

Model  
SC15G

Sales code:  
104G7555

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R134a                 |
| Refr. charge - tech. limit | 1300g / 45.86oz       |
| Weight                     | 13.20 kg / 29.10lbs   |
| Displacement               | 15.28 cm3 / 0.93cu.in |
| Compressors on pallet      | 80                    |



General – Configurations With SC15G

|                         |             |
|-------------------------|-------------|
| -                       | Conf. 1     |
| Motor configuration     | CSIR        |
| Power supply (nominal)  | 115 V/60 Hz |
| Number of phases        | 1           |
| Voltage range           | 103-127 V   |
| Approvals               | UL          |
| Starting torque         | HST         |
| Refrigerant             | R134a       |
| Application             | LBP+MBP+HBP |
| Hot gas defrost         | OK          |
| Long interval pull down | OK          |

Application Notes

- Electrical equipment is 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

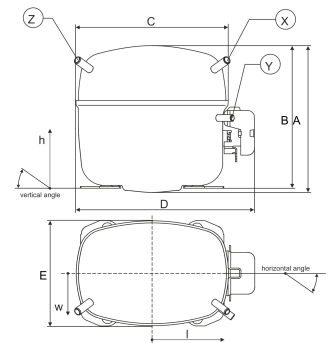
|                       |                                          |                         |                      |
|-----------------------|------------------------------------------|-------------------------|----------------------|
| Oil type              | <b>POE</b>                               | Winding resistance main | <b>1 Ohm</b>         |
| Oil viscosity         | <b>22cSt</b>                             | Winding resistance aux  | <b>4.2 Ohm</b>       |
| Oil quantity          | <b>554 / 18.73fl.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>internal</b>                          |                         |                      |

### Compressor Dimensions

#### Housing

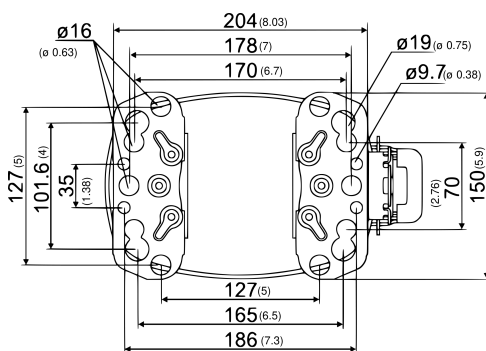
|                   |                        |
|-------------------|------------------------|
| A Height          | <b>209mm / 8.23in</b>  |
| B Height          | <b>203mm / 7.99in</b>  |
| C Length shell    | <b>218mm / 8.58in</b>  |
| D Length w. cover | <b>255mm / 10.04in</b> |
| E Width           | <b>151mm / 5.94in</b>  |

[Find 3D Model here](#)

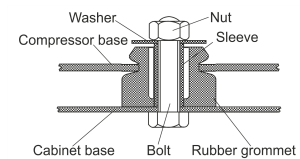


| Connectors            | Suction X                     | Discharge Y                   | Process Z                       |
|-----------------------|-------------------------------|-------------------------------|---------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in    | 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°  | 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                     |

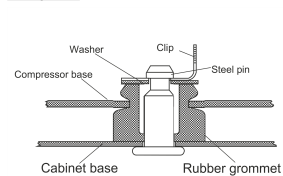
### Mounting Accessories



#### 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

|                                    |                       |
|------------------------------------|-----------------------|
| Motor configuration                | <b>CSIR</b>           |
| Power supply (nominal)             | <b>115 V/60 Hz 1~</b> |
| Refrigerant                        | <b>R134a</b>          |
| Application                        | <b>LBP+MBP+HBP</b>    |
| Voltage range                      | <b>103-127 V</b>      |
| Starting torque                    | <b>HST</b>            |
| Approvals                          | <b>UL</b>             |
| Starting device type               | <b>relay</b>          |
| Run capacitor                      | <b>-/-</b>            |
| Start capacitor                    | <b>240 µF</b>         |
| LRA (locked rotor amps / 4s/ U(N)) | <b>39.7 A</b>         |
| RLA (rated load amps / 1s/ U(N))   | <b>7.6 A</b>          |
| Cut in current (U(N))              | <b>39.7 A</b>         |

### Ambient/ machine room temperatures minimum /maximum

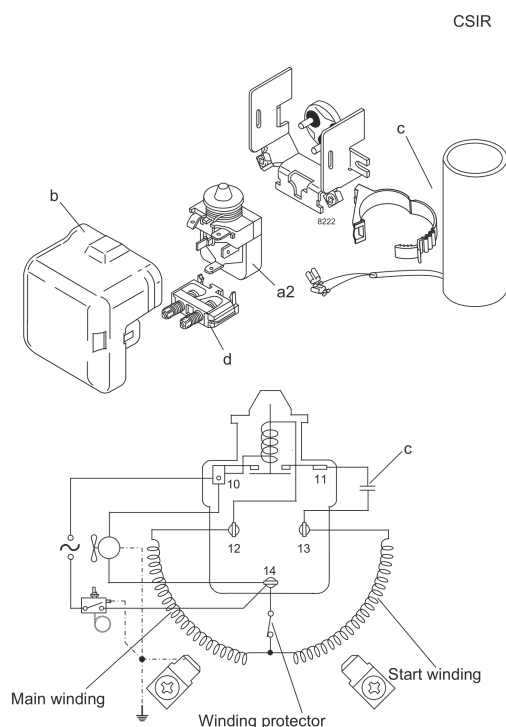
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (already pre-assembled)

