

Model  
KLF4.8CND

Sales code:  
106H2510

Compressor Data

|                            |                      |
|----------------------------|----------------------|
| Refrigerant(s)             | R290                 |
| Refr. charge - tech. limit | 200g / 7.05oz        |
| Weight                     | 9.20 kg / 20.28lbs   |
| Displacement               | 4.80 cm3 / 0.29cu.in |
| Compressors on pallet      | 100                  |



General – Configurations With KLF4.8CND

|                         |                 |
|-------------------------|-----------------|
| -                       | Conf. 1         |
| Motor configuration     | CSIR            |
| Power supply (nominal)  | 220-240 V/50 Hz |
| Number of phases        | 1               |
| Voltage range           | 198-254 V       |
| Approvals               | VDE, CCC        |
| Starting torque         | HST             |
| Refrigerant             | R290            |
| Application             | LBP+MBP         |
| Hot gas defrost         | OK              |
| Long interval pull down | 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

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### Compressor Design

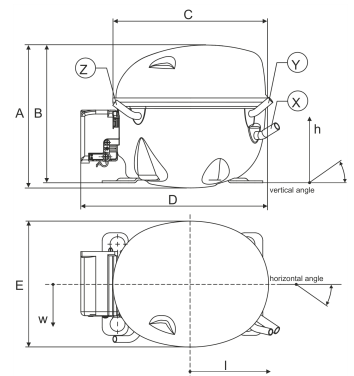
|                       |                                    |                      |               |
|-----------------------|------------------------------------|----------------------|---------------|
| Oil type              | POE                                | Motor protection     | external      |
| Oil viscosity         | 9,7cSt                             | Max. winding temp.   | 125 °C        |
| Oil quantity          | 165 / 5.58fl.oz                    | Max. discharge temp. | 130°C / 266°F |
| Free gas volume comp. | 1,615 cm <sup>3</sup> / 54.61fl.oz |                      |               |

### Compressor Dimensions

#### Housing

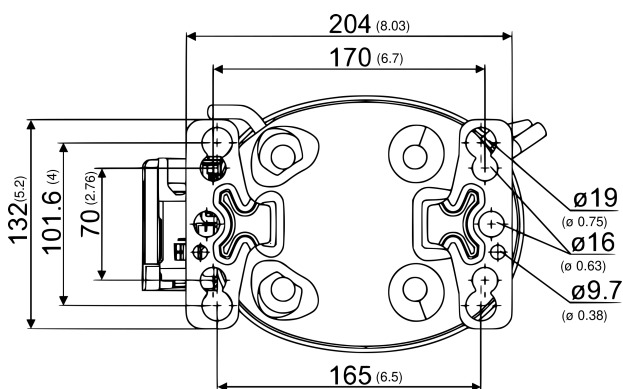
|                   |                |
|-------------------|----------------|
| A Height          | 182mm / 7.17in |
| B Height          | 175mm / 6.89in |
| C Length shell    | 198mm / 7.80in |
| D Length w. cover | 238mm / 9.37in |
| E Width           | 160mm / 6.30in |

[Find 3D Model here](#)

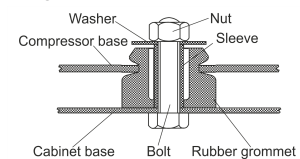


| Connectors            | Suction X                    | Discharge Y                   | Process Z                      |
|-----------------------|------------------------------|-------------------------------|--------------------------------|
| Diameter [mm]         | øi 8.11–8.29 / 0.32–0.33in   | 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                  |

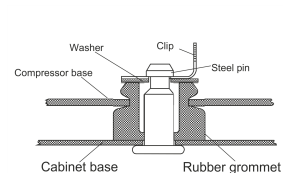
### Mounting Accessories



#### Bolt joint



#### Snap-on



Dimensions in mm [in]

|                            | 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   |

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Configuration 1

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### Configuration

|                                    |                           |
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| Motor configuration                | <b>CSIR</b>               |
| Power supply (nominal)             | <b>220-240 V/50 Hz 1~</b> |
| Refrigerant                        | <b>R290</b>               |
| Application                        | <b>LBP+MBP</b>            |
| Voltage range                      | <b>198-254 V</b>          |
| Starting torque                    | <b>HST</b>                |
| Approvals                          | <b>VDE, CCC</b>           |
| Starting device type               | <b>relay</b>              |
| Run capacitor                      | <b>-/-</b>                |
| Start capacitor                    | <b>80 µF</b>              |
| LRA (locked rotor amps / 4s/ U(N)) | <b>10.2 A</b>             |
| RLA (rated load amps / 1s/ U(N))   | <b>1.4 A</b>              |
| Cut in current (U(N))              | <b>12.65 A</b>            |

