

**Model**

|             |                |                         |             |                 |
|-------------|----------------|-------------------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz 1~</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|-------------------------|-------------|-----------------|

**Compressor design**

|                            |                                  |                       |                                 |
|----------------------------|----------------------------------|-----------------------|---------------------------------|
| Oil type                   | Polyolester                      | Refrigerant(s)        | <b>R404A, R452A, R507</b>       |
| Oil viscosity              | 46cST                            | Displacement          | 33,8cm <sup>3</sup> / 2,06cu.in |
| Oil quantity               | 906cm <sup>3</sup> / 30,6fl.oz   | Compressors on pallet | 48                              |
| Refr. charge - tech. limit | 2000g / 70,5oz                   |                       |                                 |
| Free gas volume comp.      | 3540cm <sup>3</sup> / 119,7fl.oz |                       |                                 |
| Weight                     | 22,3kg / 49,2lbs                 |                       |                                 |
| Motor protection           | 1# internal                      |                       |                                 |
| Winding resistance main    | 1,5Ω (at 25°C)                   |                       |                                 |
| Winding resistance aux     | 5,8Ω (at 25°C)                   |                       |                                 |
| Max. winding temp.         |                                  |                       |                                 |
| Max. discharge temp.       | 120°C / 248°F                    |                       |                                 |



**General - Configurations with GS34MLX**

|                        | <b>Conf. 1</b>                                     | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|------------------------|--|----------------|----------------|----------------|
| Motorconfiguration     | CSCR   | CSCR           | CSCR           | CSCR           |
| Power supply (nominal) | 220-240V/50Hz                                      | 220-240V/50Hz  | 220-240V/50Hz  | 220-240V/50Hz  |
| Number of phases       | 1  | 1              | 1              | 1              |
| Voltage range          | 198-254V   | 198-254V       | 198-254V       | 198-254V       |
| Approvals              | VDE, CCC, EAC                                      | VDE, CCC, EAC  |                |                |
| Starting torque        | HST  | HST            | HST            | HST            |
| Note                   | Cover, clamp, gasket: pre-assembled to compressor. |                |                |                |

**Applications with GS34MLX**

|                         | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|-------------------------|----------------|----------------|----------------|----------------|
| Refrigerant             | R404A          | R452A          | R448A          | R449A          |
| Application             | MBP            | MBP            | MBP            | MBP            |
| System cooling          | fan 3m/s       | fan 3m/s       | fan 3m/s       | fan 3m/s       |
| Hot gas defrost         | OK             | OK             | OK             | OK             |
| Long interval pull down | OK             | OK             | OK             | OK             |

**Electrical data - Configurations with GS34MLX**

|                              | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|------------------------------|----------------|----------------|----------------|----------------|
| Starting device type         | relay          | relay          | relay          | relay          |
| Run capacitor                | 20μF           | 20μF           | 20μF           | 20μF           |
| Start capacitor              | 100μF          | 100μF          | 100μF          | 100μF          |
| LRA (locked rotor amps / 4s) | 46A            | 46A            | 46A            | 46A            |
| RLA (rated load amps / 1s)   | 9,3A           | 9,3A           | 9,3A           | 9,3A           |
| Cut in current               | 46A            | 46A            | 46A            | 46A            |

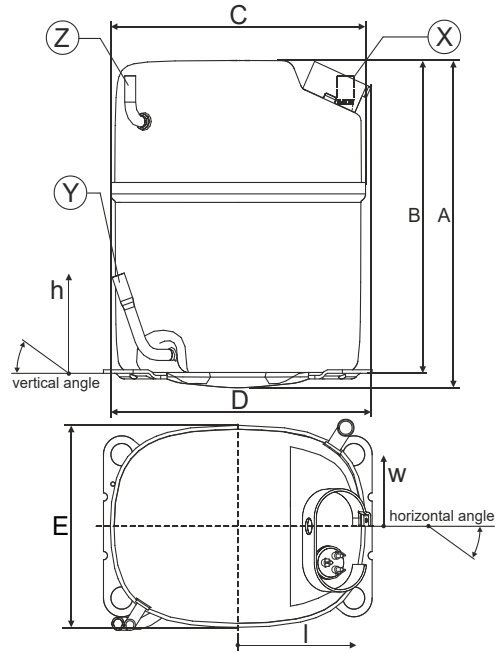
**Model**

|             |                |                         |             |                 |
|-------------|----------------|-------------------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz 1~</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|-------------------------|-------------|-----------------|

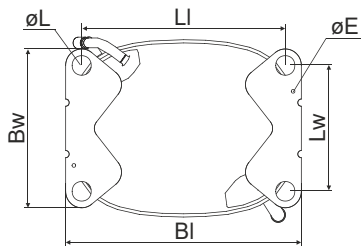
**Compressor dimensions**

|                |                   |                 |
|----------------|-------------------|-----------------|
| <b>Housing</b> | A Height          | 279mm / 10,98in |
|                | B Height          | 267mm / 10,51in |
|                | C Length shell    | 224mm / 8,82in  |
|                | D Length w. cover | 232mm / 9,13in  |
|                | E Width           | 173mm / 6,81in  |

|                  |                            | Suction        | Discharge     | Process      |
|------------------|----------------------------|----------------|---------------|--------------|
|                  |                            | X              | Y             | Z            |
| Diameter         | [mm]                       | øi 16,03-16,13 | øi 6,45-6,55  | øi 6,4-6,6   |
|                  | (i:inside, o:outside) [in] | øi 0,63-0,64   | øi 0,25-0,26  | øi 0,25-0,26 |
| Material         |                            | copper         | copper        | copper       |
| Horizontal angle | ±2°                        | 0°             | 0°            | 0°           |
| Vertical angle   | ±2°                        | 90°            | 71°           | 90°          |
| Position l/h/w   | [mm]                       | -95/234/-84    | -105/84/-84   | 95/234/84    |
|                  | [in]                       | -3,7/9,2/-3,3  | -4,1/3,3/-3,3 | 3,7/9,2/3,3  |
| Straight tube l. | [mm]                       | 18             | 19            | 15           |
|                  | [in]                       | 0,7            | 0,7           | 0,6          |



