

Model

GS21CLX

Sales code:

107B0506

Compressor Data

|                            |                       |
|----------------------------|-----------------------|
| Refrigerant(s)             | R404A                 |
| Refr. charge - tech. limit | 2000g / 70.55oz       |
| Weight                     | 20.00 kg / 44.09lbs   |
| Displacement               | 21.20 cm3 / 1.29cu.in |
| Compressors on pallet      | 48                    |



General – Configurations With GS21CLX

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSCR            |
| Power supply (nominal)  | 208-230 V/60 Hz |
| Number of phases        | 1               |
| Voltage range           | 187-254 V       |
| Approvals               | UL              |
| Starting torque         | HST             |
| Refrigerant             | R404A           |
| Application             | LBP             |
| Hot gas defrost         | OK              |
| Long interval pull down | OK              |

Application Notes

- Cover, clamp, gasket: pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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### Compressor Design

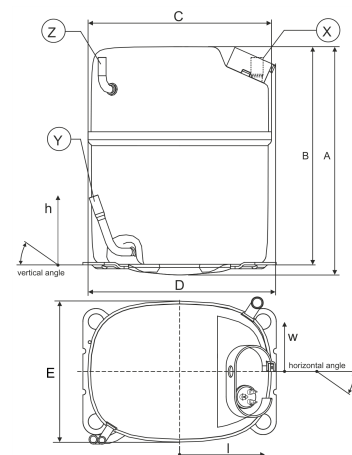
|                       |                                     |                         |               |
|-----------------------|-------------------------------------|-------------------------|---------------|
| Oil type              | POE                                 | Winding resistance main | 2.600 Ohm     |
| Oil viscosity         | 32,5cSt                             | Winding resistance aux  | 5.00 Ohm      |
| Oil quantity          | 902 / 30.50fl.oz                    | Max. discharge temp.    | 130°C / 266°F |
| Free gas volume comp. | 3,220 cm <sup>3</sup> / 108.88fl.oz |                         |               |

### Compressor Dimensions

#### Housing

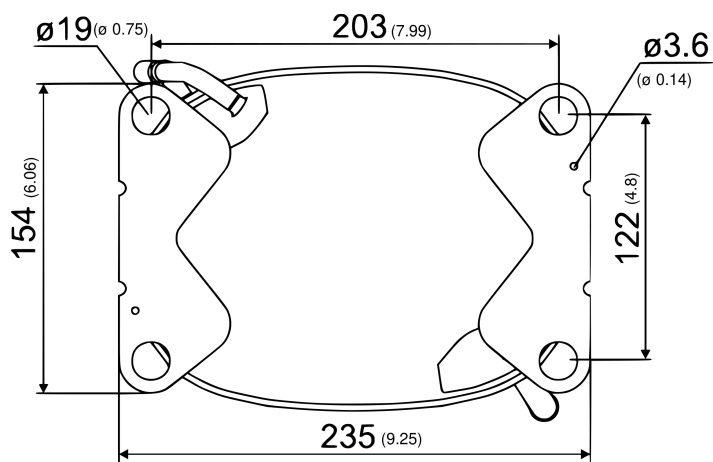
|                   |                 |
|-------------------|-----------------|
| A Height          | 259mm / 10.20in |
| B Height          | 247mm / 9.72in  |
| C Length shell    | 224mm / 8.82in  |
| D Length w. cover | 232mm / 9.13in  |
| E Width           | 173mm / 6.81in  |

[Find 3D Model here](#)

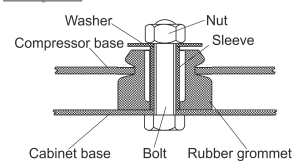


| Connectors            | Suction X                          | Discharge Y                      | Process Z                      |
|-----------------------|------------------------------------|----------------------------------|--------------------------------|
| Diameter [mm]         | øi 12.75–13.05 / 0.50–0.51in       | øi 8.15–8.25 / 0.32–0.32in       | øi 6.4–6.6 / 0.25–0.26in       |
| Material              | CU                                 | CU                               | CU                             |
| Horizontal angle ±2°  | 0°                                 | 0°                               | 0°                             |
| Vertical angle ±2°    | 90°                                | 71°                              | 90°                            |
| Position l/h/w [mm]   | -94.5/234/-84 / -3.72/9.21/-3.31in | -105/84/-84 / -4.13/3.31/-3.31in | 94.5/234/84 / 3.72/9.21/3.31in |
| Straight tube l. [mm] | 18 / 0.71in                        | 22.5 / 0.89in                    | 15 / 0.59in                    |

