

Model  
SCE15CNLX

Sales code:  
104H8588

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 SCE15CNLX

|                        |                 |
|------------------------|-----------------|
| -                      | 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            | LBP             |
| Hot gas defrost        | 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

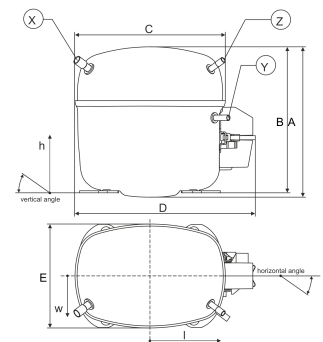
|                       |                                          |                         |                      |
|-----------------------|------------------------------------------|-------------------------|----------------------|
| Oil type              | <b>POE</b>                               | Winding resistance main | <b>3.500 Ohm</b>     |
| Oil viscosity         | <b>32cSt</b>                             | Winding resistance aux  | <b>20.70 Ohm</b>     |
| Oil quantity          | <b>550 / 18.60fl.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>135°C / 275°F</b> |
| Motor protection      | <b>external</b>                          |                         |                      |

### Compressor Dimensions

#### Housing

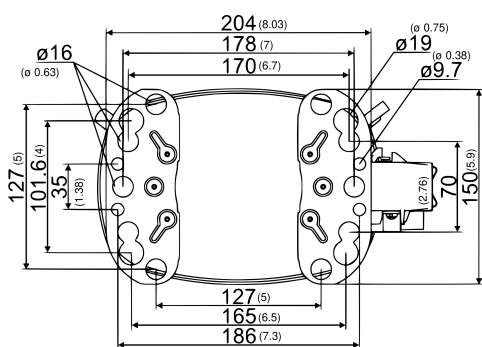
|                   |                        |
|-------------------|------------------------|
| A Height          | <b>219mm / 8.62in</b>  |
| B Height          | <b>213mm / 8.39in</b>  |
| C Length shell    | <b>218mm / 8.58in</b>  |
| D Length w. cover | <b>255mm / 10.04in</b> |
| E Width         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

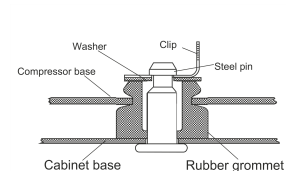
### Mounting Accessories



#### 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>LBP</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>20.9 A</b>             |
| RLA (rated load amps / 1s/ U(N))   | <b>3.8 A</b>              |
| Cut in current (U(N))              | <b>20.9 A</b>             |

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

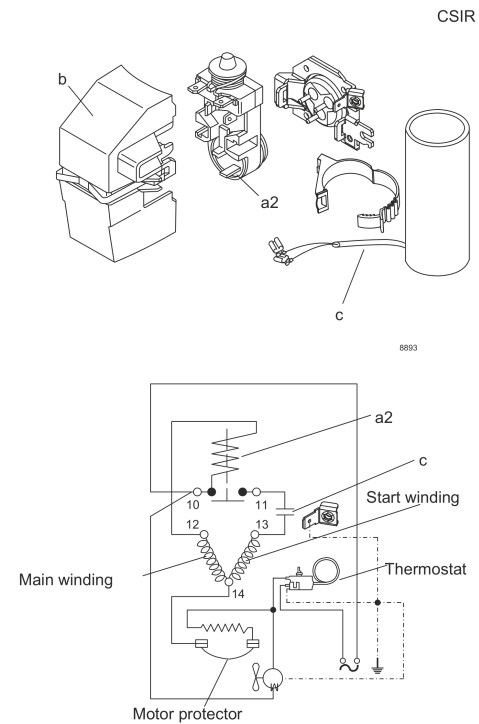
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

