

Model  
SCE15MNX

Sales code:  
104H8589

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R290                  |
| Refr. charge - tech. limit | 450g / 15.87oz        |
| Weight                     | 14.20 kg / 31.31lbs   |
| Displacement               | 15.28 cm3 / 0.93cu.in |
| Compressors on pallet      | 80                    |



General - Configurations With SCE15MNX

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSIR            |
| Power supply (nominal)  | 208-230 V/60 Hz |
| Number of phases        | 1               |
| Voltage range           | 187-253 V       |
| Approvals               | UL, KC, CB      |
| Starting torque         | HST             |
| Refrigerant             | R290            |
| Application             | MBP             |
| Hot gas defrost         | OK              |
| Long interval pull down | OK              |

Application Notes

- Protector, relay and cover are 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

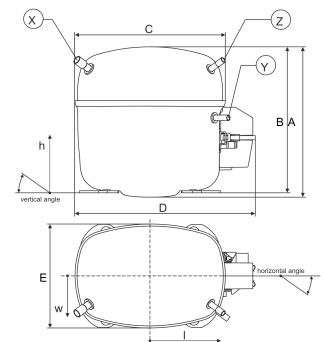
|                       |                                          |                         |                      |
|-----------------------|------------------------------------------|-------------------------|----------------------|
| Oil type              | <b>POE</b>                               | Winding resistance main | <b>3.100 Ohm</b>     |
| Oil viscosity         | <b>32cSt</b>                             | Winding resistance aux  | <b>15.20 Ohm</b>     |
| Oil quantity          | <b>541 / 18.29fl.oz</b>                  | Max. winding temp.      | <b>125 °C</b>        |
| Free gas volume comp. | <b>1,460 cm<sup>3</sup> / 49.37fl.oz</b> | Max. discharge temp.    | <b>130°C / 266°F</b> |
| Motor protection      | <b>external</b>                          |                         |                      |

### Compressor Dimensions

#### Housing

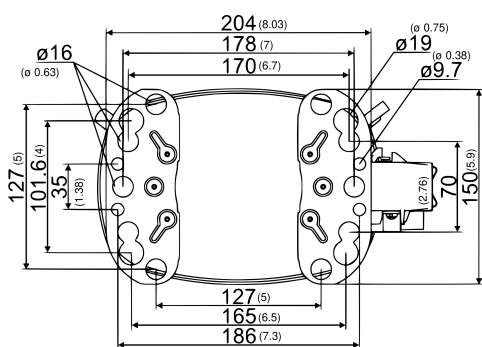
|                   |                        |
|-------------------|------------------------|
| A Height          | <b>219mm / 8.62in</b>  |
| B Height          | <b>213mm / 8.39in</b>  |
| C Length shell    | <b>218mm / 8.58in</b>  |
| D Length w. cover | <b>255mm / 10.04in</b> |
| E Width           | <b>151mm / 5.94in</b>  |

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| Connectors            | Suction X                     | Discharge Y                   | Process Z                       |
|-----------------------|-------------------------------|-------------------------------|---------------------------------|
| Diameter [mm]         | øi 9.54–9.72 / 0.38–0.38in    | 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°  | 37°                           | 37°                           | 143°                            |
| Vertical angle ±2°    | 30°                           | 0°                            | 150°                            |
| Position l/h/w [mm]   | 107/193/55 / 4.21/7.60/2.17in | 115/110/63 / 4.53/4.33/2.48in | -107/193/55 / -4.21/7.60/2.17in |
| Straight tube l. [mm] | 12 / 0.47in                   | 12 / 0.47in                   | 12 / 0.47in                     |

