**Model**
**KLF6.6MFT**

Sales code:
**106G2711**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R134a** |
| Refr. charge - tech. limit | **400g / 14.11oz** |
| Weight | **9.40 kg / 20.72lbs** |
| Displacement | **6.60 cm3 / 0.40cu.in** |
| Compressors on pallet | **100** |

## General – Configurations With KLF6.6MFT

| – | **Conf. 1** | **Conf. 2** |
|---|---|---|
| Motor configuration | CSIR | CSIR |
| Power supply (nominal) | 200-240 V/50 Hz | 208-230 V/60 Hz |
| Number of phases | 1 | 1 |
| Voltage range | 170-254 V | 198-253 V |
| Approvals | VDE, UL, CCC | VDE, UL, CCC |
| Starting torque | HST | HST |
| Refrigerant | R134a | R134a |
| Application | MBP | MBP |
| Hot gas defrost | OK | OK |
| Long interval pull down | OK | OK |

## Application Notes

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Compressor can operate safely in LBP, no official third-party approval yet

**Model**
**KLF6.6MFT**

Sales code:
**106G2711**

## Compressor Design

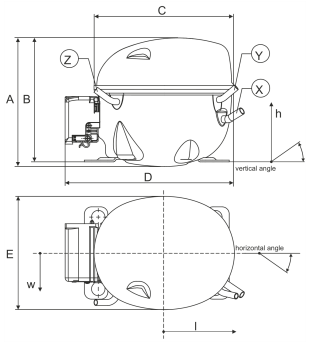
| | | | |
|---|---|---|---|
| Oil type | **POE** | Winding resistance main | **8.4 Ohm** |
| Oil viscosity | **9,7cSt** | Winding resistance aux | **11.9 Ohm** |
| Oil quantity | **165 / 5.58fl.oz** | Max. winding temp. | **125 °C** |
| Free gas volume comp. | **1,580 cm3 / 53.43fl.oz** | Max. discharge temp. | **130°C / 266°F** |
| Motor protection | **external** | | |

## Compressor Dimensions

**Housing**

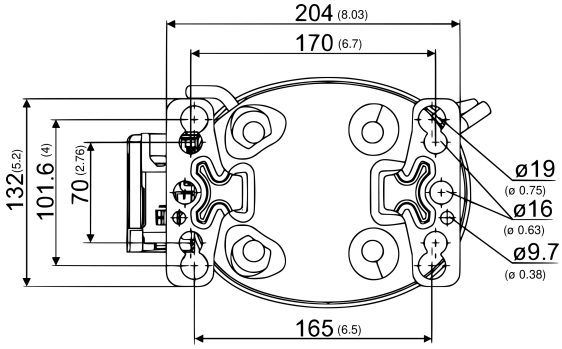
| | |
|---|---|
| A Height | **182mm / 7.17in** |
| B Height | **175mm / 6.89in** |
| C Length shell | **198mm / 7.80in** |
| D Length w. cover | **238mm / 9.37in** |
| E Width | **160mm / 6.30in** |

Find 3D Model here



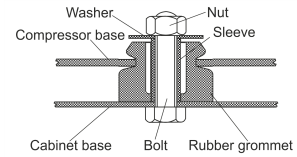

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 8.11–8.29 / 0.32–0.33in | øi 6.11–6.29 / 0.24–0.25in | øi 6.11–6.29 / 0.24–0.25in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 35° | 13° | 0° |
| Vertical angle ±2° | 30° | 40° | 145° |
| Position l/h/w [mm] | 119/73/59 / 4.69/2.87/2.32in | 117/107/66 / 4.61/4.21/2.60in | -88/101/71 / -3.46/3.98/2.80in |
| Straight tube l. [mm] | 13.5 / 0.53in | 13.5 / 0.53in | 13.5 / 0.53in |

## Mounting Accessories

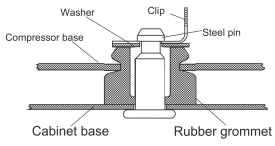



Dimensions in mm [in]