**Compressor fixation**

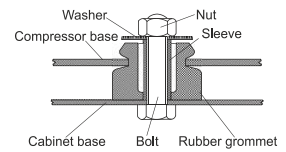


| Baseplate | [mm]  | [inch] |
|-----------|-------|--------|
| BI        | 235   | 9.25   |
| Bw        | 154   | 6.06   |
| øE        | ø 3.6 | ø 0.14 |

| Large holes | [mm] | [inch] |
|-------------|------|--------|
| LI          | 203  | 7.99   |
| LW          | 122  | 4.80   |
| øL          | ø 19 | ø 0.75 |

**Bolt joint**



**Mounting accessories**

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

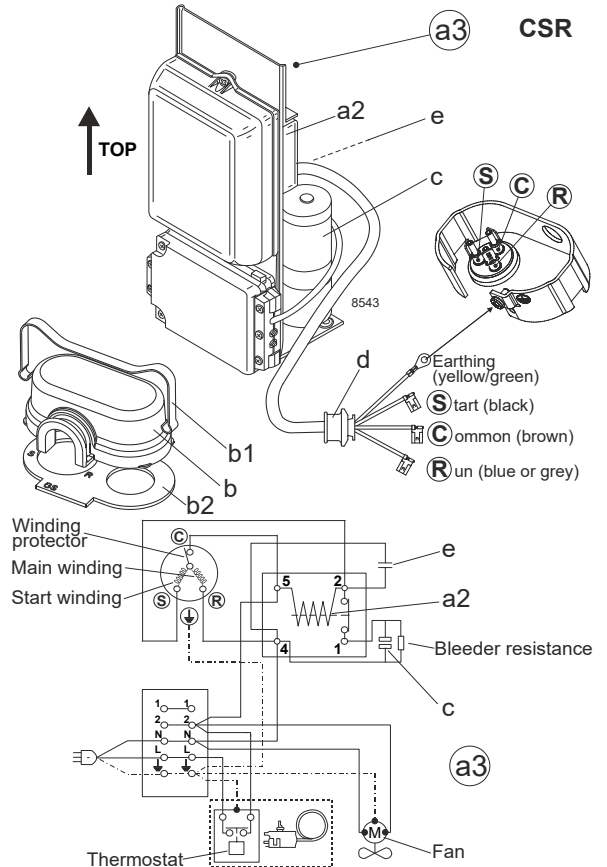
## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz</b> | <b>Conf. 1</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                   |
|------------------------|-------------------|
| Motorconfiguration     | CSCR              |
| Power supply (nominal) | 220-240V/50Hz 1~  |
| Refrigerant            | R404A             |
| Application            | MBP               |
| Voltage range          | 198-254V          |
| Starting torque        | HST               |
| Approvals              | VDE<br>CCC<br>EAC |

## Electrical accessories / wiring diagram



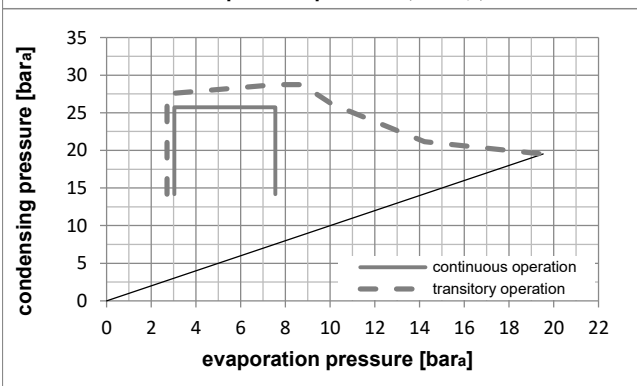
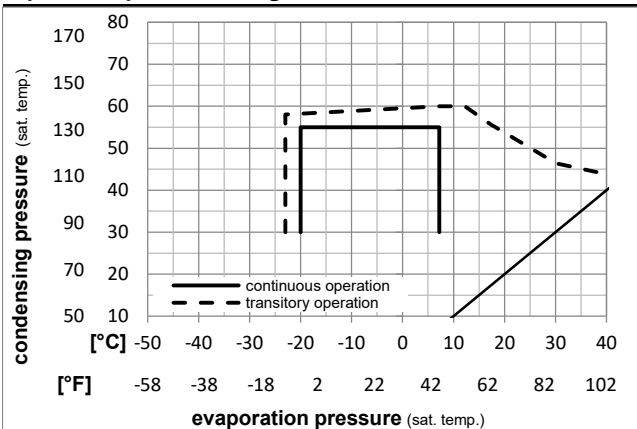
## Ambient temperatures / system cooling

|                           |              |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F  |
| Ambient temperature max.: | 43°C / 110°F |

### System cooling (n/a: outside limits)

| T ambient    | LBP | MBP      | HBP |
|--------------|-----|----------|-----|
| 32°C / 90°F  | n/a | fan 3m/s | n/a |
| 38°C / 100°F | n/a | fan 3m/s | n/a |
| 43°C / 110°F | n/a | fan 3m/s | n/a |

## Operation pressure range



### Components (cover, clamp, gasket: pre assembled)

|    |                        |          |
|----|------------------------|----------|
| a3 | GS starter kit (600mm) | 117-7056 |
| b  | cover                  | 107B9101 |
| b2 | gasket                 | 107B9100 |
| b1 | clamp                  | 107B9104 |

**Model**

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz</b> | <b>Conf. 1</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

