

Model

| | | | | | |
|-------------|-------------|------------------|------------------|-------------|-----------------|
| Designation | TL4G | 100-115V/50Hz 1~ | 100-115V/60Hz 1~ | Sales code: | 102G3460 |
|-------------|-------------|------------------|------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|---------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R134a, R513A, 0 |
| Oil viscosity | 15cST | Displacement | 3,86cm ³ / 0,24cu.in |
| Oil quantity | 285cm ³ / 9,7fl.oz | Compressors on pallet | 125 |
| Refr. charge - tech. limit | 400g / 14,1oz | | |
| Free gas volume comp. | 1600cm ³ / 54,1fl.oz | | |
| Weight | 7,5kg / 16,5lbs | | |
| Motor protection | 1# internal | | |
| Winding resistance main | 3,2Ω (at 25°C) | | |
| Winding resistance aux | 3,4Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 130°C / 266°F | | |



General - Configurations with TL4G

| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|------------------------|----------------|----------------|----------------|----------------|
| Motorconfiguration | CSIR | CSIR | RSIR | RSIR |
| Power supply (nominal) | 100-115V/50Hz | 115V/60Hz | 100-115V/50Hz | 115V/60Hz |
| Number of phases | 1 | 1 | 1 | 1 |
| Voltage range | 90-127V | 90-135V | 90-127V | 90-135V |
| Approvals | UL | UL | UL | UL |
| Starting torque | HST | HST | LST | LST |
| Note | - / - | | | |

Applications with TL4G

| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|-------------------------|----------------|----------------|----------------|----------------|
| Refrigerant | R134a | R134a | R134a | R134a |
| Application | LBP+MBP+HBP | LBP+MBP+HBP | LBP+MBP+HBP | LBP+MBP+HBP |
| System cooling | static | static | static | static |
| Hot gas defrost | OK | OK | OK | OK |
| Long interval pull down | OK | OK | OK | OK |

Electrical data - Configurations with TL4G

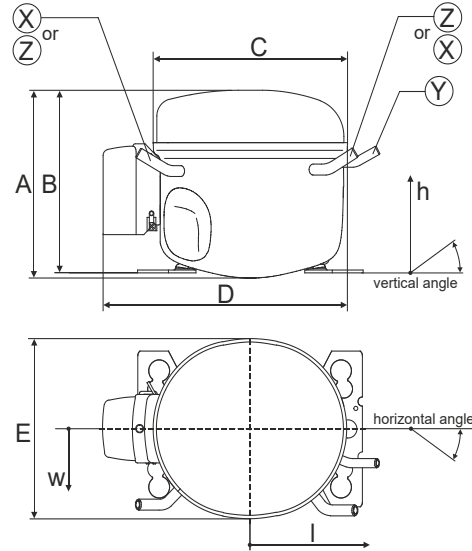
| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|------------------------------|----------------|----------------|----------------|----------------|
| Starting device type | relay | relay | PTC | PTC |
| Run capacitor | -/- | -/- | -/- | -/- |
| Start capacitor | 240μF | 240μF | -/- | -/- |
| LRA (locked rotor amps / 4s) | 14,2A | | | |
| RLA (rated load amps / 1s) | 2,5A | -/A | -/A | -/A |
| Cut in current | 22,6A | | | |

Model

| | | | | |
|-------------|-------------|-----------------------------------|-------------|-----------------|
| Designation | TL4G | 100-115V/50Hz 1~ 100-115V/60Hz 1~ | Sales code: | 102G3460 |
|-------------|-------------|-----------------------------------|-------------|-----------------|

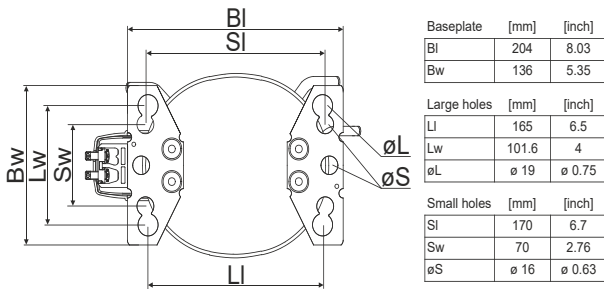
Compressor dimensions

| | | |
|----------------|-------------------|----------------|
| Housing | A Height | 174mm / 6,85in |
| | B Height | 168mm / 6,61in |
| | C Length shell | 176mm / 6,93in |
| | D Length w. cover | 222mm / 8,74in |
| | E Width | 156mm / 6,14in |

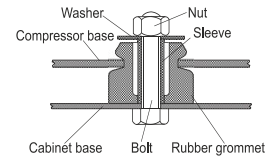


| Connectors | | Suction | Discharge | Process |
|------------------|----------------------------|--------------|--------------|--------------|
| | | X | Y | Z |
| Diameter | [mm] | øi 6,41-6,59 | øi 5,12-5,22 | øi 6,41-6,59 |
| | (i:inside, o:outside) [in] | øi 0,25-0,26 | øi 0,2-0,21 | øi 0,25-0,26 |
| Material | | copper | copper | copper |
| Horizontal angle | ±2° | 0° | 0° | 0° |
| Vertical angle | ±2° | 150° | 28° | 31,5° |
| Position l/h/w | [mm] | -102/105/66 | 117/108/30 | 95/105/71 |
| | [in] | -4/4,1/2,6 | 4,6/4,3/1,2 | 3,7/4,1/2,8 |
| Straight tube l. | [mm] | 12 | 12 | 12 |
| | [in] | 0,5 | 0,5 | 0,5 |

