

Model

SC18CLX.2

Sales code:

104L2172

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R404A / R507          |
| Refr. charge - tech. limit | 1300g / 45.86oz       |
| Weight                     | 13.80 kg / 30.42lbs   |
| Displacement               | 17.69 cm3 / 1.08cu.in |
| Compressors on pallet      | 80                    |



General – Configurations With SC18CLX.2

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSCR            |
| Power supply (nominal)  | 208-230 V/60 Hz |
| Number of phases        | 1               |
| Voltage range           | 187-254 V       |
| Approvals               | VDE, UL         |
| Starting torque         | HST             |
| Refrigerant             | R404A           |
| Application             | LBP             |
| 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

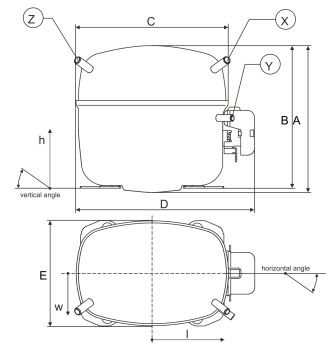
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | POE                                | Winding resistance main | 2.69 Ohm      |
| Oil viscosity         | 32cSt                              | Winding resistance aux  | 9.49 Ohm      |
| Oil quantity          | 550 / 18.60fl.oz                   | Max. winding temp.      | 125 °C        |
| Free gas volume comp. | 1,460 cm <sup>3</sup> / 49.37fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | internal                           |                         |               |

### Compressor Dimensions

#### Housing

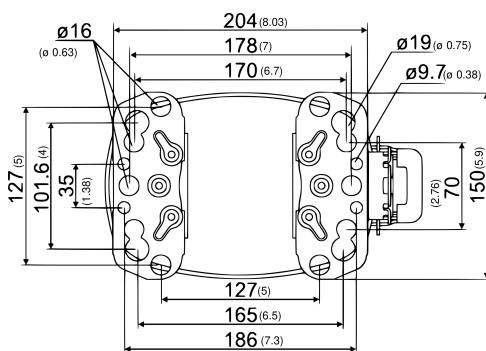
|                   |                 |
|-------------------|-----------------|
| A Height          | 219mm / 8.62in  |
| B Height          | 213mm / 8.39in  |
| C Length shell    | 239mm / 9.41in  |
| D Length w. cover | 255mm / 10.04in |
| E Width           | 151mm / 5.94in  |

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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                     |

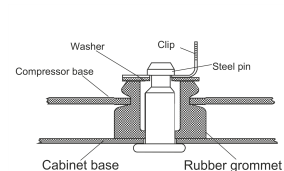
### Mounting Accessories



#### 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>CSCR</b>               |
| Power supply (nominal)             | <b>208-230 V/60 Hz 1~</b> |
| Refrigerant                        | <b>R404A</b>              |
| Application                        | <b>LBP</b>                |
| Voltage range                      | <b>187-254 V</b>          |
| Starting torque                    | <b>HST</b>                |
| Approvals                          | <b>VDE, UL</b>            |
| Starting device type               | <b>relay</b>              |
| Run capacitor                      | <b>10 µF</b>              |
| Start capacitor                    | <b>80 µF</b>              |
| LRA (locked rotor amps / 4s/ U(N)) | <b>27.32 A</b>            |
| RLA (rated load amps / 1s/ U(N))   | <b>4.6 A</b>              |
| Cut in current (U(N))              | <b>27.32 A</b>            |

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

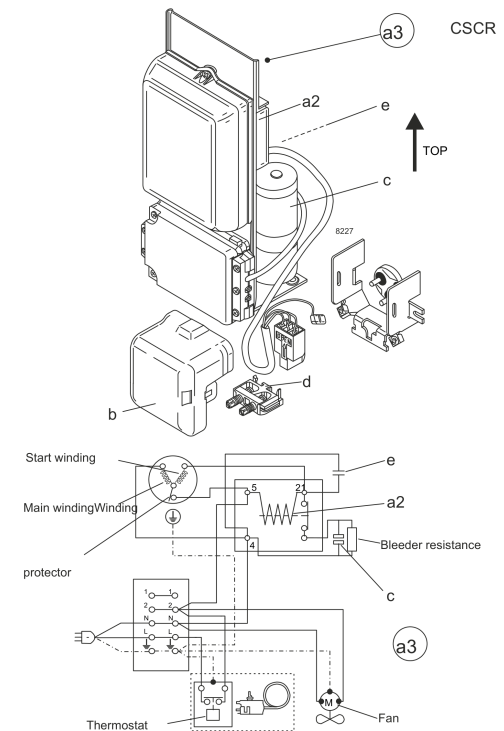
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