### Mounting Accessories



#### Bolt joint



Dimensions in mm [in]

|                         | one comp. | multi pack |
|-------------------------|-----------|------------|
| Bolt joint   M8   ø19mm | 107B9150  | -          |

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Configuration 1

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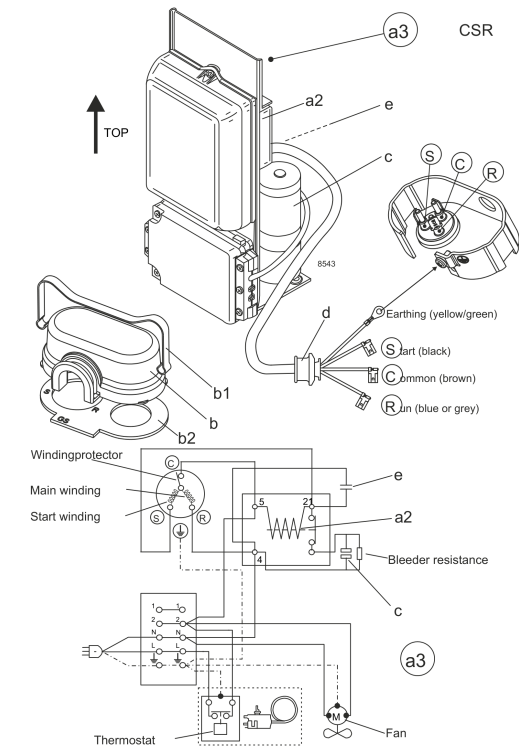
### Configuration

|                                  |                              |
|----------------------------------|------------------------------|
| 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>UL</b>                    |
| Starting device type             | <b>relay</b>                 |
| Run capacitor                    | <b>20 <math>\mu</math>F</b>  |
| Start capacitor                  | <b>100 <math>\mu</math>F</b> |
| RLA (rated load amps / 1s/ U(N)) | <b>-/-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 (cover, clamp, gasket: pre assembled)**

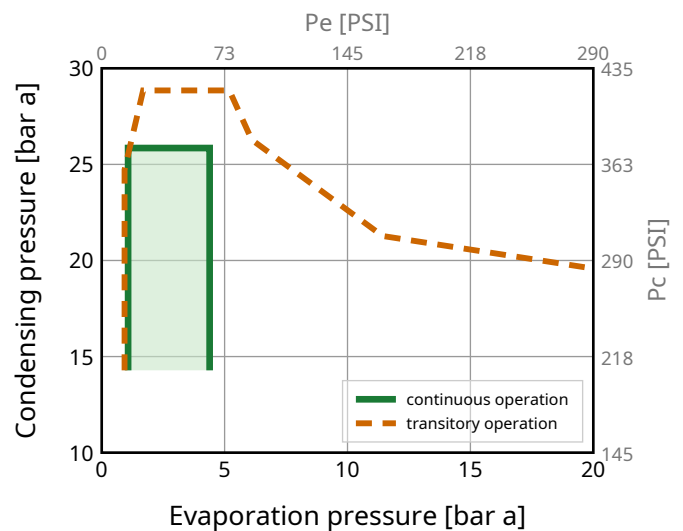
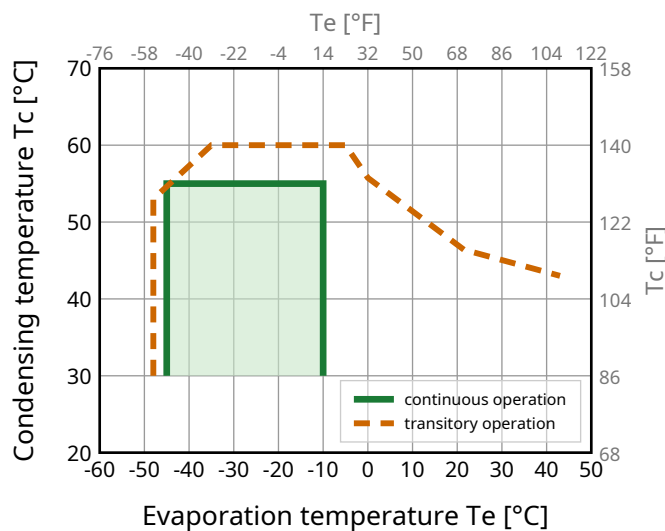
**a3** GS starter kit (600mm) 117-7073