**Optimization + standard conditions**

R404A, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC, EAC

|      |       | Evaporating pressure (saturation temperature) |      |      |        | Condensing pressure (saturation temperature) |         |          |       |          |           | Power consumption   |        |                |   |   |  |
|------|-------|---|------|------|--------|--|---------|----------|-------|----------|-----------|---------------------|--------|----------------|---|---|--|
|      |       |   |      |      |        | Return gas temp.                             |         |          |       |          |           | Current consumption |        |                |   |   |  |
|      |       |   |      |      |        | Liquid temp.                                 |         |          |       |          |           | Ref. mass flow      |        |                |   |   |  |
|      |       |   |      |      |        | Cooling capacity                             |         |          |       |          |           | COP                 | EER    | P1             | I | m |  |
|      |       | pe  | pc   | RGT  | Tliq   | [W]  | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]                 | [A]    | [kg/h]         |   |   |  |
| [°C] | -6,66 | 54,4  | 35   | 46,1 | 3363,0 | 11485  | 2894,3  | 1,71     | 5,85  | 1,47     | 1962,8    | 10,21               | 92,53  | ASHRAE<br>MBP  |   |   |  |
| [°F] | 20    | 130   | 95   | 115  |        |  |         |          |       |          |           |                     |        |                |   |   |  |
| [°C] | -10   | 55  | 32   | 55   | 2521,0 | 8610   | 2169,6  | 1,36     | 4,66  | 1,17     | 1848,1    | 9,74                | 80,70  | cecomaf<br>MBP |   |   |  |
| [°F] | 14    | 131   | 89,6 | 131  |        |  |         |          |       |          |           |                     |        |                |   |   |  |
| [°C] | -10   | 45  | 20   | 45   | 2953,1 | 10085  | 2541,5  | 1,71     | 5,85  | 1,47     | 1725,3    | 9,28                | 88,95  | EN12900<br>MBP |   |   |  |
| [°F] | 14    | 113   | 68   | 113  |        |  |         |          |       |          |           |                     |        |                |   |   |  |
| [°C] | -6,66 | 48,9  | 18,3 | 48,9 | 3061,9 | 10457  | 2635,1  | 1,63     | 5,55  | 1,40     | 1883,4    | 9,92                | 100,05 | ARI540<br>MBP  |   |   |  |
| [°F] | 20    | 120   | 65   | 120  |        |  |         |          |       |          |           |                     |        |                |   |   |  |
| [°C] | -10   | 45  | 32   | 45   | 3136,9 | 10713  | 2699,7  | 1,82     | 6,21  | 1,56     | 1725,3    | 9,28                | 86,38  | opt            |   |   |  |
| [°F] | 14    | 113   | 89,6 | 113  |        |  |         |          |       |          |           |                     |        |                |   |   |  |
| [°C] | -25   | 45  | 32   | 45   | 1591,9 | 5437   | 1370,0  | 1,26     | 4,31  | 1,09     | 1260,4    | 7,64                | 42,94  | opt            |   |   |  |
| [°F] | -13   | 113   | 89,6 | 113  |        |  |         |          |       |          |           |                     |        |                |   |   |  |

**Performance tables**

R404A, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC, EAC

|                  | 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]        | -20  | -4               | 2041,7 | 6973    | 1757,1   | 1,44  | 4,92     | 1,24      | 1417,2 | 8,13  | 55,39  |
| cond. pressure   | -15  | 5                | 2552,7 | 8718    | 2196,9   | 1,63  | 5,55     | 1,40      | 1570,8 | 8,68  | 69,73  |
| pc= 45/113       | -10  | 14               | 3136,9 | 10713   | 2699,7   | 1,82  | 6,21     | 1,56      | 1725,3 | 9,28  | 86,38  |
| return gas temp. | -6,7 | 20               | 3568,6 | 12188   | 3071,2   | 1,95  | 6,66     | 1,68      | 1829,8 | 9,72  | 98,87  |
| RGT= 32/90       | -5   | 23               | 3806,8 | 13001   | 3276,2   | 2,02  | 6,90     | 1,74      | 1884,8 | 9,95  | 105,83 |
| liquid temp      | 0    | 32               | 4575,6 | 15627   | 3937,8   | 2,23  | 7,61     | 1,92      | 2053,2 | 10,67 | 128,64 |
| Tliq= 45/113     | 7,2  | 45               | 5886,2 | 20102   | 5065,7   | 2,54  | 8,67     | 2,18      | 2319,5 | 11,82 | 168,79 |
| [°C / °F]        | -20  | -4               | 1618,9 | 5529    | 1393,3   | 1,09  | 3,74     | 0,94      | 1479,7 | 8,38  | 50,94  |
| cond. pressure   | -15  | 5                | 2041,8 | 6973    | 1757,2   | 1,23  | 4,19     | 1,06      | 1665,1 | 9,03  | 64,75  |
| pc= 55/131       | -10  | 14               | 2521,0 | 8610    | 2169,6   | 1,36  | 4,66     | 1,17      | 1848,1 | 9,74  | 80,70  |
| return gas temp  | -6,7 | 20               | 2874,2 | 9816    | 2473,5   | 1,46  | 4,98     | 1,26      | 1969,6 | 10,24 | 92,66  |
| RGT= 32/90       | -5   | 23               | 3069,0 | 10481   | 2641,2   | 1,51  | 5,16     | 1,30      | 2032,9 | 10,50 | 99,34  |
| liquid temp      | 0    | 32               | 3699,5 | 12634   | 3183,8   | 1,66  | 5,68     | 1,43      | 2223,4 | 11,33 | 121,32 |
| Tliq= 55/131     | 7,2  | 45               | 4782,4 | 16333   | 4115,7   | 1,90  | 6,49     | 1,64      | 2515,9 | 12,62 | 160,50 |