### 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



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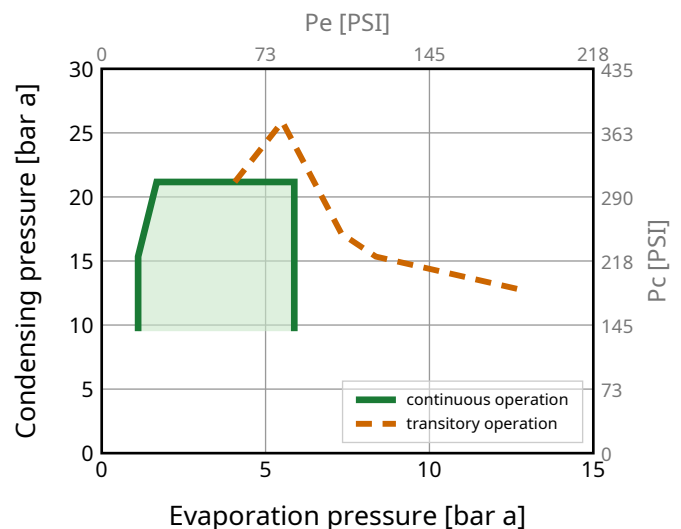
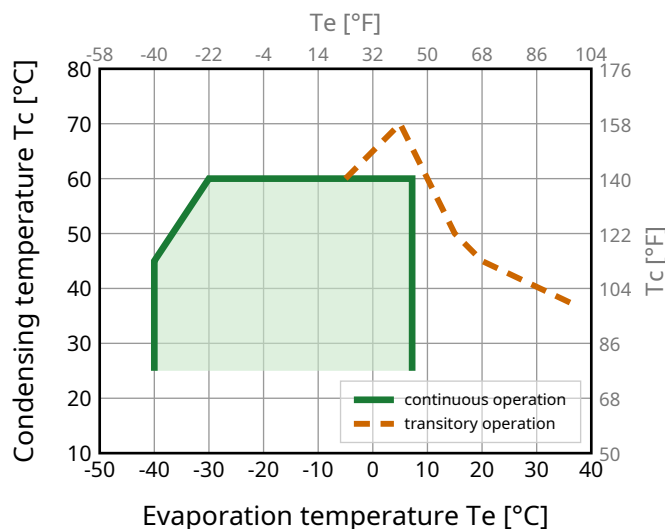
### Components (already pre-assembled)

- a5** current relay (T1189/L6-S3) 117U7073
- 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



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Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

| pe           | pc            | RGT          | Tliq         | Cooling capacity |         |          | COP   | EER      | P   | I    | m      |             |
|--------------|---------------|--------------|--------------|------------------|---------|----------|-------|----------|-----|------|--------|-------------|
| [°C]<br>[°F] | [°C]<br>[°F]  | [°C]<br>[°F] | [°C]<br>[°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |             |
| -23.3<br>-10 | 54.4<br>129.9 | 32.2<br>90   | 32.2<br>90   | 231              | 789     | 199      | 1.51  | 5.14     | 154 | 1.07 | 2.35   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131    | 171              | 585     | 147      | 1.15  | 3.93     | 149 | 1.06 | 2.15   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104    | 127              | 433     | 109      | 1.07  | 3.66     | 118 | 0.98 | 1.46   | EN12900 LBP |
| -6.7<br>20   | 54.4<br>129.9 | 35<br>95     | 46.1<br>115  | 410              | 1399    | 353      | 2.07  | 7.05     | 198 | 1.22 | 4.70   | ASHRAE MBP  |
| -10<br>14    | 55<br>131     | 32<br>89.6   | 55<br>131    | 326              | 1112    | 280      | 1.71  | 5.82     | 191 | 1.20 | 4.14   | CECOMAF MBP |
| -10<br>14    | 45<br>113     | 20<br>68     | 45<br>113    | 368              | 1256    | 317      | 2.13  | 7.27     | 173 | 1.13 | 4.53   | EN12900 MBP |

Performance Tables

R290, 220 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    | m      |
|------|------|------------------|---------|----------|-------|----------|-----|------|--------|
| [°C] | [°F] | [W]              | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A]  | [kg/h] |
| -40  | -40  | 79               | 268     | 68       | 0.73  | 2.49     | 108 | 0.96 | 0.88   |
| -30  | -22  | 161              | 550     | 139      | 1.22  | 4.17     | 132 | 1.01 | 1.82   |
| -20  | -4   | 258              | 880     | 222      | 1.68  | 5.74     | 154 | 1.07 | 2.94   |
| -10  | 14   | 383              | 1306    | 329      | 2.22  | 7.56     | 173 | 1.13 | 4.39   |
| 0    | 32   | 549              | 1873    | 472      | 2.90  | 9.89     | 189 | 1.19 | 6.38   |
| 7.2  | 45   | 702              | 2394    | 603      | 3.51  | 11.99    | 200 | 1.23 | 8.26   |

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

|     |     |     |      |     |      |      |     |      |      |
|-----|-----|-----|------|-----|------|------|-----|------|------|
| -40 | -40 | 52  | 177  | 45  | 0.51 | 1.73 | 102 | 0.94 | 0.64 |
| -30 | -22 | 130 | 443  | 112 | 0.97 | 3.31 | 134 | 1.02 | 1.62 |
| -20 | -4  | 217 | 740  | 186 | 1.33 | 4.52 | 163 | 1.10 | 2.73 |
| -10 | 14  | 326 | 1112 | 280 | 1.71 | 5.82 | 191 | 1.20 | 4.14 |
| 0   | 32  | 471 | 1607 | 405 | 2.17 | 7.41 | 217 | 1.29 | 6.07 |
| 7.2 | 45  | 605 | 2065 | 521 | 2.58 | 8.82 | 234 | 1.36 | 7.91 |