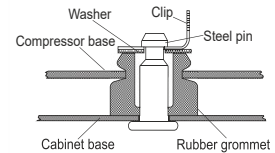
Compressor fixation



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

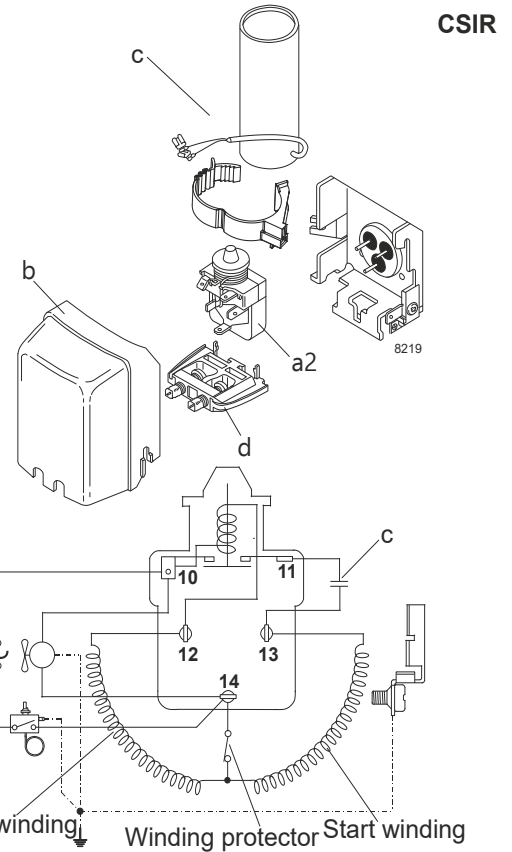
Model

| | | | | | |
|-------------|-------------|----------------------|----------------|-------------|-----------------|
| Designation | TL4G | 100-115V/50Hz | Conf. 1 | Sales code: | 102G3460 |
|-------------|-------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 100-115V/50Hz 1~ |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| Voltage range | 90-127V |
| Starting torque | HST |
| Approvals | UL |

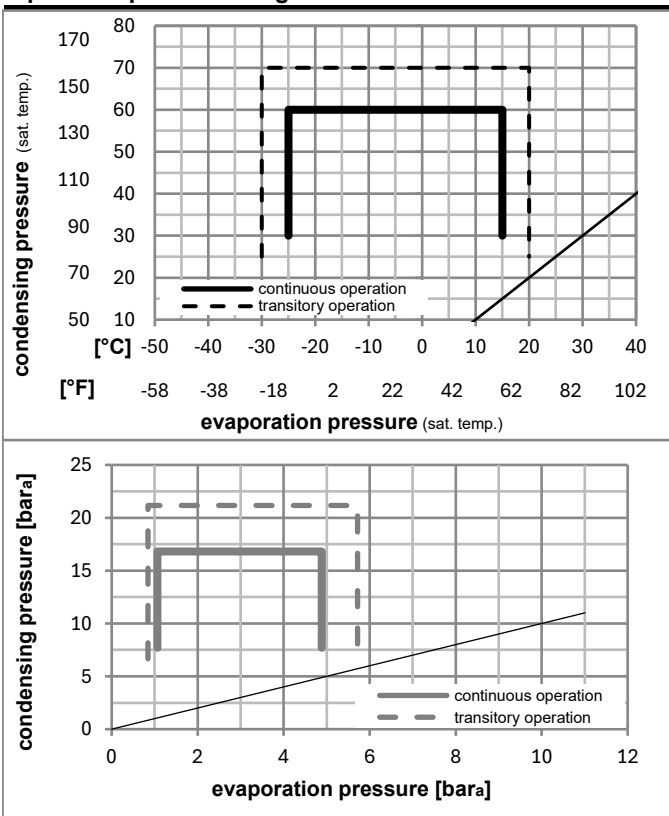
Electrical accessories / wiring diagram



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: | static |

Operation pressure range



Components

| | | |
|----|-------------------------|----------|
| a2 | assy. relay | 117U6003 |
| c | start capacitor (240µF) | 117U5023 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |

Model

Designation **TL4G** **100-115V/50Hz** Conf. 1 Sales code: **102G3460**

Optimization + standard conditions

R134a, 115V/50Hz, CSIR, static, UL

| | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | COP | EER | P1 | Power consumption | | Ref. mass flow | |
|------|---|-----|-----|------|--|---------|----------|------|------|------|-------------------|----------|----------------|-------------|
| | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | | | | [W/W] | [Btu/Wh] | | |
| [°C] | -23 | 54 | 32 | 32 | 74,6 | 255 | 64,2 | 0,78 | 2,66 | 0,67 | 95,7 | 1,75 | 1,45 | ASHRAE LBP |
| [°F] | -10 | 130 | 90 | 90 | | | | | | | | | | |
| [°C] | -7 | 54 | 35 | 46 | 179,6 | 613 | 154,6 | 1,22 | 4,17 | 1,05 | 147,3 | 1,96 | 3,92 | ASHRAE MBP |
| [°F] | 20 | 130 | 95 | 115 | | | | | | | | | | |
| [°C] | 7,2 | 54 | 35 | 46 | 337,4 | 1152 | 290,4 | 1,71 | 5,85 | 1,47 | 197,0 | 2,41 | 7,49 | ASHRAE HBP |
| [°F] | 45 | 130 | 95 | 115 | | | | | | | | | | |
| [°C] | -35 | 40 | 20 | 40 | 28,3 | 97 | 24,4 | 0,35 | 1,20 | 0,30 | 80,7 | 1,68 | 0,62 | EN12900 LBP |
| [°F] | -31 | 104 | 68 | 104 | | | | | | | | | | |
| [°C] | -10 | 45 | 20 | 45 | 163,0 | 557 | 140,3 | 1,24 | 4,25 | 1,07 | 130,9 | 1,89 | 3,82 | EN12900 MBP |
| [°F] | 14 | 113 | 68 | 113 | | | | | | | | | | |
| [°C] | 5 | 50 | 20 | 50 | 288,8 | 986 | 248,6 | 1,57 | 5,38 | 1,35 | 183,5 | 2,29 | 7,28 | EN12900 HBP |
| [°F] | 41 | 122 | 68 | 122 | | | | | | | | | | |

Performance tables

R134a, 115V/50Hz, CSIR, static, UL

| | pe | | Cooling capacity | | | COP | EER | P1 | I | m | |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -25 | -13 | 68,1 | 233 | 58,6 | 0,73 | 2,48 | 0,62 | 93,9 | 1,75 | 1,48 |
| cond. pressure | -23 | -10 | 76,8 | 262 | 66,1 | 0,79 | 2,69 | 0,68 | 97,4 | 1,76 | 1,67 |
| pc= 45/113 | -9 | 15 | 173,9 | 594 | 149,6 | 1,31 | 4,48 | 1,13 | 132,5 | 1,90 | 3,81 |
| return gas temp. | -4 | 25 | 226,3 | 773 | 194,8 | 1,52 | 5,19 | 1,31 | 148,8 | 2,00 | 4,98 |
| RGT= 32/90 | 0 | 32 | 268,2 | 916 | 230,8 | 1,67 | 5,70 | 1,44 | 160,7 | 2,09 | 5,93 |
| liquid temp | 4,4 | 40 | 321,7 | 1099 | 276,8 | 1,84 | 6,30 | 1,59 | 174,5 | 2,22 | 7,16 |
| Tliq= 45/113 | 15 | 59 | 474,1 | 1619 | 408,0 | 2,29 | 7,82 | 1,97 | 207,1 | 2,68 | 10,74 |
| [°C / °F] | -25 | -13 | 53,7 | 183 | 46,2 | 0,59 | 2,01 | 0,51 | 91,1 | 1,73 | 1,28 |
| cond. pressure | -23 | -10 | 60,3 | 206 | 51,9 | 0,63 | 2,16 | 0,54 | 95,4 | 1,75 | 1,44 |
| pc= 55/131 | -9 | 15 | 140,2 | 479 | 120,6 | 1,02 | 3,47 | 0,87 | 137,9 | 1,91 | 3,39 |
| return gas temp | -4 | 25 | 185,8 | 635 | 159,9 | 1,18 | 4,03 | 1,02 | 157,3 | 2,03 | 4,52 |
| RGT= 32/90 | 0 | 32 | 222,9 | 761 | 191,9 | 1,30 | 4,45 | 1,12 | 171,2 | 2,14 | 5,45 |
| liquid temp | 4,4 | 40 | 271,0 | 925 | 233,2 | 1,45 | 4,94 | 1,24 | 187,5 | 2,30 | 6,67 |
| Tliq= 55/131 | 15 | 59 | 410,7 | 1403 | 353,5 | 1,82 | 6,21 | 1,56 | 225,9 | 2,84 | 10,32 |