107B9106

**b2** gasket 107B9100

**b1** clamp 107B9104

### Operation Pressure Range



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Configuration 1

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Standard Conditions

R404A, 220 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    | 1258             | 4291    | 1082     | 1.35  | 4.60     | 932 | 3.96 | 29.23  | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 844              | 2880    | 726      | 0.95  | 3.24     | 887 | 3.82 | 26.32  | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 669              | 2282    | 575      | 1.05  | 3.59     | 636 | 3.15 | 18.12  | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 949              | 3238    | 816      | 1.03  | 3.51     | 921 | 3.94 | 33.48  | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 1463             | 4992    | 1258     | 1.65  | 5.64     | 886 | 3.84 | 34.01  | AHAM LBP    |
| -35<br>-31   | 45<br>113     | 32<br>89.6   | 45<br>113     | 608              | 2076    | 523      | 0.95  | 3.23     | 642 | 3.17 | 16.22  | opt LBP     |

Performance Tables

R404A, 220 V/60 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 20/68 | 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  | 244              | 832     | 210      | 0.59  | 2.01     | 414  | 2.74 | 7.01   |
| -40  | -40  | 396              | 1350    | 340      | 0.75  | 2.55     | 530  | 2.93 | 11.41  |
| -35  | -31  | 577              | 1969    | 496      | 0.90  | 3.07     | 642  | 3.17 | 16.71  |
| -30  | -22  | 792              | 2704    | 682      | 1.05  | 3.59     | 753  | 3.45 | 23.07  |
| -25  | -13  | 1046             | 3570    | 900      | 1.21  | 4.11     | 867  | 3.78 | 30.64  |
| -20  | -4   | 1343             | 4583    | 1155     | 1.36  | 4.64     | 988  | 4.15 | 39.63  |
| -15  | 5    | 1688             | 5759    | 1452     | 1.51  | 5.15     | 1118 | 4.57 | 50.23  |
| -10  | 14   | 2084             | 7112    | 1793     | 1.65  | 5.64     | 1261 | 5.03 | 62.67  |

pc= 55/131 | RGT= 20/68 | Tliq= 55/131 | °C/°F

|     |     |      |      |      |      |      |      |      |       |
|-----|-----|------|------|------|------|------|------|------|-------|
| -45 | -49 | 123  | 419  | 106  | 0.34 | 1.18 | 356  | 2.58 | 4.13  |
| -40 | -40 | 252  | 858  | 216  | 0.51 | 1.74 | 495  | 2.83 | 8.50  |
| -35 | -31 | 402  | 1373 | 346  | 0.64 | 2.19 | 627  | 3.11 | 13.67 |
| -30 | -22 | 580  | 1978 | 499  | 0.77 | 2.61 | 757  | 3.44 | 19.80 |
| -25 | -13 | 788  | 2688 | 678  | 0.89 | 3.03 | 887  | 3.82 | 27.11 |
| -20 | -4  | 1032 | 3520 | 887  | 1.01 | 3.45 | 1022 | 4.25 | 35.81 |
| -15 | 5   | 1315 | 4488 | 1131 | 1.13 | 3.86 | 1164 | 4.71 | 46.12 |
| -10 | 14  | 1644 | 5608 | 1413 | 1.25 | 4.26 | 1316 | 5.23 | 58.34 |