

## Model

|             |                   |                                          |             |                 |
|-------------|-------------------|------------------------------------------|-------------|-----------------|
| Designation | <b>KLE8.6GFTX</b> | <b>220-240V/50Hz 1~ 208-230V/60Hz 1~</b> | Sales code: | <b>106G5913</b> |
|-------------|-------------------|------------------------------------------|-------------|-----------------|

## Compressor design

|                            |                                                                                                  |                       |                     |
|----------------------------|--------------------------------------------------------------------------------------------------|-----------------------|---------------------|
| Oil type                   | Polyolester                                                                                      | Refrigerant(s)        | <b>R134a, R513A</b> |
| Oil viscosity              | 19,2cSt                                                                                          | Displacement          | 8,6cm³ / 0,52cu.in  |
| Oil quantity               | 240cm³ / 8,1fl.oz                                                                                | Compressors on pallet | 100                 |
| Refr. charge - tech. limit | 250g / 8,8oz                                                                                     |                       |                     |
| Free gas volume comp.      | 1495cm³ / 50,6fl.oz                                                                              |                       |                     |
| Weight                     | 9,7kg / 21,4lbs                                                                                  |                       |                     |
| Motor protection           | external                                                                                         |                       |                     |
| Winding resistance main    | 8,4Ω (at 25°C)                                                                                   |                       |                     |
| Winding resistance aux     | 11,9Ω (at 25°C)                                                                                  |                       |                     |
| Max. winding temp.         | 125°C / 257°F                                                                                    |                       |                     |
| Max. discharge temp.       | 130°C / 266°F                                                                                    |                       |                     |
| Additional note            | Good robustness against liquid intake.<br>Ice-cube maker optimization - indirect suction intake. |                       |                     |



## General - Configurations with KLE8.6GFTX

|                        | <b>Conf. 1</b>                                                    | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|------------------------|-------------------------------------------------------------------|----------------|----------------|----------------|
| Motor configuration    | CSIR                                                              | CSIR           | CSIR           | CSIR           |
| Power supply (nominal) | 220-240V/50Hz                                                     | 208-230V/60Hz  | 220-240V/50Hz  | 208-230V/60Hz  |
| Number of phases       | 1                                                                 | 1              | 1              | 1              |
| Voltage range          | 187-254V                                                          | 198-253V       | 187-254V       | 198-253V       |
| Approvals              | VDE, CB, UL                                                       | VDE, CB, UL    | VDE, CB, UL    | VDE, CB, UL    |
| Starting torque        | HST                                                               | HST            | HST            | HST            |
| Note                   | Electrical equipment is included and pre-assembled to compressor. |                |                |                |

## Applications with KLE8.6GFTX

|                         | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|-------------------------|----------------|----------------|----------------|----------------|
| Refrigerant             | R134a          | R134a          | R513A          | R513A          |
| Application             | LBP+MBP+HBP    | LBP+MBP        | LBP+MBP+HBP    | LBP+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 KLE8.6GFTX

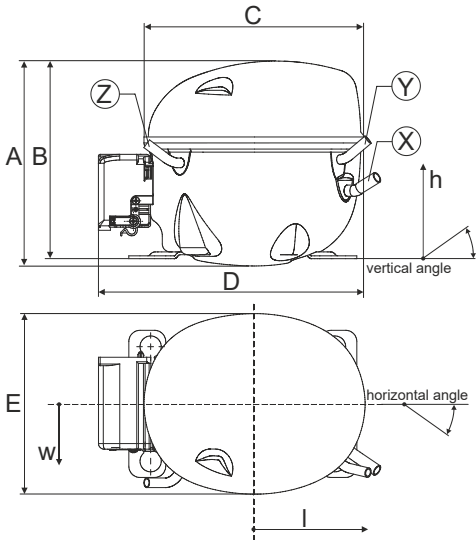
|                                    | <b>Conf. 1</b> | <b>Conf. 2</b> | <b>Conf. 3</b> | <b>Conf. 4</b> |
|------------------------------------|----------------|----------------|----------------|----------------|
| Starting device type               | relay          | relay          | relay          | relay          |
| Run capacitor                      | -/-            | -/-            | -/-            | -/-            |
| Start capacitor                    | 80μF           | 80μF           | 80μF           | 80μF           |
| LRA (locked rotor amps / 4s/ U(N)) | 13,4A          | 13,2A          | 13,4A          | 13,2A          |
| RLA (rated load amps / 1s/ U(N))   | 1,8A           | 2A             | 1,8A           | 2A             |
| Cut in current (U(N))              | 12,3A          | 12,3A          | 12,3A          | 12,3A          |

|             |            |                                   |                      |
|-------------|------------|-----------------------------------|----------------------|
| Model       |            |                                   |                      |
| Designation | KLE8.6GFTX | 220-240V/50Hz 1~ 208-230V/60Hz 1~ | Sales code: 106G5913 |

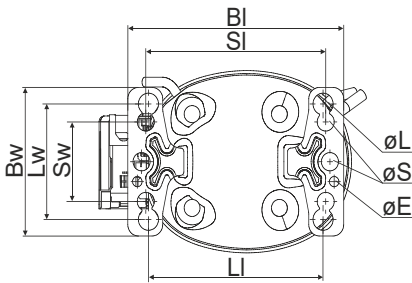
Compressor dimensions

|         |                   |                |
|---------|-------------------|----------------|
| Housing | A Height          | 182mm / 7,17in |
|         | B Height          | 175mm / 6,89in |
|         | C Length shell    | 198mm / 7,8in  |
|         | D Length w. cover | 238mm / 9,37in |
|         | E Width           | 160mm / 6,3in  |

| Connectors       |      | Suction<br>X | Discharge<br>Y | Process<br>Z |
|------------------|------|--------------|----------------|--------------|
| Diameter         | [mm] | øi 8,11-8,29 | øi 6,11-6,29   | øi 6,11-6,29 |
|                  | [in] | øi 0,32-0,33 | øi 0,24-0,25   | øi 0,24-0,25 |
| Material         |      | copper       | copper         | copper       |
| Horizontal angle | ±2°  | 35°          | 13°            | 0°           |
| Vertical angle   | ±2°  | 30°          | 40°            | 145°         |
| Position l/h/w   | [mm] | 119/73/59    | 117/107/66     | -88/101/71   |
|                  | [in] | 4,7/2,9/2,3  | 4,6/4,2/2,6    | -3,5/4/2,8   |
| Straight tube l. | [mm] | 14           | 14             | 14           |
|                  | [in] | 0,5          | 0,5            | 0,5          |