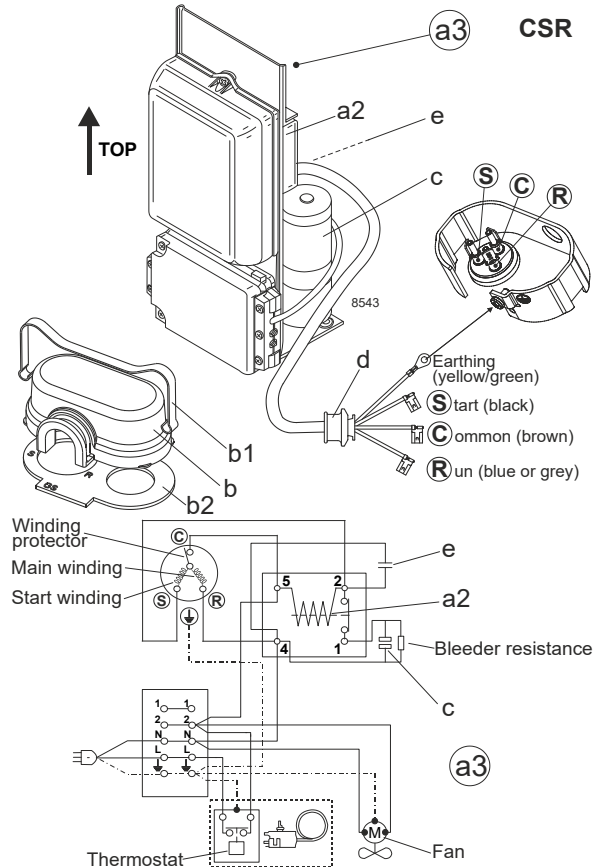
## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz</b> | <b>Conf. 2</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                   |
|------------------------|-------------------|
| Motorconfiguration     | CSCR              |
| Power supply (nominal) | 220-240V/50Hz 1~  |
| Refrigerant            | R452A             |
| Application            | MBP               |
| Voltage range          | 198-254V          |
| Starting torque        | HST               |
| Approvals              | VDE<br>CCC<br>EAC |

## Electrical accessories / wiring diagram

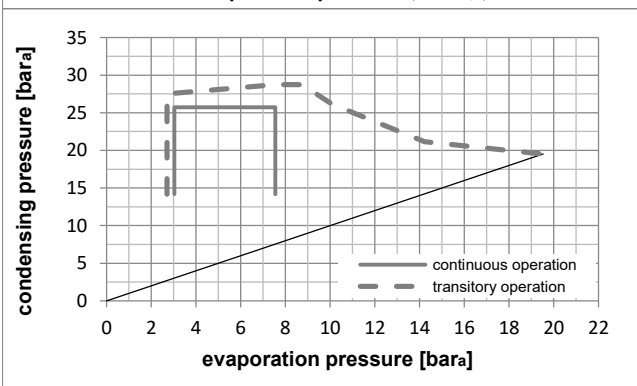
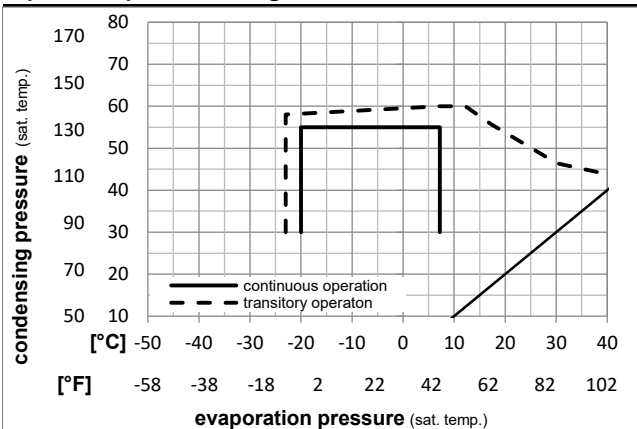


## Ambient temperatures / system cooling

|                           |              |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F  |
| Ambient temperature max.: | 43°C / 110°F |

| System cooling (n/a: outside limits) |     |          |     |
|--------------------------------------|-----|----------|-----|
| T ambient                            | LBP | MBP      | HBP |
| 32°C / 90°F                          | n/a | fan 3m/s | n/a |
| 38°C / 100°F                         | n/a | fan 3m/s | n/a |
| 43°C / 110°F                         | n/a | fan 3m/s | n/a |

## Operation pressure range



## Components (cover, clamp, gasket: pre assembled)

|    |                        |          |
|----|------------------------|----------|
| a3 | GS starter kit (600mm) | 117-7056 |
| b  | cover                  | 107B9101 |
| b2 | gasket                 | 107B9100 |
| b1 | clamp                  | 107B9104 |

**Model**

Designation **GS34MLX 220-240V/50Hz** Conf. 2 Sales code: **107B0504**

**Optimization + standard conditions**

R452A, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC, EAC

| Evaporating pressure (saturation temperature) |      |      |      |      | Condensing pressure (saturation temperature) |          |        |          |           |      | Power consumption   |        |                     | ASHRAE<br>MBP  |
|---|------|------|------|------|--|----------|--------|----------|-----------|------|---------------------|--------|---------------------|----------------|
| Return gas temp.                              |      |      |      |      | Liquid temp.                                 |          |        |          |           |      | Current consumption |        | Ref. mass flow<br>m |                |
| Cooling capacity                              |      |      |      |      | COP  |          | EER    |          | P1        | I    |                     |        |                     |                |
| pe  | pc   | RGT  | Tliq | [W]  | [Btu/h]                                      | [kcal/h] | [W/W]  | [Btu/Wh] | [kcal/Wh] | [W]  | [A]                 | [kg/h] |                     |                |
| [°C]  | -6,7 | 54,4 | 35   | 46,1 | 3424,6                                       | 11695    | 2947,2 | 1,85     | 6,31      | 1,59 | 1852,9              | 9,91   | 96,34               | ASHRAE<br>MBP  |
| [°F]  | 20   | 130  | 95   | 115  |  |          |        |          |           |      |                     |        |                     |                |
| [°C]  | -10  | 55   | 32   | 55   | 2568,4                                       | 8771     | 2210,4 | 1,48     | 5,05      | 1,27 | 1737,7              | 9,47   | 83,48               | cecomaf<br>MBP |
| [°F]  | 14   | 131  | 89,6 | 131  |  |          |        |          |           |      |                     |        |                     |                |
| [°C]  | -10  | 45   | 20   | 45   | 2954,3                                       | 10089    | 2542,5 | 1,82     | 6,20      | 1,56 | 1626,7              | 9,05   | 90,77               | EN12900<br>MBP |
| [°F]  | 14   | 113  | 68   | 113  |  |          |        |          |           |      |                     |        |                     |                |
| [°C]  | -6,7 | 48,9 | 18,3 | 48,9 | 3105,5                                       | 10606    | 2672,6 | 1,74     | 5,96      | 1,50 | 1780,4              | 9,63   | 103,02              | ARI540<br>MBP  |
| [°F]  | 20   | 120  | 65   | 120  |  |          |        |          |           |      |                     |        |                     |                |
| [°C]  | -10  | 45   | 32   | 45   | 3133,4                                       | 10701    | 2696,6 | 1,93     | 6,58      | 1,66 | 1626,7              | 9,05   | 88,29               | opt            |
| [°F]  | 14   | 113  | 89,6 | 113  |  |          |        |          |           |      |                     |        |                     |                |
| [°C]  | -25  | 45   | 32   | 45   | 1546,5                                       | 5282     | 1330,9 | 1,32     | 4,52      | 1,14 | 1169,0              | 7,31   | 42,78               | opt            |
| [°F]  | -13  | 113  | 89,6 | 113  |  |          |        |          |           |      |                     |        |                     |                |

