
|                   |                 |
|-------------------|-----------------|
| A Height          | 197mm / 7.76in  |
| B Height          | 191mm / 7.52in  |
| C Length shell    | 205mm / 8.07in  |
| D Length w. cover | 254mm / 10.00in |
| E Width           | 166mm / 6.54in  |

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| 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                      |

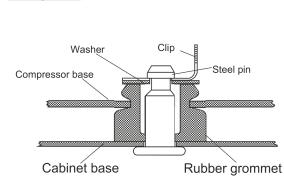
### Mounting Accessories



#### 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

|                                    |                       |
|------------------------------------|-----------------------|
| Motor configuration                | <b>CSIR</b>           |
| Power supply (nominal)             | <b>115 V/60 Hz 1~</b> |
| Refrigerant                        | <b>R404A</b>          |
| Application                        | <b>LBP+MBP</b>        |
| Voltage range                      | <b>95-135 V</b>       |
| Starting torque                    | <b>HST</b>            |
| Approvals                          | <b>CCC, EAC, UL</b>   |
| Starting device type               | <b>relay</b>          |
| Run capacitor                      | <b>-/-</b>            |
| Start capacitor                    | <b>280 µF</b>         |
| LRA (locked rotor amps / 4s/ U(N)) | <b>30.8 A</b>         |
| RLA (rated load amps / 1s/ U(N))   | <b>4.7 A</b>          |

### Ambient/ machine room temperatures minimum /maximum

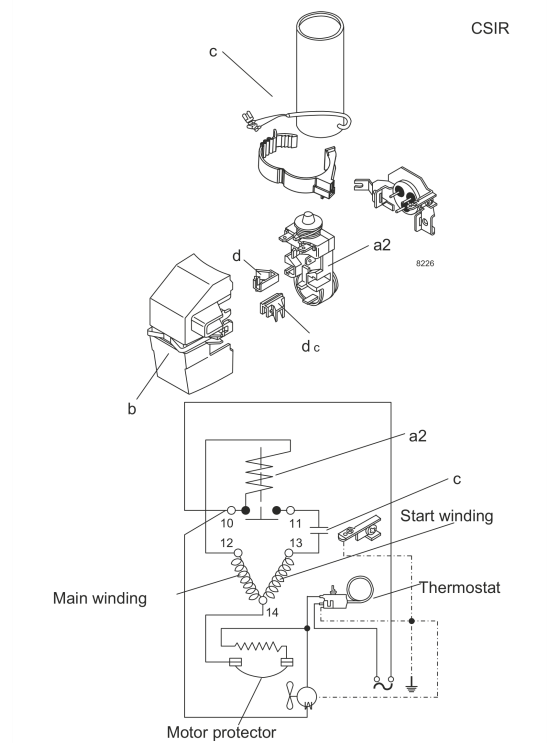
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