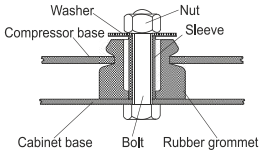


Compressor fixation

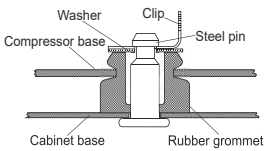


| Baseplate   | [mm]  | [inch] |
|-------------|-------|--------|
| BI          | 204   | 8.03   |
| Bw          | 132   | 5.2    |
| øE          | ø 9.7 | ø 0.38 |
| Large holes | [mm]  | [inch] |
| LI          | 165   | 6.5    |
| Lw          | 101.6 | 4      |
| øL          | ø 19  | ø 0.75 |
| Small holes | [mm]  | [inch] |
| SI          | 170   | 6.7    |
| Sw          | 70    | 2.76   |
| øS          | ø 16  | ø 0.63 |

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   |

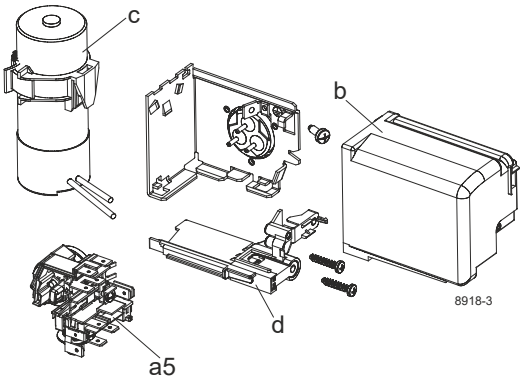
Application notes

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

Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)

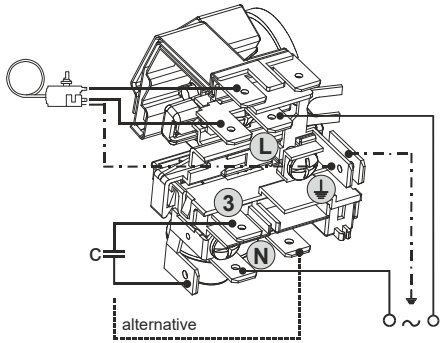
|             |            |               |         |             |          |
|-------------|------------|---------------|---------|-------------|----------|
| Model       |            |               |         |             |          |
| Designation | KLE8.6GFTX | 220-240V/50Hz | Conf. 1 | Sales code: | 106G5913 |

| Configuration          |                  | Electrical accessories / wiring diagram |  |  |  |
|------------------------|------------------|-----------------------------------------|--|--|--|
| Motor configuration    | CSIR             | CSIR                                    |  |  |  |
| Power supply (nominal) | 220-240V/50Hz 1~ |                                         |  |  |  |
| Refrigerant            | R134a            |                                         |  |  |  |
| Application            | LBP+MBP+HBP      |                                         |  |  |  |
| Voltage range          | 187-254V         |                                         |  |  |  |
| Starting torque        | HST              |                                         |  |  |  |
| Approvals              | VDE              |                                         |  |  |  |
|                        | CB               |                                         |  |  |  |
|                        | UL               |                                         |  |  |  |

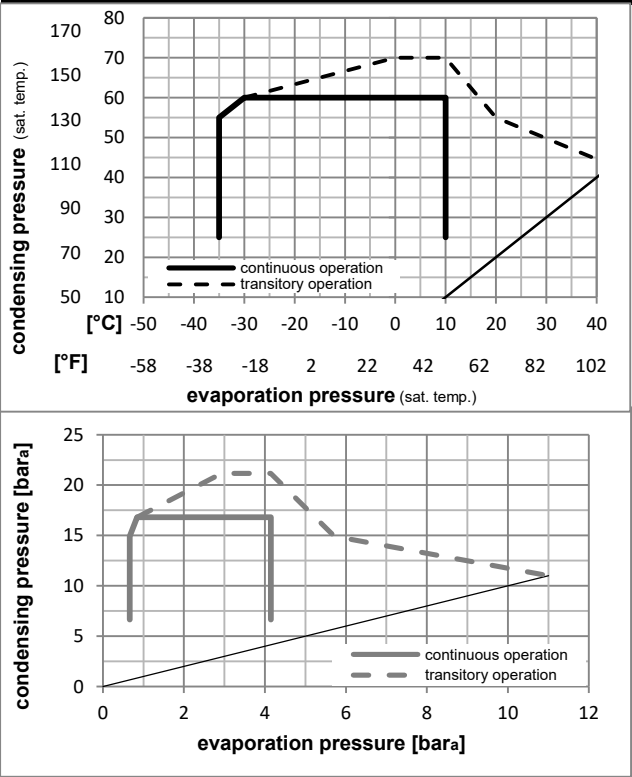


Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| 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 pressure range



| Components (incl. and pre. assembl.) |                                    |          |
|--------------------------------------|------------------------------------|----------|
| a5                                   | current relay (T0377/L6-S1)        | 117U7071 |
| c                                    | start capacitor (80µF, 6.3mm)      | 117U5001 |
| b, d                                 | cover + clamp + screws(5VA-compl.) | 103N0600 |

Alternative comp.

|      |                                    |          |
|------|------------------------------------|----------|
| b, d | 100x cover + clamp + screws(5VA)   | 103N2060 |
| b, d | cover + clamp + screws(5VA) in bag | 103N1060 |