**Performance tables**

R452A, 220V/50Hz, CSCR, fan 3m/s, VDE, CCC, EAC

|                  | 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]        | -20  | -4   | 2003,6           | 6843    | 1724,4   | 1,51  | 5,17     | 1,30      | 1322,7 | 7,89  | 55,71  |   |
| cond. pressure   | -15  | 5    | 2527,7           | 8633    | 2175,4   | 1,72  | 5,86     | 1,48      | 1473,9 | 8,47  | 70,71  |   |
| pc= 45/113       | -10  | 14   | 3133,4           | 10701   | 2696,6   | 1,93  | 6,58     | 1,66      | 1626,7 | 9,05  | 88,29  |   |
| return gas temp. | -6,7 | 20   | 3585,3           | 12244   | 3085,5   | 2,07  | 7,07     | 1,78      | 1730,7 | 9,45  | 101,57 |   |
| RGT= 32/90       | -5   | 23   | 3836,0           | 13101   | 3301,3   | 2,15  | 7,34     | 1,85      | 1785,7 | 9,65  | 109,00 |   |
| liquid temp      | 0    | 32   | 4651,8           | 15887   | 4003,4   | 2,38  | 8,13     | 2,05      | 1955,1 | 10,30 | 133,51 |   |
| Tliq= 45/113     | 7,2  | 45   | 6061,6           | 20701   | 5216,6   | 2,72  | 9,30     | 2,34      | 2226,1 | 11,33 | 177,08 |   |
| [°C / °F]        | -20  | -4   | 1614,7           | 5514    | 1389,6   | 1,17  | 4,01     | 1,01      | 1374,7 | 8,09  | 51,68  |   |
| cond. pressure   | -15  | 5    | 2058,5           | 7030    | 1771,5   | 1,32  | 4,52     | 1,14      | 1556,5 | 8,78  | 66,35  |   |
| pc= 55/131       | -10  | 14   | 2568,4           | 8771    | 2210,4   | 1,48  | 5,05     | 1,27      | 1737,7 | 9,47  | 83,48  |   |
| return gas temp  | -6,7 | 20   | 2948,7           | 10070   | 2537,6   | 1,59  | 5,42     | 1,37      | 1859,0 | 9,93  | 96,44  |   |
| RGT= 32/90       | -5   | 23   | 3160,0           | 10792   | 2719,5   | 1,64  | 5,61     | 1,41      | 1922,5 | 10,17 | 103,71 |   |
| liquid temp      | 0    | 32   | 3849,8           | 13148   | 3313,2   | 1,82  | 6,22     | 1,57      | 2115,4 | 10,91 | 127,83 |   |
| Tliq= 55/131     | 7,2  | 45   | 5052,7           | 17256   | 4348,4   | 2,09  | 7,14     | 1,80      | 2415,9 | 12,05 | 171,25 |   |

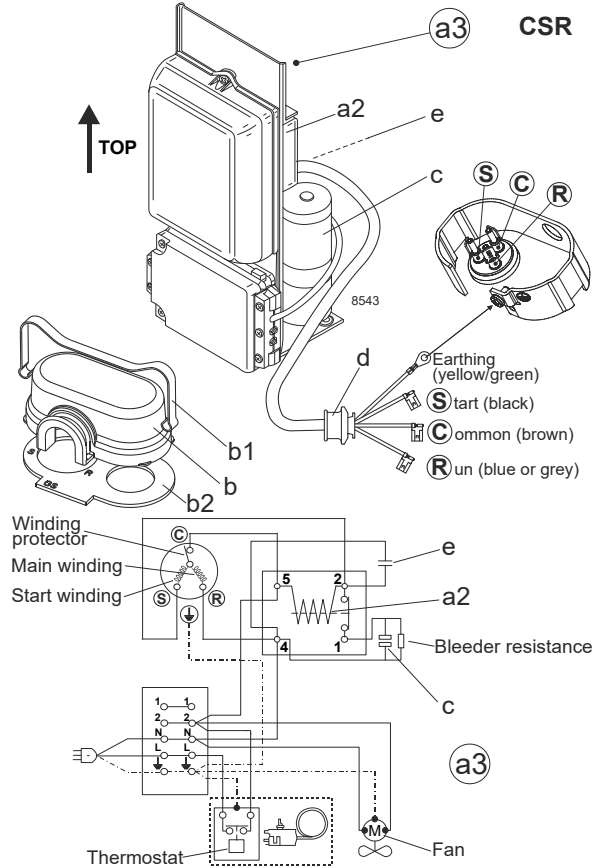
## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz</b> | <b>Conf. 3</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | CSCR             |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R448A            |
| Application            | MBP              |
| Voltage range          | 198-254V         |
| Starting torque        | HST              |
| Approvals              |                  |