**System Cooling**

fan 3m/s

Electrical Accessories / Wiring Diagram



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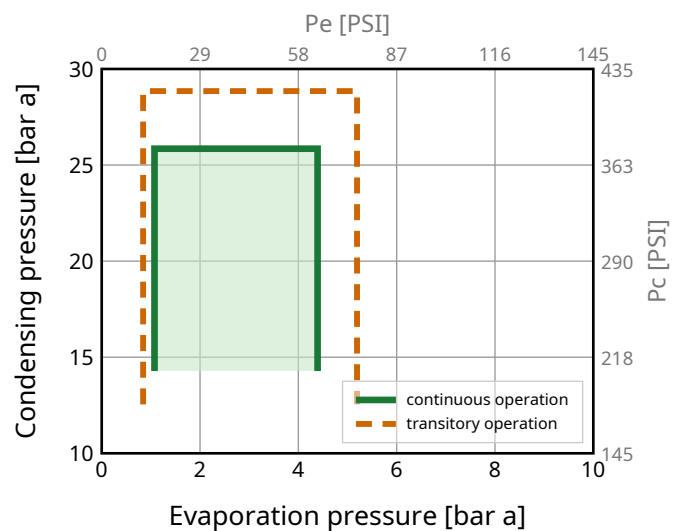
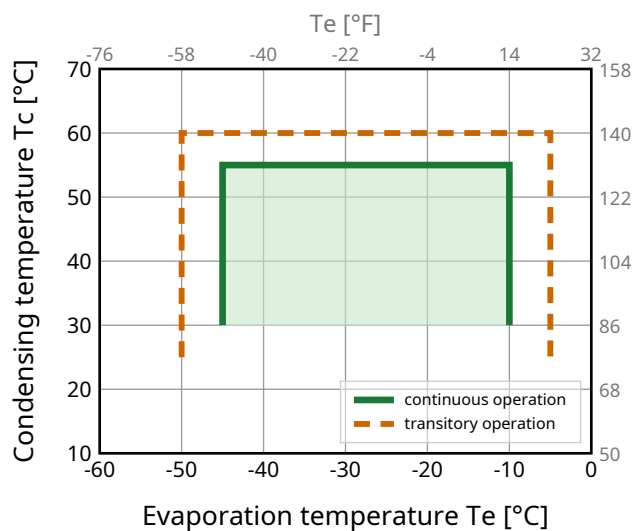
**Components**

**a3** SC starter kit 117-7066

**b** plastic cover 103N2008

**d** cord relief 103N1004

Operation Pressure Range



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Standard Conditions

R404A, 230 V/60 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    | 1114             | 3800    | 958      | 1.39  | 4.76     | 799 | 3.82 | 25.89  | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 764              | 2608    | 657      | 1.00  | 3.41     | 766 | 3.68 | 23.84  | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 590              | 2012    | 507      | 1.03  | 3.51     | 574 | 2.94 | 15.98  | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 811              | 2768    | 698      | 1.03  | 3.51     | 789 | 3.78 | 28.62  | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 1200             | 4094    | 1032     | 1.56  | 5.32     | 769 | 3.71 | 27.90  | AHAM LBP    |
| -35<br>-31   | 45<br>113     | 32<br>89.6   | 45<br>113     | 542              | 1850    | 466      | 0.96  | 3.29     | 563 | 2.92 | 14.46  | opt LBP     |

Performance Tables

R404A, 230 V/60 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] |
| -45  | -49  | 113              | 385     | 97       | 0.36  | 1.23     | 312 | 2.20 | 2.98   |
| -40  | -40  | 338              | 1155    | 291      | 0.76  | 2.58     | 447 | 2.56 | 8.99   |
| -35  | -31  | 542              | 1850    | 466      | 0.96  | 3.29     | 563 | 2.92 | 14.46  |
| -30  | -22  | 737              | 2516    | 634      | 1.11  | 3.79     | 663 | 3.28 | 19.75  |
| -25  | -13  | 938              | 3200    | 807      | 1.25  | 4.25     | 752 | 3.63 | 25.24  |
| -20  | -4   | 1157             | 3949    | 995      | 1.39  | 4.74     | 834 | 3.98 | 31.34  |
| -15  | 5    | 1410             | 4810    | 1212     | 1.55  | 5.28     | 912 | 4.33 | 38.44  |
| -10  | 14   | 1708             | 5828    | 1469     | 1.73  | 5.89     | 990 | 4.67 | 46.96  |

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

|     |     |      |      |      |      |      |      |      |       |
|-----|-----|------|------|------|------|------|------|------|-------|
| -45 | -49 | -    | -    | -    | -    | -    | -    | 2.02 | -     |
| -40 | -40 | 159  | 541  | 136  | 0.40 | 1.37 | 394  | 2.44 | 4.88  |
| -35 | -31 | 383  | 1305 | 329  | 0.71 | 2.44 | 535  | 2.86 | 11.80 |
| -30 | -22 | 580  | 1979 | 499  | 0.88 | 3.01 | 658  | 3.27 | 17.98 |
| -25 | -13 | 764  | 2608 | 657  | 1.00 | 3.41 | 766  | 3.68 | 23.84 |
| -20 | -4  | 950  | 3241 | 817  | 1.10 | 3.76 | 863  | 4.09 | 29.83 |
| -15 | 5   | 1150 | 3923 | 989  | 1.21 | 4.11 | 953  | 4.50 | 36.40 |
| -10 | 14  | 1378 | 4702 | 1185 | 1.32 | 4.52 | 1041 | 4.90 | 44.05 |