

Model

| | | | | |
|-------------|--------------|------------------|-------------|-----------------|
| Designation | SC15G | 208-230V/60Hz 1~ | Sales code: | 104G8526 |
|-------------|--------------|------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R134a |
| Oil viscosity | 22cST | Displacement | 15,28cm ³ / 0,93cu.in |
| Oil quantity | 500cm ³ / 16,9fl.oz | Compressors on pallet | 80 |
| Refr. charge - tech. limit | 1300g / 45,9oz | | |
| Free gas volume comp. | 1410cm ³ / 47,7fl.oz | | |
| Weight | 13,2kg / 29,1lbs | | |
| Motor protection | 1# internal | | |
| Winding resistance main | 4,4Ω (at 25°C) | | |
| Winding resistance aux | 14Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 135°C / 275°F | | |



General - Configurations with SC15G

| | |
|------------------------|----------------|
| | Conf. 1 |
| Motorconfiguration | CSIR |
| Power supply (nominal) | 208-230V/60Hz |
| Number of phases | 1 |
| Voltage range | 187-254V |
| Approvals | VDE, UL, KC |
| Starting torque | HST |
| Note | - / - |

Applications with SC15G

| | |
|-------------------------|----------------|
| | Conf. 1 |
| Refrigerant | R134a |
| Application | MBP |
| System cooling | fan 3m/s |
| Hot gas defrost | OK |
| Long interval pull down | OK |

Electrical data - Configurations with SC15G

| | |
|------------------------------|----------------|
| | Conf. 1 |
| Starting device type | relay |
| Run capacitor | -/- |
| Start capacitor | 80μF |
| LRA (locked rotor amps / 4s) | |
| RLA (rated load amps / 1s) | -/-A |
| Cut in current | |

Model

Designation

SC15G

208-230V/60Hz 1~

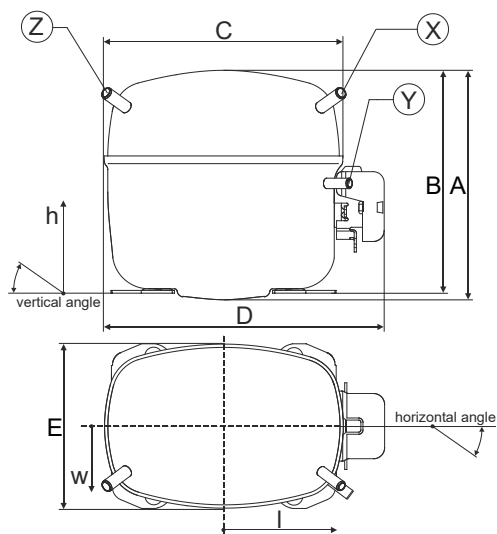
Sales code:

104G8526

Compressor dimensions

| Housing | A Height | 209mm / 8,23in |
|---------|-------------------|-----------------|
| | B Height | 203mm / 7,99in |
| | C Length shell | 218mm / 8,58in |
| | D Length w. cover | 255mm / 10,04in |
| | E Width | 151mm / 5,94in |

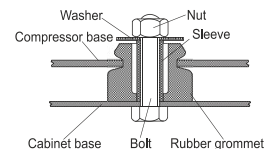
| Connectors | Suction X | Discharge Y | Process Z |
|----------------------------|----------------|----------------|--------------|
| Diameter [mm] | øi 10,11-10,29 | øi 6,41-6,59 | øi 6,41-6,59 |
| (i:inside, o:outside) [in] | øi 0,4-0,41 | øi 0,25-0,26 | øi 0,25-0,26 |
| Material | copper | copper | copper |
| Horizontal angle ±2° | 37° | 37° | 143° |
| Vertical angle ±2° | 30° | 0° | 150° |
| Position l/h/w [mm] | 107/183/55 | 115/100/63 | -107/183/55 |
| [in] | 4,2/7,2/2,2 | 4,5/3,9/2,5 | -4,2/7,2/2,2 |
| Straight tube l. [mm] | 12 | 12 | 12 |
| [in] | 0,5 | 0,5 | 0,5 |