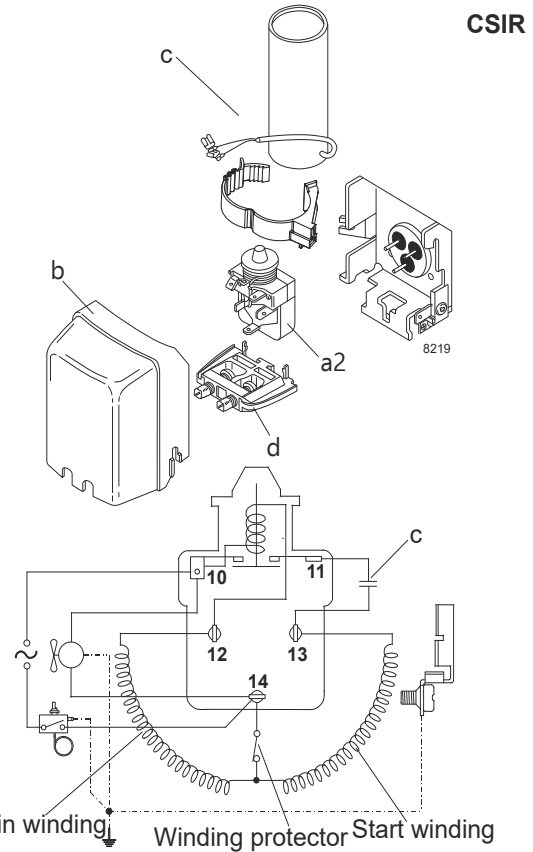
Model

| | | | | | |
|-------------|-------------|------------------|----------------|-------------|-----------------|
| Designation | TL4G | 115V/60Hz | Conf. 2 | Sales code: | 102G3460 |
|-------------|-------------|------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|--------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| Voltage range | 90-135V |
| Starting torque | HST |
| Approvals | UL |

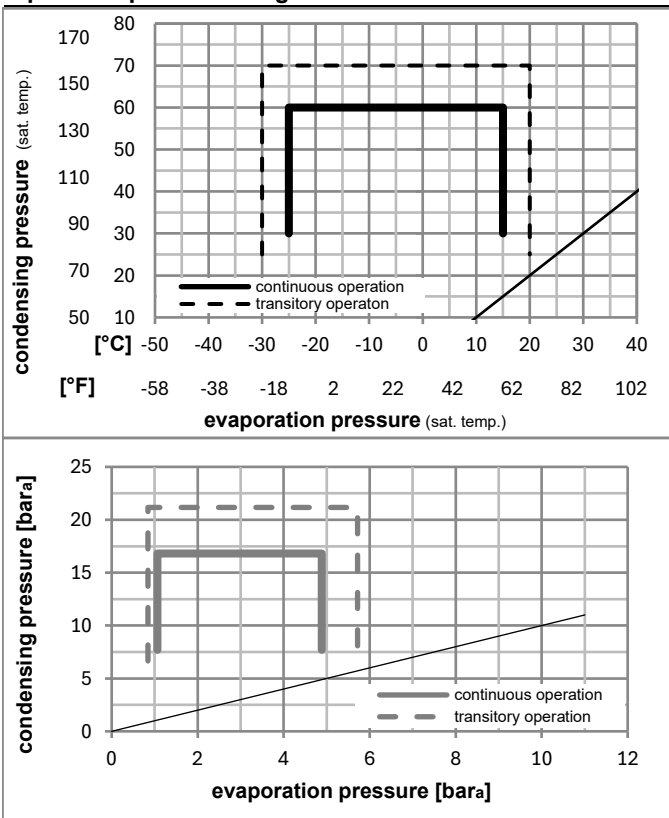
Electrical accessories / wiring diagram



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: | static |

Operation pressure range



Components

| | | |
|----|-------------------------|----------|
| a2 | assy. relay | 117U6003 |
| c | start capacitor (240µF) | 117U5023 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |

Model

| | | | | | |
|-------------|-------------|------------------|----------------|-------------|-----------------|
| Designation | TL4G | 115V/60Hz | Conf. 2 | Sales code: | 102G3460 |
|-------------|-------------|------------------|----------------|-------------|-----------------|

Optimization + standard conditions

R134a, 115V/60Hz, CSIR, static, UL

| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | COP | EER | Power consumption | | |
|------|------|---|------|------|------|--|---------|----------|------------------|----------|--------------|-------|------------------|--------|--|-----|-----|-------------------|--|-------------|
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1 | I | m | | | | | | |
| [°C] | [°F] | [°C] | [°F] | [°C] | [°C] | | | | | | | [W] | [A] | [kg/h] | | | | | | |
| -23 | -10 | 54 | 130 | 32 | 32 | 89,5 | 306 | 77,0 | 0,94 | 3,19 | 0,81 | 95,7 | 1,75 | 1,74 | | | | | | ASHRAE LBP |
| -7 | 20 | 54 | 130 | 35 | 46 | 215,6 | 736 | 185,5 | 1,46 | 5,00 | 1,26 | 147,3 | 1,96 | 4,70 | | | | | | ASHRAE MBP |
| 7,2 | 45 | 54 | 130 | 35 | 46 | 404,9 | 1383 | 348,5 | 2,06 | 7,02 | 1,77 | 197,0 | 2,41 | 8,98 | | | | | | ASHRAE HBP |
| -35 | -31 | 40 | 104 | 20 | 40 | 34,0 | 116 | 29,2 | 0,42 | 1,44 | 0,36 | 80,7 | 1,68 | 0,75 | | | | | | EN12900 LBP |
| -10 | 14 | 45 | 113 | 20 | 45 | 195,6 | 668 | 168,3 | 1,49 | 5,10 | 1,29 | 130,9 | 1,89 | 4,58 | | | | | | EN12900 MBP |
| 5 | 41 | 50 | 122 | 20 | 50 | 346,6 | 1184 | 298,3 | 1,89 | 6,45 | 1,63 | 183,5 | 2,29 | 8,73 | | | | | | EN12900 HBP |