Bolt joint




Snap-on




| | 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 |

**Model**
**KLF6.6MFT** Configuration 1

Sales code:
**106G2711**

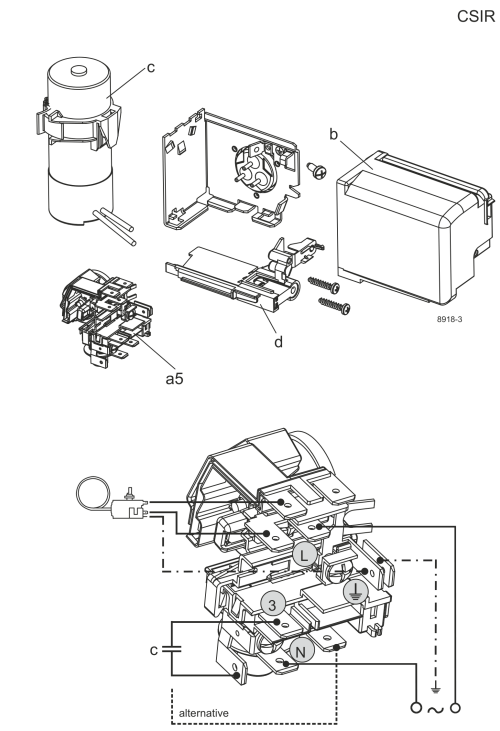
## Configuration

| | |
|---|---|
| Motor configuration | **CSIR** |
| Power supply (nominal) | **200-240 V/50 Hz 1~** |
| Refrigerant | **R134a** |
| Application | **MBP** |
| Voltage range | **170-254 V** |
| Starting torque | **HST** |
| Approvals | **VDE, UL, CCC** |
| Starting device type | **relay** |
| Run capacitor | **-/-** |
| Start capacitor | **80 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **13.4 A** |
| RLA (rated load amps / 1s/ U(N)) | **1.8 A** |
| Cut in current (U(N)) | **12.3 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

**System Cooling**
fan 3m/s

## Electrical Accessories / Wiring Diagram

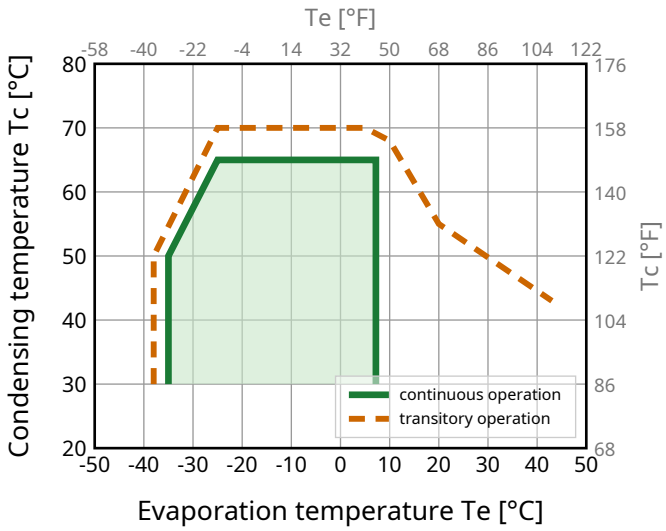


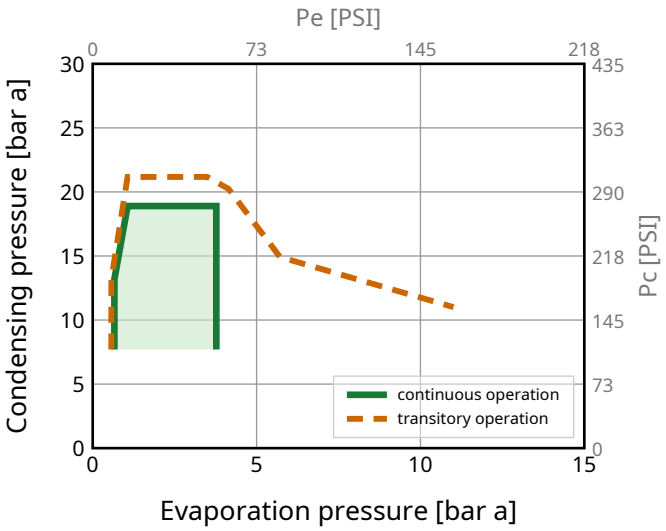

View full size

**Components (already pre-assembled)**
**a5** current relay (T0377/L6-S1) 117U7071
**c** start capacitor (80µF, 6.3mm) 117U5001
**b** cover terminal board 10636401
**.** screw uni en iso 4757 10641201

**Alternative components**
**.** cable clamp 16058100
**.** screw - uni6954 10636000
**.** screw - uni6954 10636200

## Operation Pressure Range



**Model** Sales code:

**KLF6.6MFT** Configuration 1 **106G2711**

## Standard Conditions

**R134a**, 200 V/50 Hz, CSIR, fan 3m/s

| pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P | I | ṁ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] [°F] | [°C] [°F] | [°C] [°F] | [°C] [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] | |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **400** | 1366 | 344 | **1.92** | 6.55 | 209 | 1.49 | 8.72 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **310** | 1057 | 266 | **1.58** | 5.40 | 196 | 1.45 | 7.47 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **348** | 1187 | 299 | **1.95** | 6.64 | 179 | 1.39 | 8.11 | **EN12900 MBP** |
| -6.7 20 | 48.8 119.8 | 18.3 64.9 | 48.8 119.8 | **381** | 1300 | 328 | **1.93** | 6.57 | 198 | 1.45 | 9.36 | **ARI540 MBP** |
| -10 14 | 45 113 | 32 89.6 | 45 113 | **360** | 1229 | 310 | **2.02** | 6.88 | 179 | 1.39 | 7.87 | **opt MBP 1** |
| -25 -13 | 45 113 | 32 89.6 | 45 113 | **161** | 549 | 138 | **1.27** | 4.33 | 127 | 1.24 | 3.48 | **opt MBP 2** |

