

Model

SC10CNX

Sales code:

104H8065

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R290                  |
| Refr. charge - tech. limit | 150g / 5.29oz         |
| Weight                     | 13.10 kg / 28.88lbs   |
| Displacement               | 10.29 cm3 / 0.63cu.in |
| Compressors on pallet      | 80                    |



General – Configurations With SC10CNX

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSCR            |
| Power supply (nominal)  | 220-240 V/50 Hz |
| Number of phases        | 1               |
| Voltage range           | 198-254 V       |
| Approvals               | VDE             |
| Starting torque         | HST             |
| Refrigerant             | R290            |
| Application             | LBP+MBP         |
| Hot gas defrost         | OK              |
| 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              | <b>POE</b>                               | Winding resistance main | <b>7.200 Ohm</b>     |
| Oil viscosity         | <b>32cSt</b>                             | Winding resistance aux  | <b>27.20 Ohm</b>     |
| Oil quantity          | <b>499 / 16.87fl.oz</b>                  | Max. winding temp.      | <b>125 °C</b>        |
| Free gas volume comp. | <b>1,410 cm<sup>3</sup> / 47.68fl.oz</b> | Max. discharge temp.    | <b>120°C / 248°F</b> |
| Motor protection      | <b>internal</b>                          |                         |                      |

### Compressor Dimensions

#### Housing

|                   |                        |
|-------------------|------------------------|
| A Height          | <b>209mm / 8.23in</b>  |
| B Height          | <b>203mm / 7.99in</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 8.11–8.29 / 0.32–0.33in    | øi 6.11–6.29 / 0.24–0.25in    | øi 6.11–6.29 / 0.24–0.25in      |
| Material              | CU                            | CU                            | CU                              |
| Horizontal angle ±2°  | 37°                           | 37°                           | 143°                            |
| Vertical angle ±2°    | 30°                           | 0°                            | 150°                            |
| Position l/h/w [mm]   | 107/183/55 / 4.21/7.20/2.17in | 115/100/63 / 4.53/3.94/2.48in | -107/183/55 / -4.21/7.20/2.17in |
| Straight tube l. [mm] | 12 / 0.47in                   | 12 / 0.47in                   | 12 / 0.47in                     |

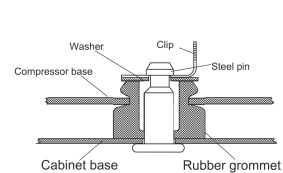
### Mounting Accessories



#### 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>CSCR</b>                 |
| Power supply (nominal)             | <b>220-240 V/50 Hz 1~</b>   |
| Refrigerant                        | <b>R290</b>                 |
| Application                        | <b>LBP+MBP</b>              |
| Voltage range                      | <b>198-254 V</b>            |
| Starting torque                    | <b>HST</b>                  |
| Approvals                          | <b>VDE</b>                  |
| Starting device type               | <b>relay</b>                |
| Run capacitor                      | <b>5 <math>\mu</math>F</b>  |
| Start capacitor                    | <b>40 <math>\mu</math>F</b> |
| LRA (locked rotor amps / 4s/ U(N)) | <b>23.4 A</b>               |
| RLA (rated load amps / 1s/ U(N))   | <b>4.3 A</b>                |
| Cut in current (U(N))              | <b>23.4 A</b>               |

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

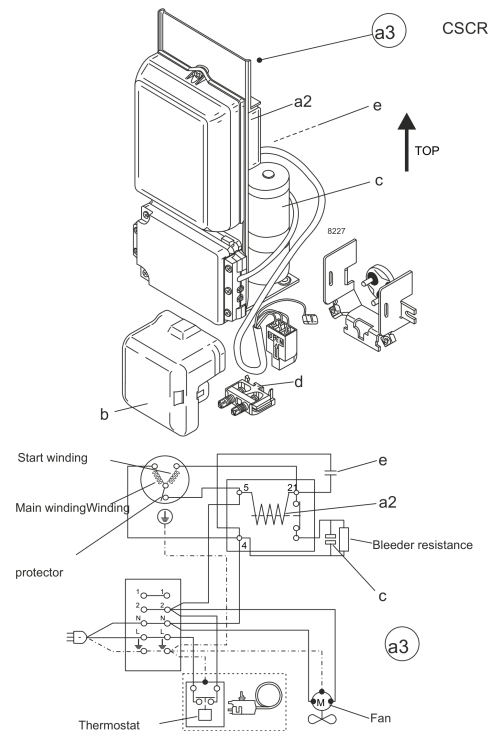
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