## Electrical accessories / wiring diagram

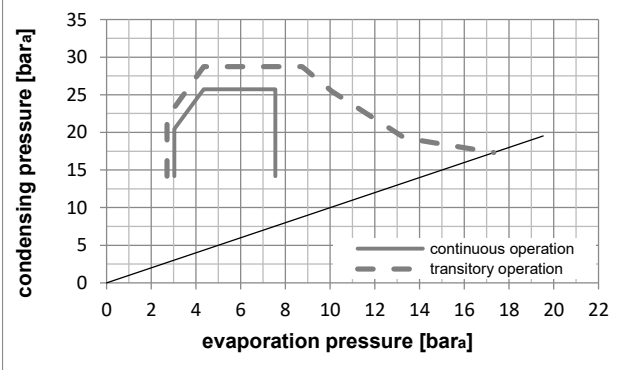
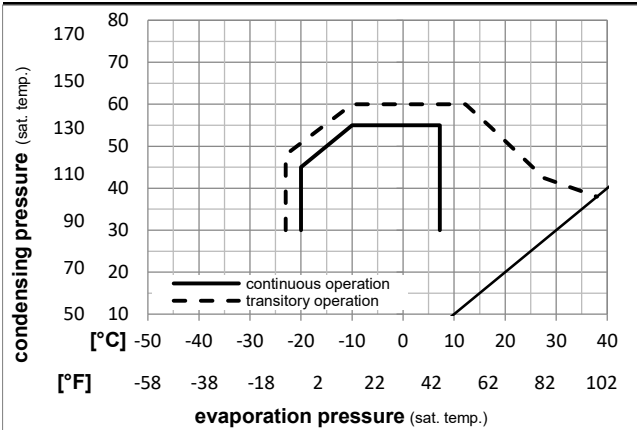


## Ambient temperatures / system cooling

|                           |              |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F  |
| Ambient temperature max.: | 38°C / 101°F |

| System cooling (n/a: outside limits) |     |          |     |
|--------------------------------------|-----|----------|-----|
| T ambient                            | LBP | MBP      | HBP |
| 32°C / 90°F                          | n/a | fan 3m/s | n/a |
| 38°C / 100°F                         | n/a | fan 3m/s | n/a |
| 43°C / 110°F                         | n/a | n/a      | n/a |

## Operation pressure range



## Components (cover, clamp, gasket: pre assembled)

|    |                        |          |
|----|------------------------|----------|
| a3 | GS starter kit (600mm) | 117-7056 |
| b  | cover                  | 107B9101 |
| b2 | gasket                 | 107B9100 |
| b1 | clamp                  | 107B9104 |

**Model**

Designation **GS34MLX 220-240V/50Hz** Conf. 3 Sales code: **107B0504**

**Optimization + standard conditions**

R448A, 220V/50Hz, CSCR, fan 3m/s,

| Evaporating pressure (saturation temperature) |      | Condensing pressure (saturation temperature) |      |        |         | Return gas temp. |       | Liquid temp. |           | Cooling capacity |      |        | COP            | EER | Power consumption |  | Ref. mass flow<br>m | ASHRAE<br>MBP |
|---|------|--|------|--------|---------|------------------|-------|--------------|-----------|------------------|------|--------|----------------|-----|-------------------|--|---------------------|---------------|
| pe  | pc   | RGT  | Tliq | [W]    | [Btu/h] | [kcal/h]         | [W/W] | [Btu/Wh]     | [kcal/Wh] | P1               | I    | [kg/h] |                |     |                   |  |                     |               |
| [°C]  | [°F] | [°C]   | [°F] | [°C]   | [°F]    | [°C]             | [°F]  | [°C]         | [°F]      | [W]              | [A]  | [kg/h] |                |     |                   |  |                     |               |
| -6,66   | 54,4 | 35   | 46,1 | 3217,4 | 10988   | 2768,9           | 1,83  | 6,24         | 1,57      | 1760,2           | 9,56 | 70,28  | ASHRAE<br>MBP  |     |                   |  |                     |               |
| 20  | 130  | 95   | 115  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |
| -10   | 55   | 32   | 55   | 2473,2 | 8446    | 2128,4           | 1,50  | 5,13         | 1,29      | 1646,0           | 9,12 | 60,57  | cecomaf<br>MBP |     |                   |  |                     |               |
| 14  | 131  | 89,6   | 131  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |
| -10   | 45   | 20   | 45   | 2832,1 | 9672    | 2437,3           | 1,84  | 6,28         | 1,58      | 1539,8           | 8,72 | 66,25  | EN12900<br>MBP |     |                   |  |                     |               |
| 14  | 113  | 68   | 113  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |
| -6,66   | 48,9 | 18,3   | 48,9 | 3030,2 | 10349   | 2607,9           | 1,79  | 6,12         | 1,54      | 1690,3           | 9,29 | 75,36  | ARI540<br>MBP  |     |                   |  |                     |               |
| 20  | 120  | 65   | 120  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |
| -10   | 45   | 32   | 45   | 2949,7 | 10074   | 2538,5           | 1,92  | 6,54         | 1,65      | 1539,8           | 8,72 | 64,45  | opt            |     |                   |  |                     |               |
| 14  | 113  | 89,6   | 113  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |
| -25   | 45   | 32   | 45   | 1415,2 | 4833    | 1217,9           | 1,30  | 4,43         | 1,12      | 1090,2           | 7,01 | 30,43  | opt            |     |                   |  |                     |               |
| -13   | 113  | 89,6   | 113  |        |         |                  |       |              |           |                  |      |        |                |     |                   |  |                     |               |