## Model

Designation **KLE8.6GFTX** **220-240V/50Hz** Conf. 1 Sales code: **106G5913**

## Optimization + standard conditions

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

| Evaporating pressure (saturation temperature) |     |     |      |     | Condensing pressure (saturation temperature) |          |       |          |           |      | Power consumption   |        |                |             |
|-----------------------------------------------|-----|-----|------|-----|----------------------------------------------|----------|-------|----------|-----------|------|---------------------|--------|----------------|-------------|
| Return gas temp.                              |     |     |      |     | Liquid temp.                                 |          |       |          |           |      | Current consumption |        |                |             |
| Cooling capacity                              |     |     |      |     | COP                                          |          | EER   |          | P1        |      | I                   |        | Ref. mass flow |             |
| pe                                            | pc  | RGT | Tliq | [W] | [Btu/h]                                      | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]  | [A]                 | [kg/h] |                |             |
| [°C]                                          | -23 | 54  | 32   | 32  | 248,1                                        | 847      | 213,5 | 1,33     | 4,53      | 1,14 | 186,9               | 1,41   | 4,82           | ASHRAE LBP  |
| [°F]                                          | -10 | 130 | 90   | 90  |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |     |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -7  | 54  | 35   | 46  | 517,3                                        | 1767     | 445,2 | 1,78     | 6,08      | 1,53 | 290,4               | 1,82   | 11,29          | ASHRAE MBP  |
| [°F]                                          | 20  | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |     |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 7,2 | 54  | 35   | 46  | 901,6                                        | 3079     | 775,9 | 2,31     | 7,90      | 1,99 | 389,6               | 2,27   | 20,00          | ASHRAE HBP  |
| [°F]                                          | 45  | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |     |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -35 | 40  | 20   | 40  | 131,2                                        | 448      | 112,9 | 1,04     | 3,56      | 0,90 | 125,9               | 1,23   | 2,88           | EN12900 LBP |
| [°F]                                          | -31 | 104 | 68   | 104 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |     |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -10 | 45  | 20   | 45  | 450,8                                        | 1540     | 388,0 | 1,81     | 6,17      | 1,56 | 249,4               | 1,65   | 10,55          | EN12900 MBP |
| [°F]                                          | 14  | 113 | 68   | 113 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |     |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 5   | 50  | 20   | 50  | 773,5                                        | 2642     | 665,7 | 2,19     | 7,47      | 1,88 | 353,9               | 2,10   | 19,49          | EN12900 HBP |
| [°F]                                          | 41  | 122 | 68   | 122 |                                              |          |       |          |           |      |                     |        |                |             |

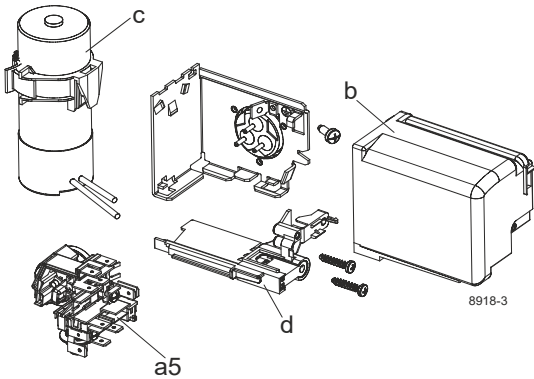
## Performance tables

R134a, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, 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]        | -35  | -31  | 123,6            | 422     | 106,4    | 0,98  | 3,35     | 0,84      | 126,0 | 1,23 | 2,67   |
| cond. pressure   | -25  | -13  | 216,6            | 740     | 186,4    | 1,25  | 4,28     | 1,08      | 172,9 | 1,37 | 4,69   |
| pc= 45/113       | -15  | 5    | 368,2            | 1257    | 316,9    | 1,65  | 5,63     | 1,42      | 223,3 | 1,55 | 8,03   |
| return gas temp. | -10  | 14   | 467,7            | 1597    | 402,5    | 1,87  | 6,40     | 1,61      | 249,4 | 1,65 | 10,24  |
| RGT= 32/90       | 0    | 32   | 717,8            | 2452    | 617,8    | 2,37  | 8,09     | 2,04      | 303,1 | 1,87 | 15,87  |
| liquid temp      | 5    | 41   | 869,9            | 2971    | 748,6    | 2,63  | 8,99     | 2,27      | 330,4 | 1,99 | 19,37  |
| Tliq= 45/113     | 10   | 50   | 1040,8           | 3555    | 895,8    | 2,91  | 9,94     | 2,50      | 357,6 | 2,12 | 23,36  |
| [°C / °F]        | -35  | -31  | 96,4             | 329     | 83,0     | 0,76  | 2,58     | 0,65      | 127,6 | 1,24 | 2,30   |
| cond. pressure   | -25  | -13  | 181,7            | 621     | 156,4    | 1,02  | 3,48     | 0,88      | 178,1 | 1,38 | 4,35   |
| pc= 55/131       | -15  | 5    | 315,1            | 1076    | 271,2    | 1,33  | 4,54     | 1,14      | 237,0 | 1,60 | 7,59   |
| return gas temp  | -10  | 14   | 401,6            | 1372    | 345,7    | 1,49  | 5,09     | 1,28      | 269,2 | 1,73 | 9,71   |
| RGT= 32/90       | 0    | 32   | 618,0            | 2110    | 531,8    | 1,83  | 6,23     | 1,57      | 338,6 | 2,03 | 15,12  |
| liquid temp      | 5    | 41   | 749,2            | 2559    | 644,7    | 2,00  | 6,81     | 1,72      | 375,4 | 2,20 | 18,46  |
| Tliq= 55/131     | 10   | 50   | 896,7            | 3062    | 771,7    | 2,17  | 7,41     | 1,87      | 413,6 | 2,38 | 22,29  |