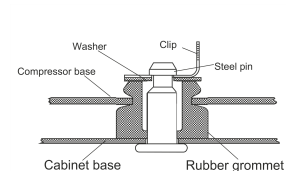
### Mounting Accessories



#### 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

|                                    |                           |
|------------------------------------|---------------------------|
| Motor configuration                | <b>CSIR</b>               |
| Power supply (nominal)             | <b>208-230 V/60 Hz 1~</b> |
| Refrigerant                        | <b>R290</b>               |
| Application                        | <b>MBP</b>                |
| Voltage range                      | <b>187-253 V</b>          |
| Starting torque                    | <b>HST</b>                |
| Approvals                          | <b>UL, KC, CB</b>         |
| Starting device type               | <b>relay</b>              |
| Run capacitor                      | <b>-/-</b>                |
| Start capacitor                    | <b>60 µF</b>              |
| LRA (locked rotor amps / 4s/ U(N)) | <b>23.6 A</b>             |
| RLA (rated load amps / 1s/ U(N))   | <b>4.5 A</b>              |
| Cut in current (U(N))              | <b>23.6 A</b>             |

**Ambient/ machine room temperatures minimum /maximum**

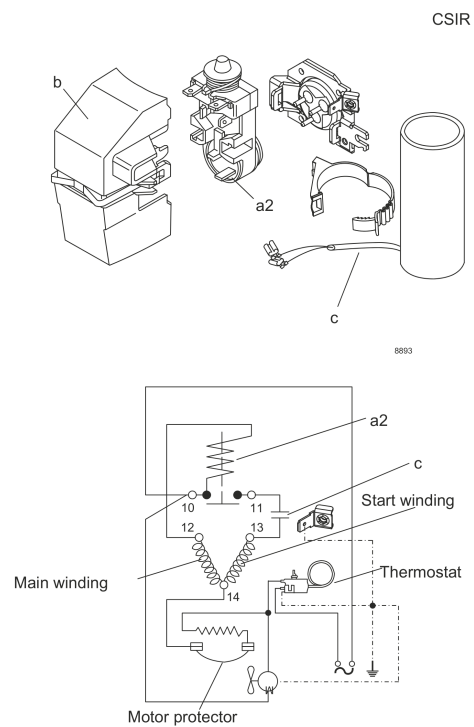
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

**System Cooling**

fan 3m/s

Electrical Accessories / Wiring Diagram



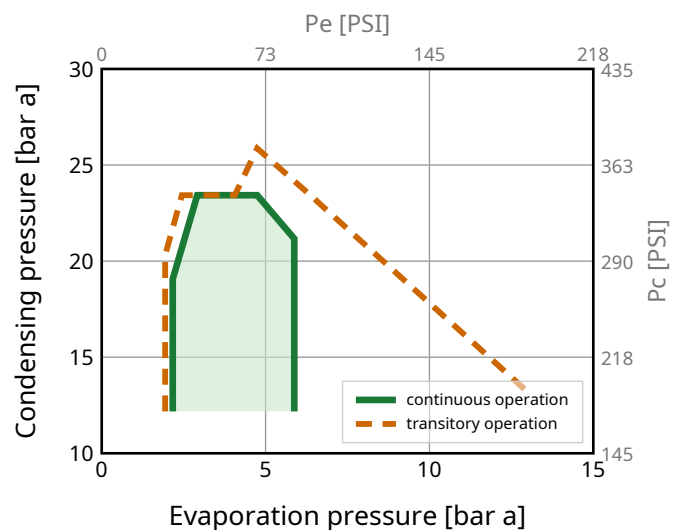
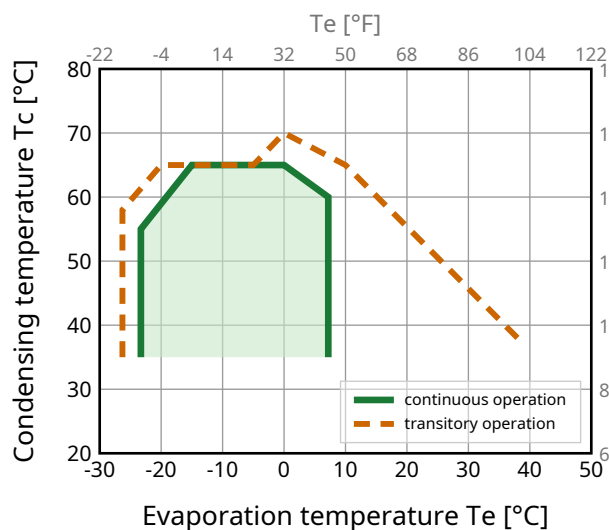
**Components (relay + cover: pre-assembled)**