**Performance tables**

R448A, 220V/50Hz, CSCR, fan 3m/s,

| 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]        | -20              | -4   | 1853,1 | 6329    | 1594,8   | 1,49  | 5,10     | 1,29      | 1240,9 | 7,58  | 40,03  |
| cond. pressure   | -15              | 5    | 2359,5 | 8058    | 2030,6   | 1,70  | 5,80     | 1,46      | 1389,4 | 8,15  | 51,24  |
| pc= 45/113       | -10              | 14   | 2949,7 | 10074   | 2538,5   | 1,92  | 6,54     | 1,65      | 1539,8 | 8,72  | 64,45  |
| return gas temp. | -6,7             | 20   | 3392,6 | 11586   | 2919,7   | 2,07  | 7,06     | 1,78      | 1642,1 | 9,11  | 74,48  |
| RGT= 32/90       | -5               | 23   | 3639,1 | 12428   | 3131,9   | 2,15  | 7,33     | 1,85      | 1696,3 | 9,31  | 80,11  |
| liquid temp      | 0                | 32   | 4444,3 | 15178   | 3824,8   | 2,39  | 8,15     | 2,05      | 1863,0 | 9,95  | 98,70  |
| Tliq= 45/113     | 7,2              | 45   | 5842,9 | 19954   | 5028,4   | 2,74  | 9,37     | 2,36      | 2129,5 | 10,96 | 131,79 |
| [°C / °F]        | -20              | -4   | 1524,4 | 5206    | 1311,9   | 1,18  | 4,04     | 1,02      | 1289,1 | 7,77  | 36,86  |
| cond. pressure   | -15              | 5    | 1963,6 | 6706    | 1689,9   | 1,34  | 4,57     | 1,15      | 1467,4 | 8,44  | 47,75  |
| pc= 55/131       | -10              | 14   | 2473,2 | 8446    | 2128,4   | 1,50  | 5,13     | 1,29      | 1646,0 | 9,12  | 60,57  |
| return gas temp  | -6,7             | 20   | 2855,7 | 9753    | 2457,6   | 1,62  | 5,52     | 1,39      | 1766,0 | 9,58  | 70,31  |
| RGT= 32/90       | -5               | 23   | 3068,9 | 10481   | 2641,2   | 1,68  | 5,73     | 1,44      | 1828,9 | 9,82  | 75,79  |
| liquid temp      | 0                | 32   | 3767,5 | 12867   | 3242,3   | 1,86  | 6,37     | 1,60      | 2020,4 | 10,55 | 93,96  |
| Tliq= 55/131     | 7,2              | 45   | 4990,2 | 17042   | 4294,6   | 2,15  | 7,35     | 1,85      | 2319,6 | 11,68 | 126,65 |



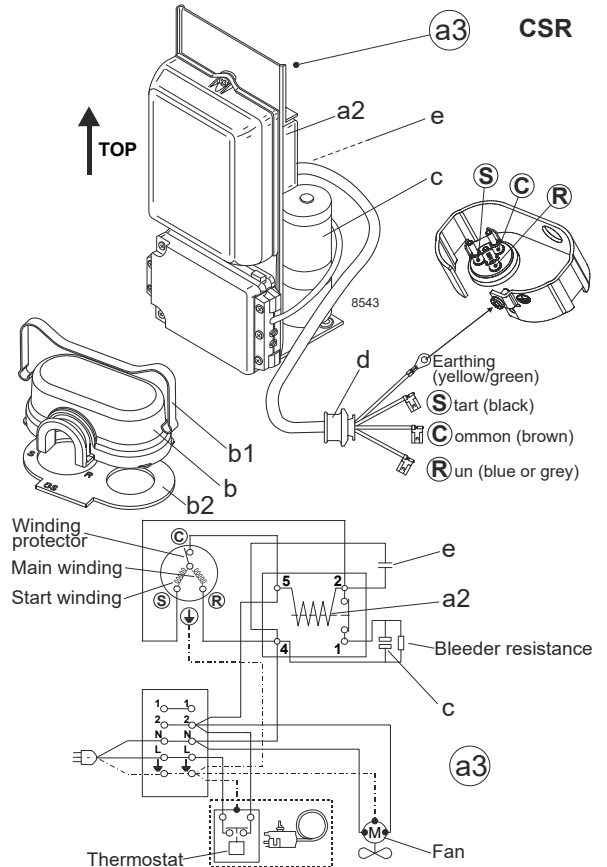
**Model**

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>GS34MLX</b> | <b>220-240V/50Hz</b> | <b>Conf. 4</b> | Sales code: | <b>107B0504</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

**Configuration**

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | CSCR             |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R449A            |
| Application            | MBP              |
| Voltage range          | 198-254V         |
| Starting torque        | HST              |
| Approvals              |                  |

**Electrical accessories / wiring diagram**

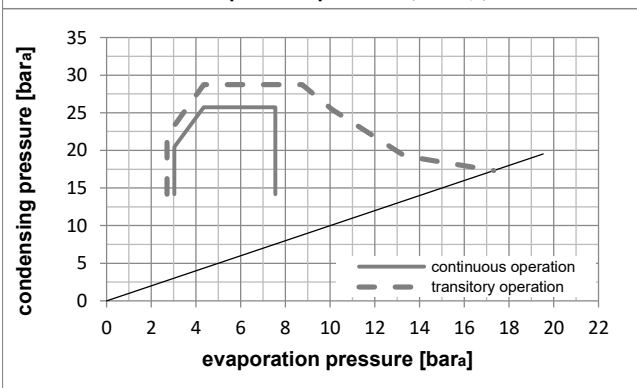
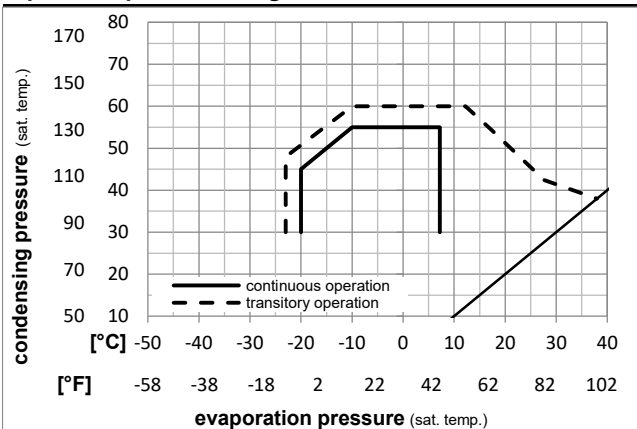


**Ambient temperatures / system cooling**

|                           |              |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F  |
| Ambient temperature max.: | 38°C / 101°F |

| System cooling (n/a: outside limits) |     |          |     |
|--------------------------------------|-----|----------|-----|
| T ambient                            | LBP | MBP      | HBP |
| 32°C / 90°F                          | n/a | fan 3m/s | n/a |
| 38°C / 100°F                         | n/a | fan 3m/s | n/a |
| 43°C / 110°F                         | n/a | n/a      | n/a |