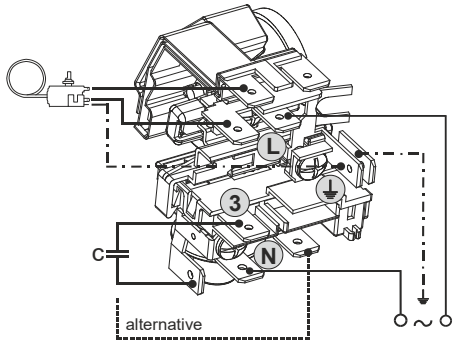
|             |            |               |         |             |          |
|-------------|------------|---------------|---------|-------------|----------|
| Model       |            |               |         |             |          |
| Designation | KLE8.6GFTX | 208-230V/60Hz | Conf. 2 | Sales code: | 106G5913 |

| Configuration          | Electrical accessories / wiring diagram |  |  |  |      |
|------------------------|-----------------------------------------|--|--|--|------|
| Motor configuration    | CSIR                                    |  |  |  | CSIR |
| Power supply (nominal) | 208-230V/60Hz 1~                        |  |  |  |      |
| Refrigerant            | R134a                                   |  |  |  |      |
| Application            | LBP+MBP                                 |  |  |  |      |
| Voltage range          | 198-253V                                |  |  |  |      |
| Starting torque        | HST                                     |  |  |  |      |
| Approvals              | VDE                                     |  |  |  |      |
|                        | CB                                      |  |  |  |      |
|                        | UL                                      |  |  |  |      |

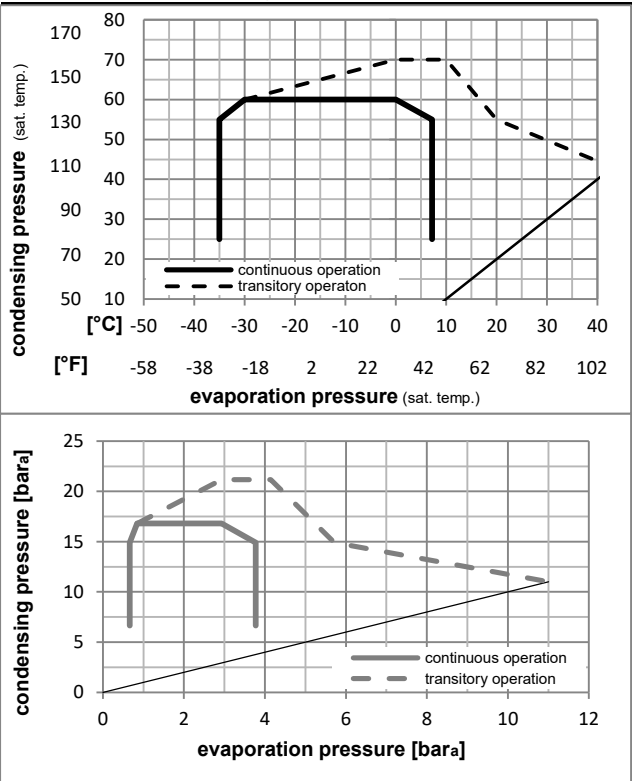


Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| 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 pressure range



Components (incl. and pre. assembl.)

|      |                                    |          |
|------|------------------------------------|----------|
| a5   | current relay (T0377/L6-S1)        | 117U7071 |
| c    | start capacitor (80µF, 6.3mm)      | 117U5001 |
| b, d | cover + clamp + screws(5VA-compl.) | 103N0600 |

Alternative comp.

|      |                                    |          |
|------|------------------------------------|----------|
| b, d | 100x cover + clamp + screws(5VA)   | 103N2060 |
| b, d | cover + clamp + screws(5VA) in bag | 103N1060 |

## Model

Designation **KLE8.6GFTX** **208-230V/60Hz** Conf. 2 Sales code: **106G5913**

## Optimization + standard conditions

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

| Evaporating pressure (saturation temperature) |      |     |      |     | Condensing pressure (saturation temperature) |          |       |          |           |      | Power consumption   |        |                |             |
|-----------------------------------------------|------|-----|------|-----|----------------------------------------------|----------|-------|----------|-----------|------|---------------------|--------|----------------|-------------|
| Return gas temp.                              |      |     |      |     | Liquid temp.                                 |          |       |          |           |      | Current consumption |        |                |             |
| Cooling capacity                              |      |     |      |     | COP                                          |          | EER   |          | P1        |      | I                   |        | Ref. mass flow |             |
| pe                                            | pc   | RGT | Tliq | [W] | [Btu/h]                                      | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]  | [A]                 | ṁ      |                |             |
| [°C]                                          | [°C] |     |      |     |                                              |          |       |          |           |      |                     | [kg/h] |                |             |
| [°C]                                          | -23  | 54  | 32   | 32  | 299,2                                        | 1022     | 257,5 | 1,35     | 4,60      | 1,16 | 222,1               | 1,41   | 5,81           | ASHRAE LBP  |
| [°F]                                          | -10  | 130 | 90   | 90  |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -7   | 54  | 35   | 46  | 617,4                                        | 2109     | 531,4 | 1,78     | 6,07      | 1,53 | 347,4               | 1,86   | 13,47          | ASHRAE MBP  |
| [°F]                                          | 20   | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 7,2  | 54  | 35   | 46  | 1076,9                                       | 3678     | 926,8 | 2,31     | 7,90      | 1,99 | 465,4               | 2,35   | 23,89          | ASHRAE HBP  |
| [°F]                                          | 45   | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -35  | 40  | 20   | 40  | 156,3                                        | 534      | 134,6 | 1,12     | 3,84      | 0,97 | 139,1               | 1,17   | 3,43           | EN12900 LBP |
| [°F]                                          | -31  | 104 | 68   | 104 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -10  | 45  | 20   | 45  | 537,4                                        | 1835     | 462,5 | 1,80     | 6,16      | 1,55 | 298,1               | 1,67   | 12,58          | EN12900 MBP |
| [°F]                                          | 14   | 113 | 68   | 113 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 5    | 50  | 20   | 50  | 923,1                                        | 3153     | 794,5 | 2,19     | 7,46      | 1,88 | 422,4               | 2,17   | 23,26          | EN12900 HBP |
| [°F]                                          | 41   | 122 | 68   | 122 |                                              |          |       |          |           |      |                     |        |                |             |