## Performance Tables

**R134a**, 200 V/50 Hz, CSIR, fan 3m/s

**pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F**

| pe | | Cooling capacity | | | COP | EER | P | I | ṁ |
|---|---|---|---|---|---|---|---|---|---|
| [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] |
| -30 | -22 | **119** | 405 | 102 | **1.09** | 3.72 | 109 | 1.20 | 2.56 |
| -20 | -4 | **215** | 733 | 185 | **1.49** | 5.07 | 144 | 1.28 | 4.66 |
| -10 | 14 | **360** | 1229 | 310 | **2.02** | 6.88 | 179 | 1.39 | 7.87 |
| 0 | 32 | **563** | 1920 | 484 | **2.64** | 9.01 | 213 | 1.51 | 12.42 |
| 7.2 | 45 | **748** | 2551 | 643 | **3.13** | 10.70 | 238 | 1.60 | 16.66 |

**pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -30 | -22 | **99** | 338 | 85 | **0.92** | 3.14 | 108 | 1.19 | 2.36 |
| -20 | -4 | **183** | 626 | 158 | **1.20** | 4.09 | 153 | 1.31 | 4.39 |
| -10 | 14 | **310** | 1057 | 266 | **1.58** | 5.40 | 196 | 1.45 | 7.47 |
| 0 | 32 | **486** | 1657 | 418 | **2.04** | 6.98 | 238 | 1.60 | 11.84 |
| 7.2 | 45 | **647** | 2207 | 556 | **2.42** | 8.25 | 267 | 1.72 | 15.94 |

**Model**
**KLF6.6MFT** Configuration 2

Sales code:
**106G2711**

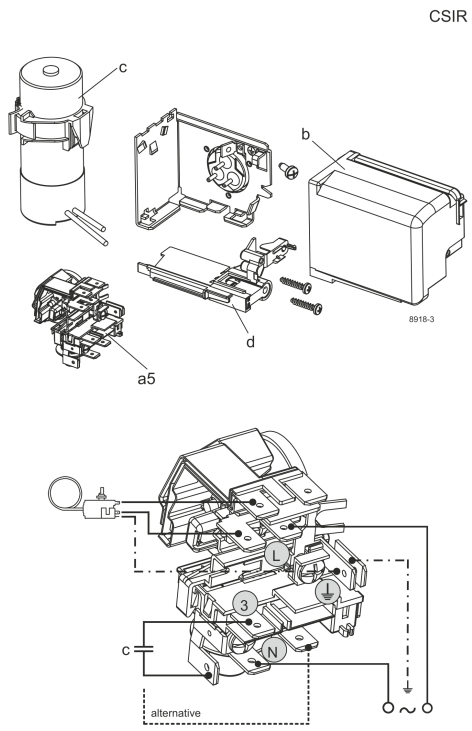
## Configuration

| | |
|---|---|
| Motor configuration | **CSIR** |
| Power supply (nominal) | **208-230 V/60 Hz 1~** |
| Refrigerant | **R134a** |
| Application | **MBP** |
| Voltage range | **198-253 V** |
| Starting torque | **HST** |
| Approvals | **VDE, UL, CCC** |
| Starting device type | **relay** |
| Run capacitor | **-/-** |
| Start capacitor | **80 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **13.4 A** |
| RLA (rated load amps / 1s/ U(N)) | **1.8 A** |
| Cut in current (U(N)) | **12.3 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