**a2** relay 117U6020

**c** start capacitor (240µF) 117U5023

**d** cord relief 103N1004

**b** plastic cover 103N2008

### Alternative components

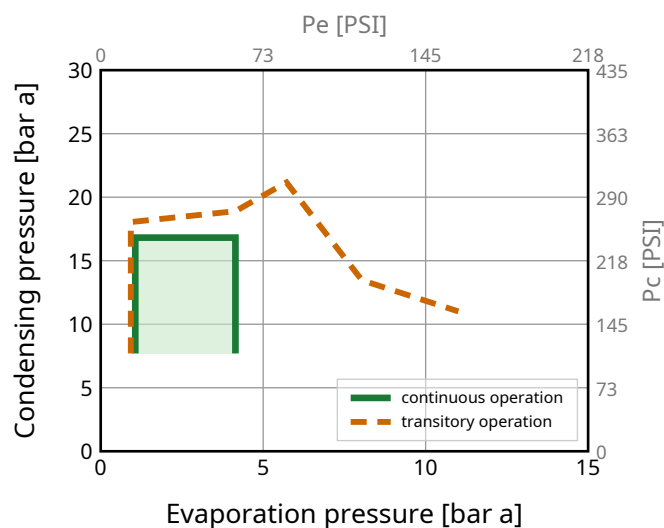
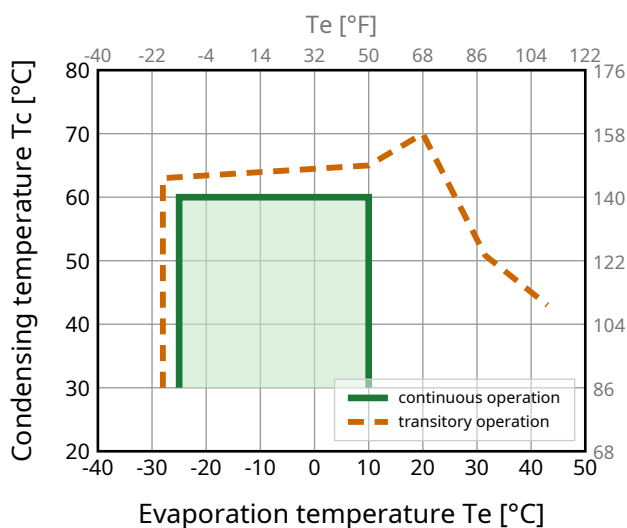
**a2** relay 117U6020

**c** start capacitor (240µF, 15kOhm) 117U5034

**d** cord relief 103N1004

**b** plastic cover 103N2008

### Operation Pressure Range



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Standard Conditions

R134a, 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   | 363              | 1238    | 312      | 1.10  | 3.75     | 330 | 5.03 | 7.04   | ASHRAE LBP  |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 897              | 3061    | 771      | 1.59  | 5.41     | 565 | 6.36 | 19.53  | ASHRAE MBP  |
| 7.2<br>45    | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 1622             | 5536    | 1395     | 2.12  | 7.23     | 766 | 7.85 | 35.91  | ASHRAE HBP  |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 146              | 496     | 125      | 0.70  | 2.40     | 207 | 4.55 | 3.18   | EN12900 LBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 781              | 2664    | 672      | 1.57  | 5.37     | 496 | 5.91 | 18.21  | EN12900 MBP |
| 5<br>41      | 50<br>122     | 20<br>68     | 50<br>122    | 1377             | 4699    | 1184     | 1.94  | 6.61     | 710 | 7.41 | 34.54  | EN12900 HBP |

Performance Tables

R134a, 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] |
| -25  | -13  | 324              | 1104    | 278      | 1.03  | 3.52     | 314 | 4.93 | 7.00   |
| -20  | -4   | 459              | 1567    | 395      | 1.23  | 4.19     | 374 | 5.22 | 9.96   |
| -15  | 5    | 621              | 2119    | 534      | 1.43  | 4.87     | 435 | 5.54 | 13.51  |
| -10  | 14   | 809              | 2760    | 696      | 1.63  | 5.56     | 496 | 5.91 | 17.66  |
| -5   | 23   | 1023             | 3489    | 880      | 1.83  | 6.25     | 558 | 6.31 | 22.44  |
| 0    | 32   | 1263             | 4308    | 1086     | 2.04  | 6.95     | 620 | 6.74 | 27.86  |
| 5    | 41   | 1529             | 5217    | 1315     | 2.24  | 7.64     | 683 | 7.20 | 33.96  |
| 10   | 50   | 1821             | 6214    | 1566     | 2.44  | 8.33     | 746 | 7.69 | 40.76  |

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

|     |     |      |      |      |      |      |     |      |       |
|-----|-----|------|------|------|------|------|-----|------|-------|
| -25 | -13 | 256  | 874  | 220  | 0.84 | 2.86 | 305 | 4.92 | 6.11  |
| -20 | -4  | 373  | 1273 | 321  | 0.99 | 3.38 | 376 | 5.25 | 8.92  |
| -15 | 5   | 516  | 1761 | 444  | 1.15 | 3.94 | 447 | 5.63 | 12.39 |
| -10 | 14  | 685  | 2338 | 589  | 1.32 | 4.50 | 519 | 6.06 | 16.52 |
| -5  | 23  | 880  | 3004 | 757  | 1.49 | 5.08 | 591 | 6.54 | 21.34 |
| 0   | 32  | 1102 | 3760 | 948  | 1.66 | 5.66 | 664 | 7.06 | 26.87 |
| 5   | 41  | 1349 | 4604 | 1160 | 1.83 | 6.25 | 737 | 7.62 | 33.14 |
| 10  | 50  | 1623 | 5538 | 1396 | 2.00 | 6.84 | 810 | 8.21 | 40.21 |