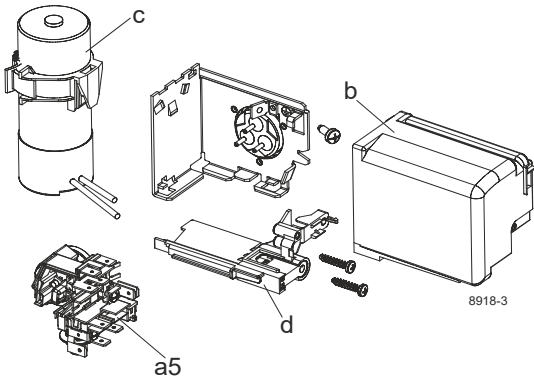
## Performance tables

R134a, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, 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]        | -35  | -31  | 147,7            | 504     | 127,1    | 1,06  | 3,61     | 0,91      | 139,8 | 1,17 | 3,19   |
| cond. pressure   | -25  | -13  | 259,6            | 886     | 223,4    | 1,27  | 4,34     | 1,09      | 204,1 | 1,35 | 5,62   |
| pc= 45/113       | -15  | 5    | 439,4            | 1501    | 378,2    | 1,65  | 5,62     | 1,42      | 266,8 | 1,56 | 9,58   |
| return gas temp. | -10  | 14   | 557,6            | 1904    | 479,8    | 1,87  | 6,39     | 1,61      | 298,1 | 1,67 | 12,20  |
| RGT= 32/90       | -5   | 23   | 695,9            | 2377    | 598,9    | 2,11  | 7,21     | 1,82      | 329,7 | 1,79 | 15,30  |
| liquid temp      | 0    | 32   | 855,5            | 2922    | 736,2    | 2,37  | 8,08     | 2,04      | 361,6 | 1,92 | 18,92  |
| Tliq= 45/113     | 7,2  | 45   | 1124,8           | 3841    | 968,0    | 2,75  | 9,40     | 2,37      | 408,7 | 2,11 | 25,12  |
| [°C / °F]        | -35  | -31  | 117,8            | 402     | 101,4    | 0,83  | 2,84     | 0,72      | 141,6 | 1,18 | 2,80   |
| cond. pressure   | -25  | -13  | 219,7            | 750     | 189,0    | 1,04  | 3,56     | 0,90      | 210,7 | 1,37 | 5,25   |
| pc= 55/131       | -15  | 5    | 377,4            | 1289    | 324,8    | 1,33  | 4,54     | 1,14      | 283,8 | 1,62 | 9,09   |
| return gas temp  | -10  | 14   | 479,9            | 1639    | 413,0    | 1,49  | 5,08     | 1,28      | 322,4 | 1,77 | 11,60  |
| RGT= 32/90       | -5   | 23   | 599,5            | 2047    | 515,9    | 1,65  | 5,65     | 1,42      | 362,5 | 1,92 | 14,57  |
| liquid temp      | 0    | 32   | 737,3            | 2518    | 634,5    | 1,82  | 6,23     | 1,57      | 404,4 | 2,09 | 18,03  |
| Tliq= 55/131     | 7,2  | 45   | 970,0            | 3313    | 834,8    | 2,07  | 7,07     | 1,78      | 468,3 | 2,36 | 23,99  |

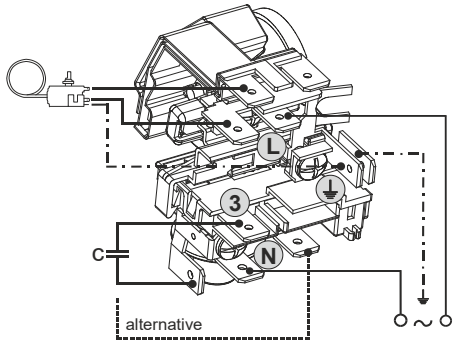
|             |            |               |         |             |          |
|-------------|------------|---------------|---------|-------------|----------|
| Model       |            |               |         |             |          |
| Designation | KLE8.6GFTX | 220-240V/50Hz | Conf. 3 | Sales code: | 106G5913 |

| Configuration          | Electrical accessories / wiring diagram |  |  |  |      |
|------------------------|-----------------------------------------|--|--|--|------|
| Motor configuration    | CSIR                                    |  |  |  | CSIR |
| Power supply (nominal) | 220-240V/50Hz 1~                        |  |  |  |      |
| Refrigerant            | R513A                                   |  |  |  |      |
| Application            | LBP+MBP+HBP                             |  |  |  |      |
| Voltage range          | 187-254V                                |  |  |  |      |
| Starting torque        | HST                                     |  |  |  |      |
| Approvals              | VDE                                     |  |  |  |      |
|                        | CB                                      |  |  |  |      |
|                        | UL                                      |  |  |  |      |