Performance tables

R134a, 115V/60Hz, CSIR, static, UL

| | pe | | Cooling capacity | | | COP | EER | P1 | I | m | |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -25 | -13 | 81,7 | 279 | 70,3 | 0,87 | 2,97 | 0,75 | 93,9 | 1,75 | 1,77 |
| cond. pressure | -23 | -10 | 92,2 | 315 | 79,3 | 0,95 | 3,23 | 0,81 | 97,4 | 1,76 | 2,00 |
| pc= 45/113 | -9 | 15 | 208,7 | 713 | 179,6 | 1,57 | 5,38 | 1,36 | 132,5 | 1,90 | 4,57 |
| return gas temp. | -4 | 25 | 271,6 | 928 | 233,7 | 1,82 | 6,23 | 1,57 | 148,8 | 2,00 | 5,98 |
| RGT= 32/90 | 0 | 32 | 321,9 | 1099 | 277,0 | 2,00 | 6,84 | 1,72 | 160,7 | 2,09 | 7,12 |
| liquid temp | 4,4 | 40 | 386,0 | 1318 | 332,2 | 2,21 | 7,55 | 1,90 | 174,5 | 2,22 | 8,59 |
| Tliq= 45/113 | 15 | 59 | 569,0 | 1943 | 489,7 | 2,75 | 9,38 | 2,36 | 207,1 | 2,68 | 12,89 |
| [°C / °F] | -25 | -13 | 64,4 | 220 | 55,4 | 0,71 | 2,41 | 0,61 | 91,1 | 1,73 | 1,54 |
| cond. pressure | -23 | -10 | 72,4 | 247 | 62,3 | 0,76 | 2,59 | 0,65 | 95,4 | 1,75 | 1,73 |
| pc= 55/131 | -9 | 15 | 168,2 | 574 | 144,7 | 1,22 | 4,16 | 1,05 | 137,9 | 1,91 | 4,07 |
| return gas temp | -4 | 25 | 222,9 | 761 | 191,9 | 1,42 | 4,84 | 1,22 | 157,3 | 2,03 | 5,43 |
| RGT= 32/90 | 0 | 32 | 267,5 | 914 | 230,2 | 1,56 | 5,34 | 1,34 | 171,2 | 2,14 | 6,54 |
| liquid temp | 4,4 | 40 | 325,2 | 1110 | 279,8 | 1,73 | 5,92 | 1,49 | 187,5 | 2,30 | 8,01 |
| Tliq= 55/131 | 15 | 59 | 492,9 | 1683 | 424,2 | 2,18 | 7,45 | 1,88 | 225,9 | 2,84 | 12,38 |

Model

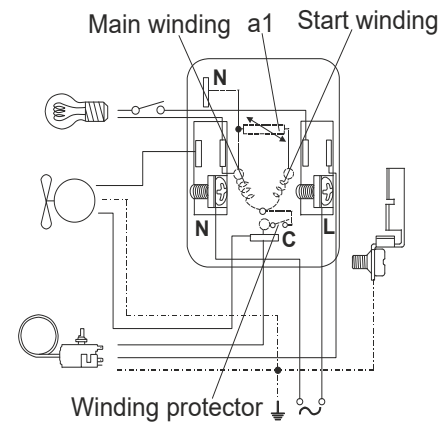
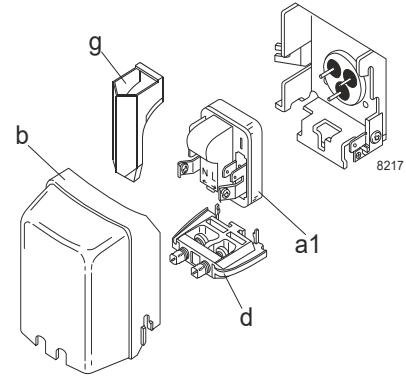
| | | | | | |
|-------------|-------------|----------------------|----------------|-------------|-----------------|
| Designation | TL4G | 100-115V/50Hz | Conf. 3 | Sales code: | 102G3460 |
|-------------|-------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | RSIR |
| Power supply (nominal) | 100-115V/50Hz 1~ |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| Voltage range | 90-127V |
| Starting torque | LST |
| Approvals | UL |