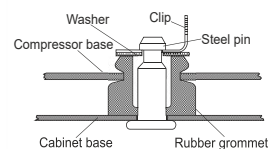
Compressor fixation



Bolt joint



Snap-on



Mounting accessories

| | 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 |

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

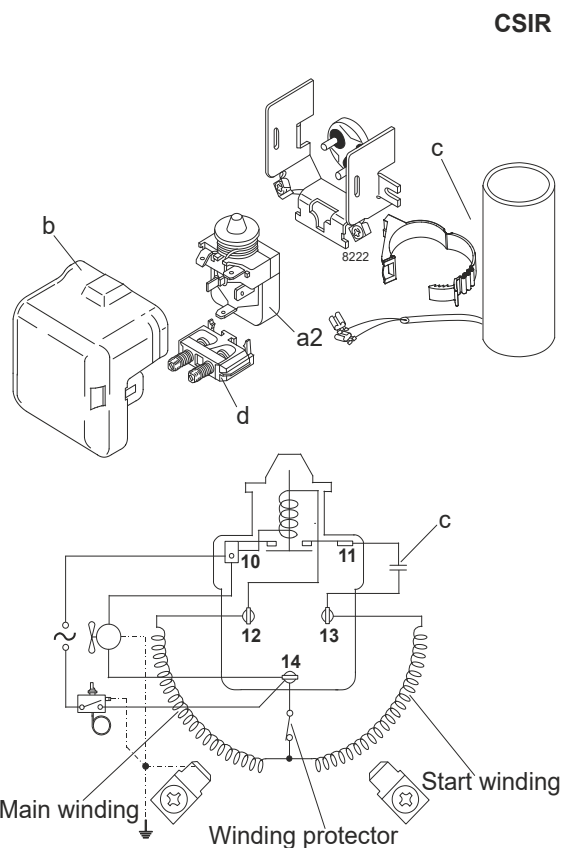
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Configuration

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| Motorconfiguration | CSIR |
| Power supply (nominal) | 208-230V/60Hz 1~ |
| Refrigerant | R134a |
| Application | MBP |
| Voltage range | 187-254V |
| Starting torque | HST |
| Approvals | VDE UL KC |

Electrical accessories / wiring diagram

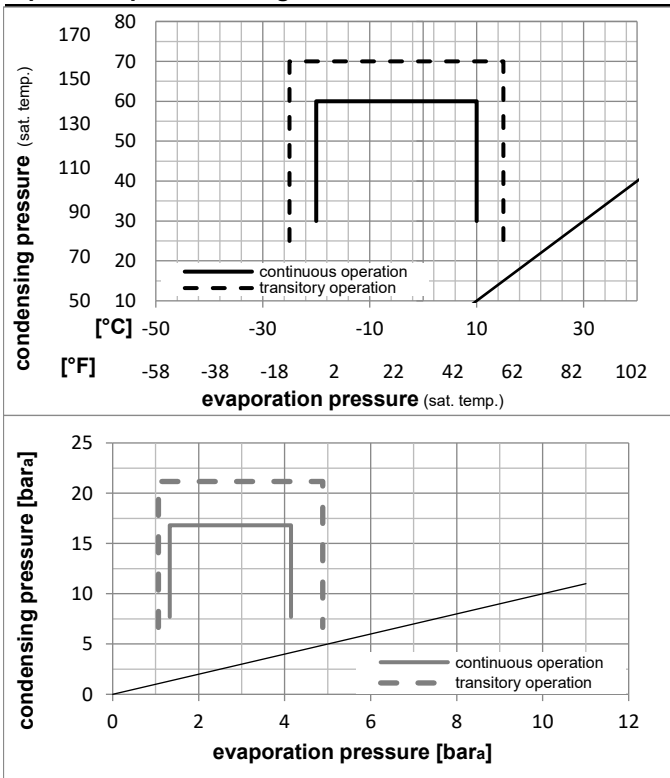


Ambient/ machine room temperatures minimum /maximum

| | |
|---------------------------------|------------------------|
| Ambient temperature range: | 10 - 43°C / 50 - 110°F |
| Machine room temperature range: | 10 - 48°C / 50 - 119°F |
| Compressor cooling: | fan 3m/s |

Operation Limits

Operation pressure range



Components

| | | |
|----|------------------------|----------|
| a2 | relay | 117U6011 |
| c | start capacitor (80μF) | 117U5017 |
| d | cord relief | 103N1004 |
| b | plastic cover | 103N2008 |

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Optimization + standard conditions