**System Cooling**

fan 3m/s

Electrical Accessories / Wiring Diagram



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**Components**

**a3** SC starter kit 117-7025

**b** plastic cover 103N2009

**d** cord relief 103N1004

**Alternative components**

**a2** potential relay (RVA 6M3R 339) 117-7425

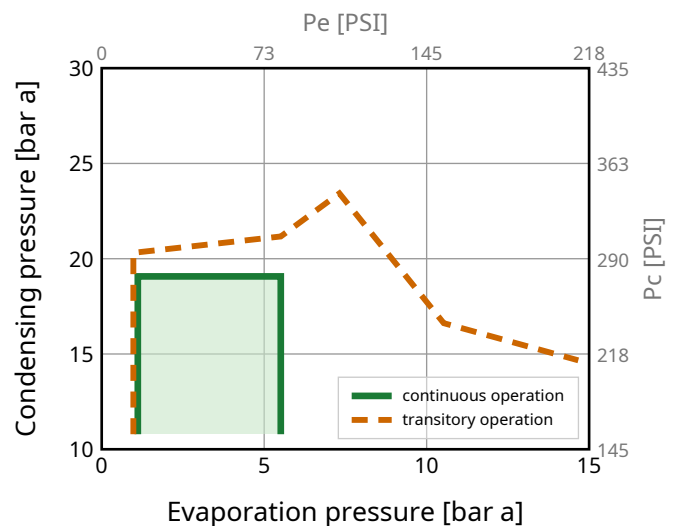
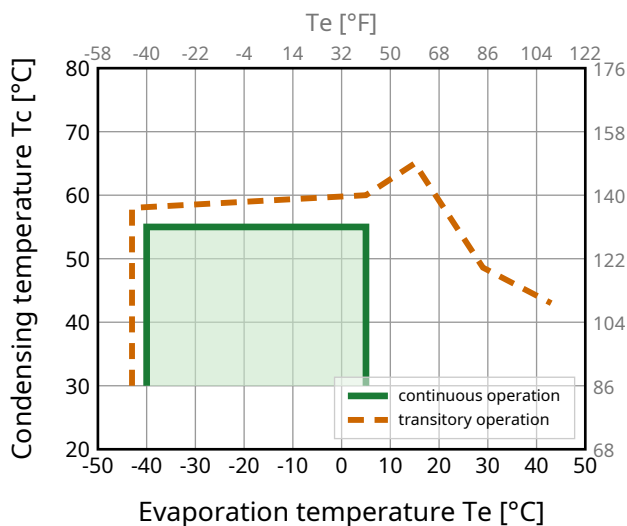
**e** run capacitor (5 $\mu$ F, 6.3mm) 117-7111

**c** start capacitor (40 $\mu$ F, 6.3mm) 117U5372

**b** plastic cover 103N2009

**d** cord relief 103N1004

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, CSCR, 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   | 359              | 1226    | 309      | 1.27  | 4.33     | 283 | 1.50 | 3.65   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 263              | 898     | 226      | 0.98  | 3.33     | 270 | 1.46 | 3.30   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 197              | 673     | 170      | 0.93  | 3.16     | 213 | 1.23 | 2.26   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 712              | 2428    | 612      | 1.79  | 6.10     | 398 | 1.96 | 8.15   | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 555              | 1894    | 477      | 1.47  | 5.02     | 377 | 1.87 | 7.06   | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 635              | 2168    | 546      | 1.75  | 5.99     | 362 | 1.78 | 7.82   | EN12900 MBP |

Performance Tables

R290, 220 V/50 Hz, CSCR, 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  | 126              | 430     | 108      | 0.72  | 2.47     | 174 | 1.12 | 1.42   |
| -30  | -22  | 245              | 837     | 211      | 1.01  | 3.46     | 242 | 1.33 | 2.77   |
| -20  | -4   | 420              | 1431    | 361      | 1.37  | 4.68     | 306 | 1.55 | 4.77   |
| -10  | 14   | 660              | 2254    | 568      | 1.82  | 6.23     | 362 | 1.78 | 7.58   |
| 0    | 32   | 979              | 3341    | 842      | 2.41  | 8.23     | 406 | 2.00 | 11.39  |
| 5    | 41   | 1172             | 3997    | 1007     | 2.77  | 9.46     | 422 | 2.12 | 13.73  |

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

|     |     |      |      |     |      |      |     |      |       |
|-----|-----|------|------|-----|------|------|-----|------|-------|
| -40 | -40 | 99   | 337  | 85  | 0.63 | 2.14 | 158 | 1.05 | 1.23  |
| -30 | -22 | 196  | 669  | 169 | 0.84 | 2.88 | 232 | 1.32 | 2.45  |
| -20 | -4  | 344  | 1175 | 296 | 1.12 | 3.83 | 307 | 1.59 | 4.34  |
| -10 | 14  | 555  | 1894 | 477 | 1.47 | 5.02 | 377 | 1.87 | 7.06  |
| 0   | 32  | 839  | 2864 | 722 | 1.91 | 6.53 | 439 | 2.16 | 10.82 |
| 5   | 41  | 1013 | 3455 | 871 | 2.18 | 7.43 | 465 | 2.30 | 13.17 |