Electrical accessories / wiring diagram

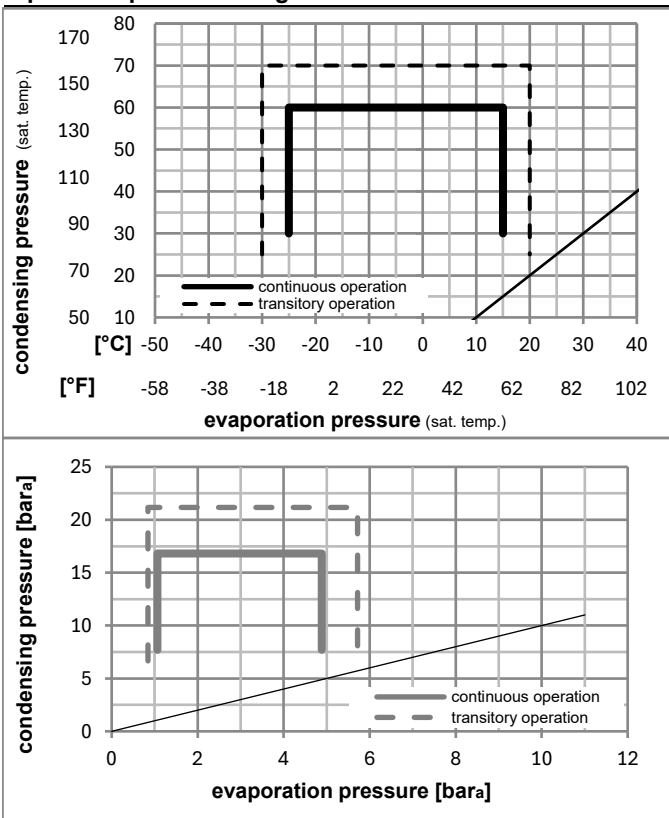
RSIR



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: | static |

Operation pressure range



Components

| | | |
|----|---------------------------------|----------|
| a1 | PTC starter (115V, 50hm, 6.3mm) | 103N0026 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |
| g | protection screen for PTC | 103N0476 |

Alternative components

| | | |
|----|---------------------------------|----------|
| a1 | PTC starter (115V, 50hm, 4.8mm) | 103N0023 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |
| g | protection screen for PTC | 103N0476 |

Model

| | | | | | |
|-------------|-------------|----------------------|----------------|-------------|-----------------|
| Designation | TL4G | 100-115V/50Hz | Conf. 3 | Sales code: | 102G3460 |
|-------------|-------------|----------------------|----------------|-------------|-----------------|

Optimization + standard conditions

R134a, 115V/50Hz, RSIR, static, UL

| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | Return gas temp. | | | Liquid temp. | | | Cooling capacity | | | COP | EER | Power consumption | | | |
|------|------|---|------|------|-------|--|---------|----------|------------------|----------|-----------|--------------|------|---|------------------|-----|--------|-----|-----|-------------------|-------------|--|--|
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1 | I | m | [W] | [A] | [kg/h] | | | | | | |
| [°C] | [°F] | [°C] | [°C] | [°C] | [°C] | | | | | | | | | | | | | | | | | | |
| -23 | -10 | 54 | 32 | 32 | 74,6 | 255 | 64,2 | 0,78 | 2,66 | 0,67 | 95,7 | 1,75 | 1,45 | | | | | | | | ASHRAE LBP | | |
| -7 | 20 | 54 | 35 | 46 | 179,6 | 613 | 154,6 | 1,22 | 4,17 | 1,05 | 147,3 | 1,96 | 3,92 | | | | | | | | ASHRAE MBP | | |
| 7,2 | 45 | 54 | 35 | 46 | 337,4 | 1152 | 290,4 | 1,71 | 5,85 | 1,47 | 197,0 | 2,41 | 7,49 | | | | | | | | ASHRAE HBP | | |
| -35 | -31 | 40 | 20 | 40 | 28,3 | 97 | 24,4 | 0,35 | 1,20 | 0,30 | 80,7 | 1,68 | 0,62 | | | | | | | | EN12900 LBP | | |
| -10 | 14 | 45 | 20 | 45 | 163,0 | 557 | 140,3 | 1,24 | 4,25 | 1,07 | 130,9 | 1,89 | 3,82 | | | | | | | | EN12900 MBP | | |
| 5 | 41 | 50 | 20 | 50 | 288,8 | 986 | 248,6 | 1,57 | 5,38 | 1,35 | 183,5 | 2,29 | 7,28 | | | | | | | | EN12900 HBP | | |