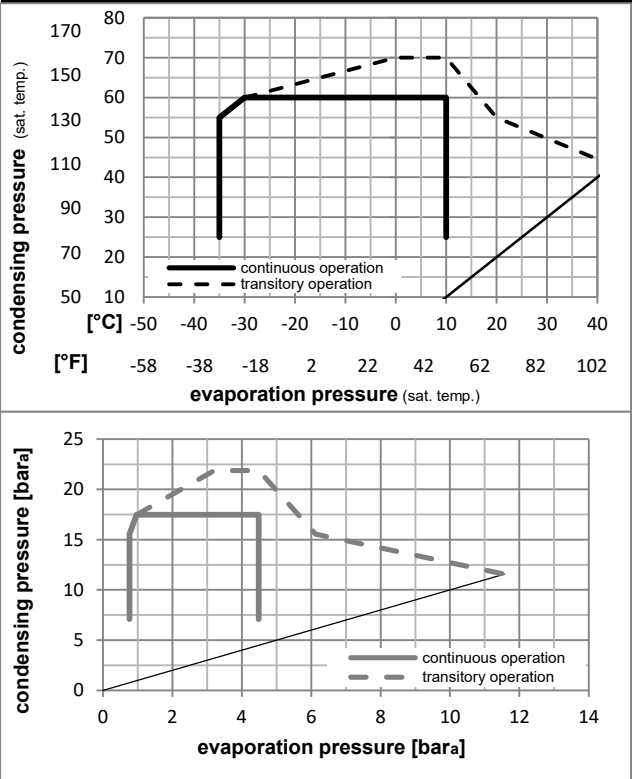


Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| 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 pressure range



Components (incl. and pre. assembl.)

|      |                                    |          |
|------|------------------------------------|----------|
| a5   | current relay (T0377/L6-S1)        | 117U7071 |
| c    | start capacitor (80µF, 6.3mm)      | 117U5001 |
| b, d | cover + clamp + screws(5VA-compl.) | 103N0600 |

Alternative comp.

|      |                                    |          |
|------|------------------------------------|----------|
| b, d | 100x cover + clamp + screws(5VA)   | 103N2060 |
| b, d | cover + clamp + screws(5VA) in bag | 103N1060 |

## Model

Designation **KLE8.6GFTX** **220-240V/50Hz** Conf. 3 Sales code: **106G5913**

## Optimization + standard conditions

R513A, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

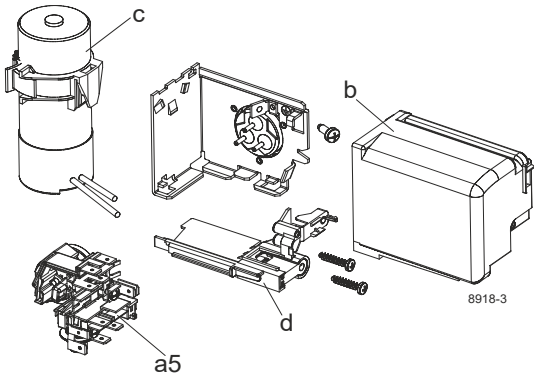
| <div> <div>Evaporating pressure (saturation temperature)</div> <div>Condensing pressure (saturation temperature)</div> <div>Return gas temp.</div> <div>Liquid temp.</div> <div>Cooling capacity</div> <div>COP</div> <div>EER</div> <div>Power consumption</div> <div>Current consumption</div> <div>Ref. mass flow</div> </div> |     |     |     |      |       |         |          |       |          |           |       |      |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|------|-------|---------|----------|-------|----------|-----------|-------|------|-------|
|                                                                                                                                                                                                                                                                                                                                   | pe  | pc  | RGT | Tliq | [W]   | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1    | I    | m     |
| [°C]                                                                                                                                                                                                                                                                                                                              | -23 | 54  | 32  | 32   | 273,8 | 935     | 235,7    | 1,34  | 4,58     | 1,15      | 204,1 | 1,47 | 5,89  |
| [°F]                                                                                                                                                                                                                                                                                                                              | -10 | 130 | 90  | 90   |       |         |          |       |          |           |       |      |       |
| [°C]                                                                                                                                                                                                                                                                                                                              | -7  | 54  | 35  | 46   | 541,9 | 1851    | 466,4    | 1,75  | 5,98     | 1,51      | 309,4 | 1,90 | 13,27 |
| [°F]                                                                                                                                                                                                                                                                                                                              | 20  | 130 | 95  | 115  |       |         |          |       |          |           |       |      |       |
| [°C]                                                                                                                                                                                                                                                                                                                              | 7,2 | 54  | 35  | 46   | 924,8 | 3158    | 795,9    | 2,26  | 7,70     | 1,94      | 410,0 | 2,37 | 22,97 |
| [°F]                                                                                                                                                                                                                                                                                                                              | 45  | 130 | 95  | 115  |       |         |          |       |          |           |       |      |       |
| [°C]                                                                                                                                                                                                                                                                                                                              | -35 | 40  | 20  | 40   | 145,9 | 498     | 125,5    | 1,05  | 3,58     | 0,90      | 139,3 | 1,26 | 3,61  |
| [°F]                                                                                                                                                                                                                                                                                                                              | -31 | 104 | 68  | 104  |       |         |          |       |          |           |       |      |       |
| [°C]                                                                                                                                                                                                                                                                                                                              | -10 | 45  | 20  | 45   | 470,4 | 1607    | 404,9    | 1,77  | 6,04     | 1,52      | 266,0 | 1,72 | 12,47 |
| [°F]                                                                                                                                                                                                                                                                                                                              | 14  | 113 | 68  | 113  |       |         |          |       |          |           |       |      |       |
| [°C]                                                                                                                                                                                                                                                                                                                              | 5   | 50  | 20  | 50   | 783,5 | 2676    | 674,2    | 2,10  | 7,18     | 1,81      | 372,6 | 2,19 | 22,46 |
| [°F]                                                                                                                                                                                                                                                                                                                              | 41  | 122 | 68  | 122  |       |         |          |       |          |           |       |      |       |