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, UL, KC

| | Evaporating pressure (saturation temperature) | | | | Cooling capacity | | | COP | EER | P1 | Power consumption | | | ASHRAE MBP | | | | |
|--|---|------|------|------|------------------|---------|----------|-------|----------|-----------|-------------------|----------------|--------|------------|-------|------|-------|-------------|
| | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | | | | I | Ref. mass flow | | | | | | |
| | [°C] | [°F] | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | | | | | |
| | -7 | 20 | 54 | 130 | 35 | 95 | 46 | 115 | 851,4 | 2908 | 732,7 | 1,67 | 5,69 | 1,43 | 511,0 | 3,05 | 18,58 | ASHRAE MBP |
| | -10 | 14 | 55 | 131 | 32 | 90 | 55 | 131 | 641,5 | 2191 | 552,1 | 1,37 | 4,66 | 1,18 | 469,8 | 2,92 | 15,51 | cecomaf MBP |
| | -10 | 14 | 45 | 113 | 20 | 68 | 45 | 113 | 741,8 | 2533 | 638,4 | 1,69 | 5,79 | 1,46 | 437,7 | 2,79 | 17,36 | EN12900 MBP |
| | -7 | 20 | 49 | 120 | 18 | 65 | 49 | 120 | 818,4 | 2795 | 704,4 | 1,67 | 5,71 | 1,44 | 489,9 | 2,96 | 20,22 | ARI540 MBP |
| | -10 | 14 | 45 | 113 | 32 | 90 | 45 | 113 | 769,6 | 2628 | 662,3 | 1,76 | 6,00 | 1,51 | 437,7 | 2,79 | 16,84 | opt |
| | -25 | -13 | 45 | 113 | 32 | 90 | 45 | 113 | 272,1 | 929 | 234,2 | 1,11 | 3,79 | 0,96 | 244,9 | 2,29 | 5,89 | opt |

Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, UL, KC

| | pe | | Cooling capacity | | | COP | EER | P1 | I | m | |
|------------------|------|------|------------------|---------|----------|------|------|------|-------|------|-------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | | | | | | |
| [°C / °F] | -20 | -4 | 418,7 | 1430 | 360,3 | 1,34 | 4,57 | 1,15 | 312,8 | 2,45 | 9,10 |
| cond. pressure | -15 | 5 | 582,9 | 1991 | 501,7 | 1,55 | 5,28 | 1,33 | 377,1 | 2,61 | 12,71 |
| pc= 45/113 | -10 | 14 | 769,6 | 2628 | 662,3 | 1,76 | 6,00 | 1,51 | 437,7 | 2,79 | 16,84 |
| return gas temp. | -7 | 20 | 907,4 | 3099 | 780,9 | 1,91 | 6,52 | 1,64 | 475,6 | 2,90 | 19,92 |
| RGT= 32/90 | 0 | 32 | 1229,4 | 4198 | 1058,0 | 2,25 | 7,68 | 1,93 | 546,8 | 3,15 | 27,19 |
| liquid temp | 5 | 41 | 1512,0 | 5164 | 1301,2 | 2,54 | 8,68 | 2,19 | 594,9 | 3,35 | 33,66 |
| Tliq= 45/113 | 10 | 50 | 1836,1 | 6270 | 1580,1 | 2,88 | 9,82 | 2,48 | 638,4 | 3,55 | 41,20 |
| [°C / °F] | -20 | -4 | 307,5 | 1050 | 264,7 | 0,95 | 3,25 | 0,82 | 323,0 | 2,51 | 7,38 |
| cond. pressure | -15 | 5 | 467,7 | 1597 | 402,5 | 1,17 | 4,00 | 1,01 | 399,5 | 2,71 | 11,26 |
| pc= 55/131 | -10 | 14 | 641,5 | 2191 | 552,1 | 1,37 | 4,66 | 1,18 | 469,8 | 2,92 | 15,51 |
| return gas temp | -7 | 20 | 765,9 | 2616 | 659,2 | 1,49 | 5,10 | 1,29 | 512,8 | 3,06 | 18,58 |
| RGT= 32/90 | 0 | 32 | 1048,7 | 3582 | 902,6 | 1,77 | 6,06 | 1,53 | 591,2 | 3,36 | 25,65 |
| liquid temp | 5 | 41 | 1291,8 | 4412 | 1111,7 | 2,01 | 6,87 | 1,73 | 641,8 | 3,58 | 31,83 |
| Tliq= 55/131 | 10 | 50 | 1567,5 | 5353 | 1349,0 | 2,29 | 7,81 | 1,97 | 685,5 | 3,82 | 38,96 |