Performance tables

R134a, 115V/50Hz, RSIR, static, UL

| | pe | | Cooling capacity | | | COP | EER | P1 | I | m | |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -25 | -13 | 68,1 | 233 | 58,6 | 0,73 | 2,48 | 0,62 | 93,9 | 1,75 | 1,48 |
| cond. pressure | -23 | -10 | 76,8 | 262 | 66,1 | 0,79 | 2,69 | 0,68 | 97,4 | 1,76 | 1,67 |
| pc= 45/113 | -9 | 15 | 173,9 | 594 | 149,6 | 1,31 | 4,48 | 1,13 | 132,5 | 1,90 | 3,81 |
| return gas temp. | -4 | 25 | 226,3 | 773 | 194,8 | 1,52 | 5,19 | 1,31 | 148,8 | 2,00 | 4,98 |
| RGT= 32/90 | 0 | 32 | 268,2 | 916 | 230,8 | 1,67 | 5,70 | 1,44 | 160,7 | 2,09 | 5,93 |
| liquid temp | 4,4 | 40 | 321,7 | 1099 | 276,8 | 1,84 | 6,30 | 1,59 | 174,5 | 2,22 | 7,16 |
| Tliq= 45/113 | 15 | 59 | 474,1 | 1619 | 408,0 | 2,29 | 7,82 | 1,97 | 207,1 | 2,68 | 10,74 |
| [°C / °F] | -25 | -13 | 53,7 | 183 | 46,2 | 0,59 | 2,01 | 0,51 | 91,1 | 1,73 | 1,28 |
| cond. pressure | -23 | -10 | 60,3 | 206 | 51,9 | 0,63 | 2,16 | 0,54 | 95,4 | 1,75 | 1,44 |
| pc= 55/131 | -9 | 15 | 140,2 | 479 | 120,6 | 1,02 | 3,47 | 0,87 | 137,9 | 1,91 | 3,39 |
| return gas temp | -4 | 25 | 185,8 | 635 | 159,9 | 1,18 | 4,03 | 1,02 | 157,3 | 2,03 | 4,52 |
| RGT= 32/90 | 0 | 32 | 222,9 | 761 | 191,9 | 1,30 | 4,45 | 1,12 | 171,2 | 2,14 | 5,45 |
| liquid temp | 4,4 | 40 | 271,0 | 925 | 233,2 | 1,45 | 4,94 | 1,24 | 187,5 | 2,30 | 6,67 |
| Tliq= 55/131 | 15 | 59 | 410,7 | 1403 | 353,5 | 1,82 | 6,21 | 1,56 | 225,9 | 2,84 | 10,32 |

Model

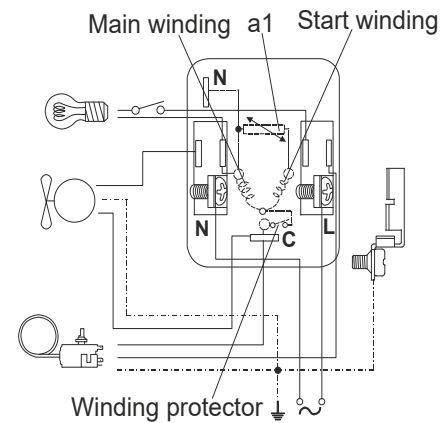
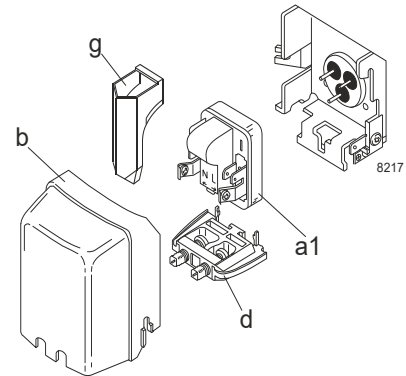
| | | | | | |
|-------------|-------------|------------------|----------------|-------------|-----------------|
| Designation | TL4G | 115V/60Hz | Conf. 4 | Sales code: | 102G3460 |
|-------------|-------------|------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|--------------|
| Motorconfiguration | RSIR |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant | R134a |
| Application | LBP+MBP+HBP |
| Voltage range | 90-135V |
| Starting torque | LST |
| Approvals | UL |

Electrical accessories / wiring diagram

RSIR



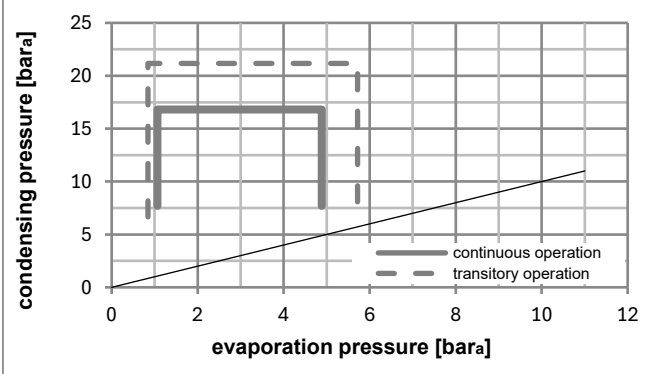
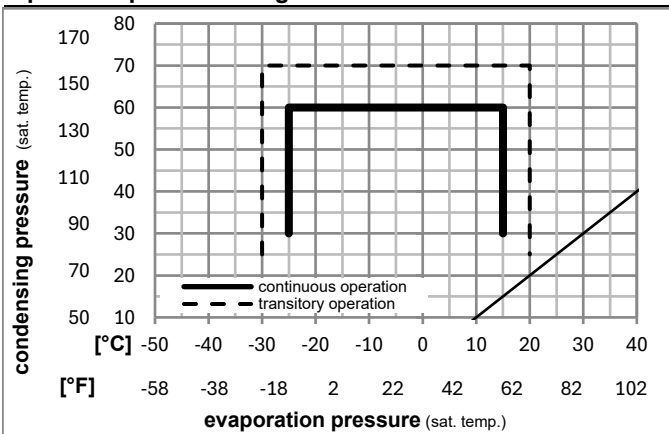
Ambient/ machine room temperatures minimum /maximum

Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: static

Operation pressure range



Components

| | | |
|----|---------------------------------|----------|
| a1 | PTC starter (115V, 50hm, 6.3mm) | 103N0026 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |
| g | protection screen for PTC | 103N0476 |