## Performance tables

R513A, 220V/50Hz, CSIR, fan 3m/s, VDE, CB, UL

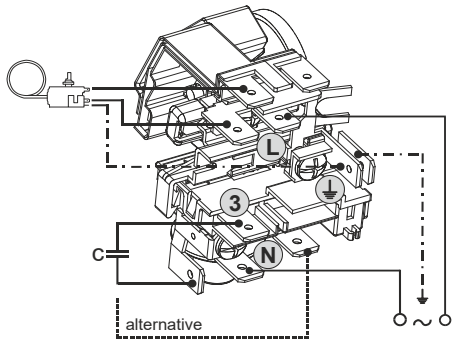
|                  | pe   | Cooling capacity |        |         | COP      | EER   | P1       |           |       | I    | m      |
|------------------|------|------------------|--------|---------|----------|-------|----------|-----------|-------|------|--------|
|                  | [°C] | [°F]             | [W]    | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]   | [A]  | [kg/h] |
| [°C / °F]        | -35  | -31              | 138,4  | 473     | 119,1    | 0,99  | 3,37     | 0,85      | 140,2 | 1,26 | 3,36   |
| cond. pressure   | -25  | -13              | 235,4  | 804     | 202,6    | 1,25  | 4,27     | 1,08      | 188,1 | 1,42 | 5,74   |
| pc= 45/113       | -15  | 5                | 390,9  | 1335    | 336,4    | 1,63  | 5,57     | 1,40      | 239,4 | 1,61 | 9,58   |
| return gas temp. | -10  | 14               | 491,9  | 1680    | 423,4    | 1,85  | 6,32     | 1,59      | 266,0 | 1,72 | 12,09  |
| RGT= 32/90       | 0    | 32               | 743,4  | 2539    | 639,8    | 2,32  | 7,93     | 2,00      | 320,1 | 1,95 | 18,44  |
| liquid temp      | 5    | 41               | 894,8  | 3056    | 770,1    | 2,58  | 8,80     | 2,22      | 347,4 | 2,07 | 22,32  |
| Tliq= 45/113     | 10   | 50               | 1064,2 | 3634    | 915,9    | 2,84  | 9,70     | 2,44      | 374,7 | 2,20 | 26,72  |
| [°C / °F]        | -35  | -31              | 108,2  | 369     | 93,1     | 0,75  | 2,57     | 0,65      | 143,6 | 1,28 | 2,95   |
| cond. pressure   | -25  | -13              | 195,3  | 667     | 168,0    | 1,00  | 3,42     | 0,86      | 195,2 | 1,44 | 5,35   |
| pc= 55/131       | -15  | 5                | 329,6  | 1126    | 283,6    | 1,29  | 4,41     | 1,11      | 255,2 | 1,67 | 9,08   |
| return gas temp  | -10  | 14               | 415,8  | 1420    | 357,8    | 1,44  | 4,93     | 1,24      | 288,0 | 1,81 | 11,50  |
| RGT= 32/90       | 0    | 32               | 629,1  | 2148    | 541,4    | 1,75  | 5,99     | 1,51      | 358,5 | 2,12 | 17,57  |
| liquid temp      | 5    | 41               | 757,2  | 2586    | 651,7    | 1,91  | 6,53     | 1,65      | 395,8 | 2,30 | 21,28  |
| Tliq= 55/131     | 10   | 50               | 900,5  | 3075    | 774,9    | 2,07  | 7,08     | 1,78      | 434,3 | 2,48 | 25,49  |

| Model                  |                  |                                         |                      |
|------------------------|------------------|-----------------------------------------|----------------------|
| Designation            | KLE8.6GFTX       | 208-230V/60Hz                           | Conf. 4              |
|                        |                  |                                         | Sales code: 106G5913 |
| Configuration          |                  | Electrical accessories / wiring diagram |                      |
| Motor configuration    | CSIR             | CSIR                                    |                      |
| Power supply (nominal) | 208-230V/60Hz 1~ |                                         |                      |
| Refrigerant            | R513A            |                                         |                      |
| Application            | LBP+MBP          |                                         |                      |
| Voltage range          | 198-253V         |                                         |                      |
| Starting torque        | HST              |                                         |                      |
| Approvals              | VDE              |                                         |                      |
|                        | CB               |                                         |                      |
|                        | UL               |                                         |                      |

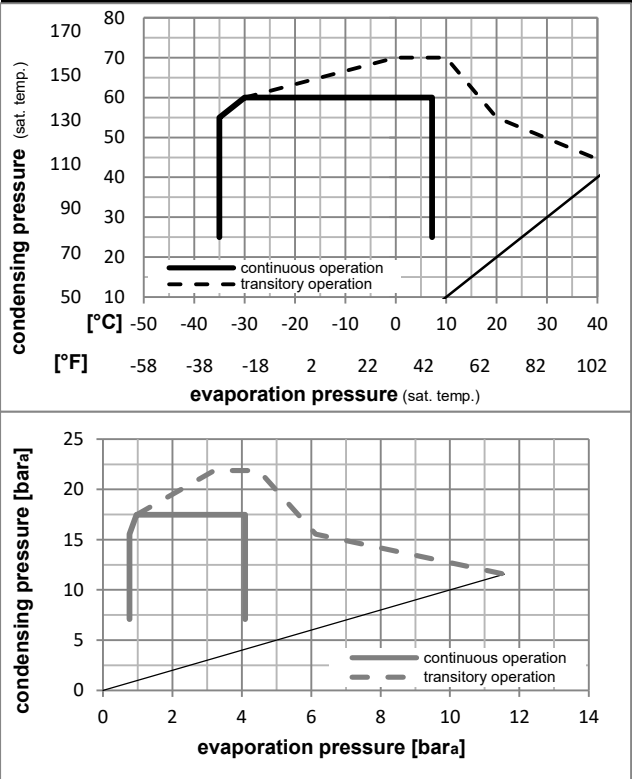


Ambient/ machine room temperatures minimum /maximum

|                                 |                        |
|---------------------------------|------------------------|
| 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 pressure range



Components (incl. and pre. assembl.)

|      |                                    |          |
|------|------------------------------------|----------|
| a5   | current relay (T0377/L6-S1)        | 117U7071 |
| c    | start capacitor (80µF, 6.3mm)      | 117U5001 |
| b, d | cover + clamp + screws(5VA-compl.) | 103N0600 |

Alternative comp.