**a2** assy. relay + ext. protector (T1116) 117U7401

**c** start capacitor (60µF, 6.3mm, 82kOhm) 117U5076

**b** plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 Hz, CSIR, fan 3m/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] |             |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115   | 1535             | 5236    | 1320     | 2.03  | 6.94     | 755 | 4.19 | 17.57  | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131     | 1209             | 4125    | 1040     | 1.70  | 5.78     | 713 | 4.04 | 15.38  | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113     | 1362             | 4647    | 1171     | 2.01  | 6.86     | 678 | 3.90 | 16.76  | EN12900 MBP |
| -6.7<br>20   | 48.8<br>119.8 | 18.3<br>64.9 | 48.8<br>119.8 | 1451             | 4950    | 1248     | 1.99  | 6.77     | 731 | 4.10 | 18.86  | ARI540 MBP  |
| -10<br>14    | 45<br>113     | 32<br>89.6   | 45<br>113     | 1416             | 4831    | 1218     | 2.09  | 7.13     | 678 | 3.90 | 16.26  | opt MBP     |
| -23.3<br>-10 | 45<br>113     | 32.2<br>90   | 32.2<br>90    | 876              | 2988    | 753      | 1.71  | 5.82     | 514 | 3.38 | 8.89   | opt LBP     |

Performance Tables

R290, 230 V/60 Hz, CSIR, fan 3m/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] |
| -23.3 | -10  | 784              | 2675    | 674      | 1.53  | 5.21     | 514 | 3.38 | 8.90   |
| -20   | -4   | 926              | 3160    | 796      | 1.66  | 5.67     | 557 | 3.52 | 10.54  |
| -15   | 5    | 1159             | 3953    | 996      | 1.87  | 6.37     | 620 | 3.72 | 13.24  |
| -10   | 14   | 1416             | 4831    | 1218     | 2.09  | 7.13     | 678 | 3.90 | 16.26  |
| -5    | 23   | 1702             | 5807    | 1464     | 2.35  | 8.01     | 725 | 4.07 | 19.66  |
| 0     | 32   | 2020             | 6893    | 1737     | 2.66  | 9.07     | 760 | 4.19 | 23.49  |
| 5     | 41   | 2375             | 8105    | 2043     | 3.05  | 10.42    | 778 | 4.27 | 27.84  |
| 7.2   | 45   | 2544             | 8681    | 2188     | 3.26  | 11.13    | 780 | 4.28 | 29.93  |

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

|       |     |      |      |      |      |      |     |      |       |
|-------|-----|------|------|------|------|------|-----|------|-------|
| -23.3 | -10 | 631  | 2153 | 543  | 1.22 | 4.16 | 518 | 3.38 | 7.92  |
| -20   | -4  | 760  | 2594 | 654  | 1.34 | 4.57 | 568 | 3.54 | 9.57  |
| -15   | 5   | 973  | 3319 | 837  | 1.51 | 5.17 | 642 | 3.80 | 12.30 |
| -10   | 14  | 1209 | 4125 | 1040 | 1.70 | 5.78 | 713 | 4.04 | 15.38 |
| -5    | 23  | 1473 | 5027 | 1267 | 1.90 | 6.47 | 777 | 4.27 | 18.86 |
| 0     | 32  | 1769 | 6036 | 1521 | 2.13 | 7.26 | 831 | 4.46 | 22.81 |
| 5     | 41  | 2101 | 7168 | 1807 | 2.41 | 8.22 | 872 | 4.60 | 27.33 |
| 7.2   | 45  | 2259 | 7708 | 1943 | 2.55 | 8.71 | 884 | 4.65 | 29.51 |