**System Cooling**
fan 3m/s

## Electrical Accessories / Wiring Diagram

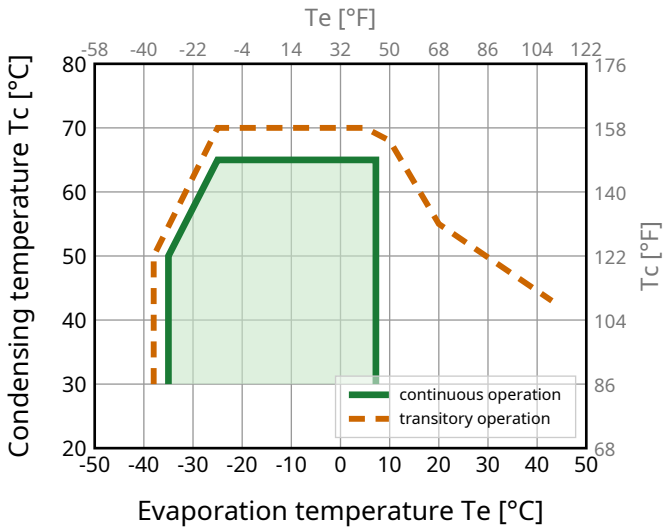


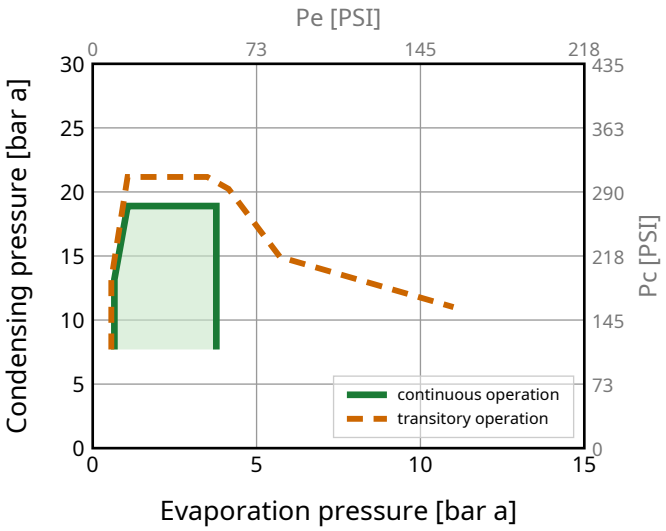

View full size

**Components (already pre-assembled)**
**a5** current relay (T0377/L6-S1) 117U7071
**c** start capacitor (80µF, 6.3mm) 117U5001
**b** cover terminal board 10636401
**.** screw uni en iso 4757 10641201

**Alternative components**
**.** cable clamp 16058100
**.** screw - uni6954 10636000
**.** screw - uni6954 10636200

## Operation Pressure Range



**Model** Sales code:

**KLF6.6MFT** Configuration 2 **106G2711**

## Standard Conditions

**R134a**, 208 V/60 Hz, CSIR, fan 3m/s

| pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P | I | ṁ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] [°F] | [°C] [°F] | [°C] [°F] | [°C] [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] | |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **474** | 1616 | 407 | **1.95** | 6.65 | 243 | 1.48 | 10.31 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **367** | 1254 | 316 | **1.61** | 5.51 | 228 | 1.43 | 8.86 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **406** | 1386 | 349 | **1.93** | 6.58 | 211 | 1.37 | 9.47 | **EN12900 MBP** |
| -6.7 20 | 48.8 119.8 | 18.3 64.9 | 48.8 119.8 | **447** | 1526 | 385 | **1.92** | 6.54 | 233 | 1.45 | 10.99 | **ARI540 MBP** |
| -10 14 | 45 113 | 32 89.6 | 45 113 | **421** | 1435 | 362 | **2.00** | 6.81 | 211 | 1.37 | 9.19 | **opt MBP 1** |
| -25 -13 | 45 113 | 32 89.6 | 45 113 | **187** | 638 | 161 | **1.29** | 4.40 | 145 | 1.19 | 4.04 | **opt MBP 2** |

## Performance Tables

**R134a**, 208 V/60 Hz, CSIR, fan 3m/s

**pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F**

| pe | | Cooling capacity | | | COP | EER | P | I | ṁ |
|---|---|---|---|---|---|---|---|---|---|
| [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] |
| -30 | -22 | **138** | 469 | 118 | **1.11** | 3.80 | 124 | 1.14 | 2.97 |
| -20 | -4 | **250** | 853 | 215 | **1.50** | 5.13 | 166 | 1.24 | 5.42 |
| -10 | 14 | **421** | 1435 | 362 | **2.00** | 6.81 | 211 | 1.37 | 9.19 |
| 0 | 32 | **657** | 2242 | 565 | **2.56** | 8.75 | 256 | 1.52 | 14.50 |
| 7.2 | 45 | **872** | 2977 | 750 | **3.01** | 10.26 | 290 | 1.64 | 19.44 |

**pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -30 | -22 | **115** | 394 | 99 | **0.90** | 3.06 | 129 | 1.15 | 2.74 |
| -20 | -4 | **218** | 743 | 187 | **1.22** | 4.18 | 178 | 1.28 | 5.21 |
| -10 | 14 | **367** | 1254 | 316 | **1.61** | 5.51 | 228 | 1.43 | 8.86 |
| 0 | 32 | **572** | 1951 | 492 | **2.06** | 7.02 | 278 | 1.60 | 13.94 |
| 7.2 | 45 | **757** | 2583 | 651 | **2.41** | 8.22 | 314 | 1.73 | 18.66 |