**System Cooling**

fan 3m/s

Electrical Accessories / Wiring Diagram



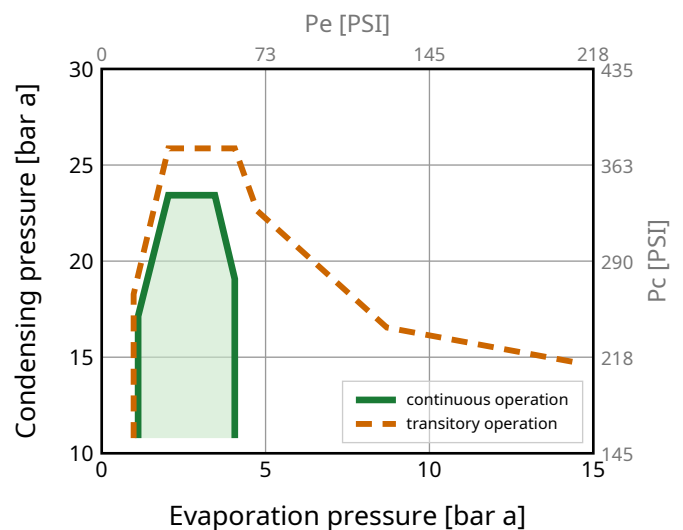
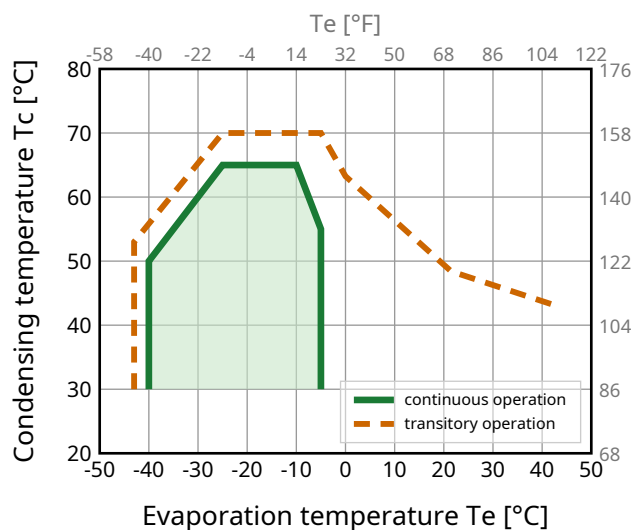
**Components (relay + cover: pre-assembled)**

**a2** assy. relay + ext. protector (T1120) 117U7413

**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] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90    | 767              | 2617    | 660      | 1.48  | 5.05     | 519 | 3.05 | 7.79   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 550              | 1877    | 473      | 1.13  | 3.87     | 486 | 2.95 | 6.90   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 415              | 1417    | 357      | 1.13  | 3.87     | 366 | 2.58 | 4.77   | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 650              | 2216    | 559      | 1.23  | 4.20     | 527 | 3.06 | 9.02   | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 911              | 3107    | 783      | 1.74  | 5.94     | 523 | 3.08 | 9.25   | AHAM LBP    |
| -25<br>-13   | 45<br>113     | 32<br>89.6   | 45<br>113     | 708              | 2417    | 609      | 1.40  | 4.79     | 505 | 3.00 | 8.03   | 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] |
| -40  | -40  | 198              | 677     | 171      | 0.80  | 2.74     | 247 | 2.18 | 2.23   |
| -35  | -31  | 351              | 1197    | 302      | 1.02  | 3.47     | 345 | 2.48 | 3.95   |
| -30  | -22  | 520              | 1773    | 447      | 1.21  | 4.12     | 430 | 2.75 | 5.87   |
| -25  | -13  | 708              | 2417    | 609      | 1.40  | 4.79     | 505 | 3.00 | 8.03   |
| -20  | -4   | 920              | 3138    | 791      | 1.61  | 5.49     | 571 | 3.23 | 10.46  |
| -15  | 5    | 1157             | 3948    | 995      | 1.83  | 6.26     | 630 | 3.45 | 13.22  |
| -10  | 14   | 1424             | 4858    | 1224     | 2.08  | 7.09     | 685 | 3.66 | 16.35  |
| -5   | 23   | 1722             | 5877    | 1481     | 2.34  | 7.98     | 736 | 3.88 | 19.89  |

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

|     |     |      |      |      |      |      |     |      |       |
|-----|-----|------|------|------|------|------|-----|------|-------|
| -40 | -40 | 39   | 132  | 33   | 0.28 | 0.97 | 136 | 1.84 | 0.48  |
| -35 | -31 | 197  | 672  | 169  | 0.74 | 2.51 | 267 | 2.25 | 2.45  |
| -30 | -22 | 366  | 1250 | 315  | 0.96 | 3.26 | 383 | 2.62 | 4.58  |
| -25 | -13 | 550  | 1877 | 473  | 1.13 | 3.87 | 486 | 2.95 | 6.90  |
| -20 | -4  | 752  | 2564 | 646  | 1.31 | 4.46 | 576 | 3.26 | 9.46  |
| -15 | 5   | 974  | 3323 | 837  | 1.49 | 5.07 | 655 | 3.55 | 12.31 |
| -10 | 14  | 1220 | 4162 | 1049 | 1.68 | 5.73 | 727 | 3.81 | 15.51 |
| -5  | 23  | 1493 | 5093 | 1284 | 1.89 | 6.44 | 792 | 4.07 | 19.11 |