|      |                                    |          |
|------|------------------------------------|----------|
| b, d | 100x cover + clamp + screws(5VA)   | 103N2060 |
| b, d | cover + clamp + screws(5VA) in bag | 103N1060 |

## Model

Designation **KLE8.6GFTX** **208-230V/60Hz** Conf. 4 Sales code: **106G5913**

## Optimization + standard conditions

R513A, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, UL

| Evaporating pressure (saturation temperature) |      |     |      |     | Condensing pressure (saturation temperature) |          |       |          |           |      | Power consumption   |        |                |             |
|-----------------------------------------------|------|-----|------|-----|----------------------------------------------|----------|-------|----------|-----------|------|---------------------|--------|----------------|-------------|
| Return gas temp.                              |      |     |      |     | Liquid temp.                                 |          |       |          |           |      | Current consumption |        |                |             |
| Cooling capacity                              |      |     |      |     | COP                                          |          | EER   |          | P1        |      | I                   |        | Ref. mass flow |             |
| pe                                            | pc   | RGT | Tliq | [W] | [Btu/h]                                      | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W]  | [A]                 | ṁ      |                |             |
| [°C]                                          | [°C] |     |      |     |                                              |          |       |          |           |      |                     | [kg/h] |                |             |
| [°C]                                          | -23  | 54  | 32   | 32  | 330,3                                        | 1128     | 284,2 | 1,36     | 4,64      | 1,17 | 243,0               | 1,48   | 7,11           | ASHRAE LBP  |
| [°F]                                          | -10  | 130 | 90   | 90  |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -7   | 54  | 35   | 46  | 647,0                                        | 2210     | 556,8 | 1,75     | 5,96      | 1,50 | 370,5               | 1,95   | 15,85          | ASHRAE MBP  |
| [°F]                                          | 20   | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 7,2  | 54  | 35   | 46  | 1105,2                                       | 3775     | 951,2 | 2,26     | 7,72      | 1,94 | 489,2               | 2,45   | 27,46          | ASHRAE HBP  |
| [°F]                                          | 45   | 130 | 95   | 115 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -35  | 40  | 20   | 40  | 173,9                                        | 594      | 149,7 | 1,12     | 3,83      | 0,97 | 155,0               | 1,21   | 4,30           | EN12900 LBP |
| [°F]                                          | -31  | 104 | 68   | 104 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | -10  | 45  | 20   | 45  | 560,9                                        | 1916     | 482,8 | 1,76     | 6,02      | 1,52 | 318,5               | 1,75   | 14,87          | EN12900 MBP |
| [°F]                                          | 14   | 113 | 68   | 113 |                                              |          |       |          |           |      |                     |        |                |             |
|                                               |      |     |      |     |                                              |          |       |          |           |      |                     |        |                |             |
| [°C]                                          | 5    | 50  | 20   | 50  | 935,4                                        | 3195     | 805,0 | 2,10     | 7,18      | 1,81 | 444,7               | 2,26   | 26,82          | EN12900 HBP |
| [°F]                                          | 41   | 122 | 68   | 122 |                                              |          |       |          |           |      |                     |        |                |             |

## Performance tables

R513A, 230V/60Hz, CSIR, fan 3m/s, VDE, CB, 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]        | -35  | -31  | 165,5            | 565     | 142,4    | 1,06  | 3,61     | 0,91      | 156,6 | 1,21 | 4,02   |   |  |   |  |
| cond. pressure   | -25  | -13  | 282,1            | 963     | 242,7    | 1,27  | 4,32     | 1,09      | 222,8 | 1,41 | 6,87   |   |  |   |  |
| pc= 45/113       | -15  | 5    | 466,6            | 1594    | 401,6    | 1,63  | 5,56     | 1,40      | 286,8 | 1,63 | 11,43  |   |  |   |  |
| return gas temp. | -10  | 14   | 586,6            | 2003    | 504,8    | 1,84  | 6,29     | 1,59      | 318,5 | 1,75 | 14,42  |   |  |   |  |
| RGT= 32/90       | -5   | 23   | 726,1            | 2480    | 624,9    | 2,07  | 7,08     | 1,78      | 350,2 | 1,87 | 17,93  |   |  |   |  |
| liquid temp      | 0    | 32   | 886,2            | 3026    | 762,6    | 2,32  | 7,92     | 2,00      | 382,2 | 2,00 | 21,98  |   |  |   |  |
| Tliq= 45/113     | 7,2  | 45   | 1154,3           | 3942    | 993,4    | 2,69  | 9,19     | 2,31      | 429,1 | 2,19 | 28,87  |   |  |   |  |
| [°C / °F]        | -35  | -31  | 132,2            | 451     | 113,8    | 0,82  | 2,82     | 0,71      | 160,3 | 1,22 | 3,60   |   |  |   |  |
| cond. pressure   | -25  | -13  | 236,1            | 806     | 203,2    | 1,02  | 3,48     | 0,88      | 231,5 | 1,44 | 6,46   |   |  |   |  |
| pc= 55/131       | -15  | 5    | 394,8            | 1348    | 339,8    | 1,29  | 4,40     | 1,11      | 306,2 | 1,70 | 10,87  |   |  |   |  |
| return gas temp  | -10  | 14   | 496,9            | 1697    | 427,6    | 1,44  | 4,91     | 1,24      | 345,3 | 1,85 | 13,74  |   |  |   |  |
| RGT= 32/90       | -5   | 23   | 615,3            | 2101    | 529,5    | 1,59  | 5,45     | 1,37      | 385,9 | 2,02 | 17,09  |   |  |   |  |
| liquid temp      | 0    | 32   | 750,9            | 2564    | 646,2    | 1,75  | 5,99     | 1,51      | 428,2 | 2,19 | 20,97  |   |  |   |  |
| Tliq= 55/131     | 7,2  | 45   | 978,0            | 3340    | 841,7    | 1,99  | 6,78     | 1,71      | 492,3 | 2,46 | 27,57  |   |  |   |  |