### System Cooling

fan 1,5m/s

### Electrical Accessories / Wiring Diagram



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### Components

**a2** relay (protector: TI MRP30AEN-6) 117U4061

**c** start capacitor (280µF) 117U5025

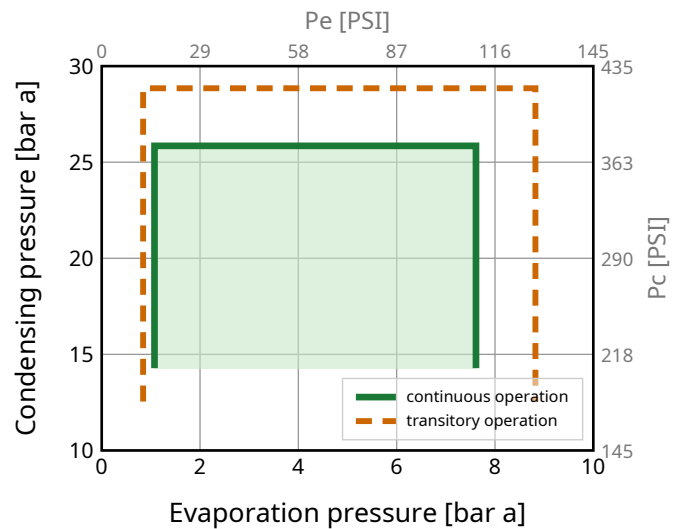
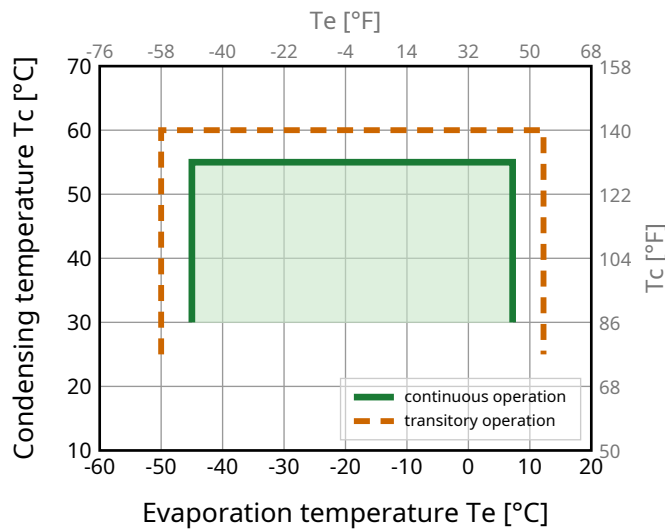
**b** plastic cover + clamp 117U1021

**d/dc** cord relief 117U0349

### Alternative components

**b** assy. terminal board 6.3mm 117U1024

### Operation Pressure Range



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Standard Conditions

R404A, 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   | 366              | 1249    | 315      | 1.23  | 4.20     | 298 | 3.97 | 8.51   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 248              | 848     | 214      | 0.87  | 2.97     | 286 | 3.90 | 7.75   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 203              | 694     | 175      | 0.95  | 3.23     | 215 | 3.52 | 5.51   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 653              | 2228    | 562      | 1.53  | 5.21     | 427 | 4.81 | 17.94  | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 490              | 1672    | 421      | 1.22  | 4.17     | 401 | 4.63 | 15.66  | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 569              | 1942    | 490      | 1.49  | 5.08     | 382 | 4.48 | 17.11  | EN12900 MBP |

Performance Tables

R404A, 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] |
| -45  | -49  | 97               | 332     | 84       | 0.64  | 2.17     | 153 | 3.35 | 2.58   |
| -40  | -40  | 140              | 477     | 120      | 0.76  | 2.58     | 185 | 3.43 | 3.71   |
| -30  | -22  | 249              | 851     | 214      | 1.01  | 3.44     | 247 | 3.67 | 6.68   |
| -20  | -4   | 401              | 1367    | 345      | 1.29  | 4.39     | 312 | 4.02 | 10.85  |
| -10  | 14   | 604              | 2061    | 519      | 1.58  | 5.39     | 382 | 4.48 | 16.60  |
| 0    | 32   | 869              | 2966    | 748      | 1.88  | 6.40     | 463 | 5.04 | 24.41  |
| 7.2  | 45   | 1105             | 3770    | 950      | 2.08  | 7.11     | 530 | 5.52 | 31.66  |

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

|     |     |     |      |     |      |      |     |      |       |
|-----|-----|-----|------|-----|------|------|-----|------|-------|
| -45 | -49 | 66  | 224  | 57  | 0.46 | 1.58 | 142 | 3.31 | 2.01  |
| -40 | -40 | 100 | 342  | 86  | 0.56 | 1.92 | 178 | 3.42 | 3.08  |
| -30 | -22 | 190 | 650  | 164 | 0.76 | 2.60 | 250 | 3.71 | 5.90  |
| -20 | -4  | 317 | 1081 | 272 | 0.98 | 3.35 | 322 | 4.12 | 9.95  |
| -10 | 14  | 490 | 1672 | 421 | 1.22 | 4.17 | 401 | 4.63 | 15.66 |
| 0   | 32  | 720 | 2457 | 619 | 1.47 | 5.03 | 489 | 5.25 | 23.59 |
| 7.2 | 45  | 927 | 3163 | 797 | 1.66 | 5.65 | 560 | 5.76 | 31.10 |