**Operation pressure range**



**Components (cover, clamp, gasket: pre assembled)**

|    |                        |          |
|----|------------------------|----------|
| a3 | GS starter kit (600mm) | 117-7056 |
| b  | cover                  | 107B9101 |
| b2 | gasket                 | 107B9100 |
| b1 | clamp                  | 107B9104 |

**Model**

Designation **GS34MLX 220-240V/50Hz** Conf. 4 Sales code: **107B0504**

**Optimization + standard conditions**

R449A, 220V/50Hz, CSCR, fan 3m/s,

|      |       | Evaporating pressure (saturation temperature) |      |      |        | Condensing pressure (saturation temperature) |         |          |       |          | Power consumption   |      |       |                |  |
|------|-------|---|------|------|--------|--|---------|----------|-------|----------|---------------------|------|-------|----------------|--|
|      |       | Return gas temp.                              |      |      |        | Liquid temp.                                 |         |          |       |          | Current consumption |      |       | Ref. mass flow |  |
|      |       | Cooling capacity                              |      |      |        | COP  |         | EER      |       | P1       | I                   | m    |       |                |  |
|      |       | pe  | pc   | RGT  | Tliq   | [W]  | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh]           | [W]  | [A]   | [kg/h]         |  |
| [°C] | -6,66 | 54,4  | 35   | 46,1 | 3205,3 | 10947  | 2758,5  | 1,83     | 6,26  | 1,58     | 1749,7              | 9,52 | 71,40 | ASHRAE<br>MBP  |  |
| [°F] | 20    | 130   | 95   | 115  |        |  |         |          |       |          |                     |      |       |                |  |
| [°C] | -10   | 55  | 32   | 55   | 2460,8 | 8404   | 2117,8  | 1,50     | 5,13  | 1,29     | 1637,1              | 9,09 | 61,55 | cecomaf<br>MBP |  |
| [°F] | 14    | 131   | 89,6 | 131  |        |  |         |          |       |          |                     |      |       |                |  |
| [°C] | -10   | 45  | 20   | 45   | 2817,1 | 9621   | 2424,4  | 1,84     | 6,28  | 1,58     | 1532,5              | 8,69 | 67,28 | EN12900<br>MBP |  |
| [°F] | 14    | 113   | 68   | 113  |        |  |         |          |       |          |                     |      |       |                |  |
| [°C] | -6,66 | 48,9  | 18,3 | 48,9 | 3012,0 | 10286  | 2592,1  | 1,79     | 6,12  | 1,54     | 1681,0              | 9,26 | 76,55 | ARI540<br>MBP  |  |
| [°F] | 20    | 120   | 65   | 120  |        |  |         |          |       |          |                     |      |       |                |  |
| [°C] | -10   | 45  | 32   | 45   | 2937,2 | 10031  | 2527,8  | 1,92     | 6,55  | 1,65     | 1532,5              | 8,69 | 65,45 | opt            |  |
| [°F] | 14    | 113   | 89,6 | 113  |        |  |         |          |       |          |                     |      |       |                |  |
| [°C] | -25   | 45  | 32   | 45   | 1411,4 | 4820   | 1214,7  | 1,30     | 4,43  | 1,12     | 1086,9              | 7,00 | 30,95 | opt            |  |
| [°F] | -13   | 113   | 89,6 | 113  |        |  |         |          |       |          |                     |      |       |                |  |

**Performance tables**

R449A, 220V/50Hz, CSCR, fan 3m/s,

|                  |      | 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]        | -20  | -4   | 1847,0           | 6308  | 1589,5  | 1,49     | 5,10  | 1,29     | 1236,4    | 7,57  | 40,68  |        |
| cond. pressure   | -15  | 5    | 2350,5           | 8027  | 2022,9  | 1,70     | 5,80  | 1,46     | 1383,6    | 8,13  | 52,05  |        |
| pc= 45/113       | -10  | 14   | 2937,2           | 10031 | 2527,8  | 1,92     | 6,55  | 1,65     | 1532,5    | 8,69  | 65,45  |        |
| return gas temp. | -6,7 | 20   | 3377,6           | 11535 | 2906,8  | 2,07     | 7,06  | 1,78     | 1633,7    | 9,08  | 75,63  |        |
| RGT= 32/90       | -5   | 23   | 3622,7           | 12372 | 3117,7  | 2,15     | 7,33  | 1,85     | 1687,2    | 9,28  | 81,34  |        |
| liquid temp      | 0    | 32   | 4423,2           | 15106 | 3806,6  | 2,39     | 8,16  | 2,06     | 1851,6    | 9,90  | 100,20 |        |
| Tliq= 45/113     | 7,2  | 45   | 5813,5           | 19854 | 5003,1  | 2,75     | 9,39  | 2,37     | 2113,6    | 10,90 | 133,78 |        |
| [°C / °F]        | -20  | -4   | 1518,2           | 5185  | 1306,6  | 1,18     | 4,04  | 1,02     | 1284,2    | 7,75  | 37,48  |        |
| cond. pressure   | -15  | 5    | 1954,6           | 6675  | 1682,1  | 1,34     | 4,57  | 1,15     | 1460,7    | 8,42  | 48,54  |        |
| pc= 55/131       | -10  | 14   | 2460,8           | 8404  | 2117,8  | 1,50     | 5,13  | 1,29     | 1637,1    | 9,09  | 61,55  |        |
| return gas temp  | -6,7 | 20   | 2840,9           | 9702  | 2444,9  | 1,62     | 5,53  | 1,39     | 1755,4    | 9,54  | 71,44  |        |
| RGT= 32/90       | -5   | 23   | 3052,7           | 10426 | 2627,2  | 1,68     | 5,74  | 1,45     | 1817,4    | 9,77  | 77,00  |        |
| liquid temp      | 0    | 32   | 3746,8           | 12796 | 3224,6  | 1,87     | 6,38  | 1,61     | 2005,6    | 10,49 | 95,45  |        |
| Tliq= 55/131     | 7,2  | 45   | 4961,8           | 16946 | 4270,2  | 2,16     | 7,37  | 1,86     | 2298,8    | 11,60 | 128,66 |        |