Alternative components

| | | |
|----|---------------------------------|----------|
| a1 | PTC starter (115V, 50hm, 4.8mm) | 103N0023 |
| b | plastic cover | 103N2011 |
| d | cord relief | 103N1010 |
| g | protection screen for PTC | 103N0476 |

Model

| | | | | | |
|-------------|-------------|------------------|----------------|-------------|-----------------|
| Designation | TL4G | 115V/60Hz | Conf. 4 | Sales code: | 102G3460 |
|-------------|-------------|------------------|----------------|-------------|-----------------|

Optimization + standard conditions

R134a, 115V/60Hz, RSIR, static, UL

| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | COP | EER | Power consumption | | |
|------|------|---|------|------|-------|--|---------|----------|------------------|----------|--------------|------|------------------|-------------|--|-----|-----|-------------------|--|--|
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1 | I | m | | | | | | |
| [°C] | [°F] | [°C] | [°C] | [°C] | [°C] | | | | | | | [W] | [A] | [kg/h] | | | | | | |
| -23 | -10 | 54 | 32 | 32 | 89,5 | 306 | 77,0 | 0,94 | 3,19 | 0,81 | 95,7 | 1,75 | 1,74 | ASHRAE LBP | | | | | | |
| -7 | 20 | 54 | 35 | 46 | 215,6 | 736 | 185,5 | 1,46 | 5,00 | 1,26 | 147,3 | 1,96 | 4,70 | ASHRAE MBP | | | | | | |
| 7,2 | 45 | 54 | 35 | 46 | 404,9 | 1383 | 348,5 | 2,06 | 7,02 | 1,77 | 197,0 | 2,41 | 8,98 | ASHRAE HBP | | | | | | |
| -35 | -31 | 40 | 20 | 40 | 34,0 | 116 | 29,2 | 0,42 | 1,44 | 0,36 | 80,7 | 1,68 | 0,75 | EN12900 LBP | | | | | | |
| -10 | 14 | 45 | 20 | 45 | 195,6 | 668 | 168,3 | 1,49 | 5,10 | 1,29 | 130,9 | 1,89 | 4,58 | EN12900 MBP | | | | | | |
| 5 | 41 | 50 | 20 | 50 | 346,6 | 1184 | 298,3 | 1,89 | 6,45 | 1,63 | 183,5 | 2,29 | 8,73 | EN12900 HBP | | | | | | |

Performance tables

R134a, 115V/60Hz, RSIR, static, UL

| | pe | | Cooling capacity | | | COP | EER | P1 | I | m | |
|------------------|------|------|------------------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -25 | -13 | 81,7 | 279 | 70,3 | 0,87 | 2,97 | 0,75 | 93,9 | 1,75 | 1,77 |
| cond. pressure | -23 | -10 | 92,2 | 315 | 79,3 | 0,95 | 3,23 | 0,81 | 97,4 | 1,76 | 2,00 |
| pc= 45/113 | -9 | 15 | 208,7 | 713 | 179,6 | 1,57 | 5,38 | 1,36 | 132,5 | 1,90 | 4,57 |
| return gas temp. | -4 | 25 | 271,6 | 928 | 233,7 | 1,82 | 6,23 | 1,57 | 148,8 | 2,00 | 5,98 |
| RGT= 32/90 | 0 | 32 | 321,9 | 1099 | 277,0 | 2,00 | 6,84 | 1,72 | 160,7 | 2,09 | 7,12 |
| liquid temp | 4,4 | 40 | 386,0 | 1318 | 332,2 | 2,21 | 7,55 | 1,90 | 174,5 | 2,22 | 8,59 |
| Tliq= 45/113 | 15 | 59 | 569,0 | 1943 | 489,7 | 2,75 | 9,38 | 2,36 | 207,1 | 2,68 | 12,89 |
| [°C / °F] | -25 | -13 | 64,4 | 220 | 55,4 | 0,71 | 2,41 | 0,61 | 91,1 | 1,73 | 1,54 |
| cond. pressure | -23 | -10 | 72,4 | 247 | 62,3 | 0,76 | 2,59 | 0,65 | 95,4 | 1,75 | 1,73 |
| pc= 55/131 | -9 | 15 | 168,2 | 574 | 144,7 | 1,22 | 4,16 | 1,05 | 137,9 | 1,91 | 4,07 |
| return gas temp | -4 | 25 | 222,9 | 761 | 191,9 | 1,42 | 4,84 | 1,22 | 157,3 | 2,03 | 5,43 |
| RGT= 32/90 | 0 | 32 | 267,5 | 914 | 230,2 | 1,56 | 5,34 | 1,34 | 171,2 | 2,14 | 6,54 |
| liquid temp | 4,4 | 40 | 325,2 | 1110 | 279,8 | 1,73 | 5,92 | 1,49 | 187,5 | 2,30 | 8,01 |
| Tliq= 55/131 | 15 | 59 | 492,9 | 1683 | 424,2 | 2,18 | 7,45 | 1,88 | 225,9 | 2,84 | 12,38 |