

Single Pack KLF5.6CNH 115-127V 60Hz CSIR

Single pack code number: **195B4699**

| Position | Title | Code | Amount |
|----------|--|----------|--------|
| 1 | Compressor KLF5.6CNH | 106H3611 | 1 |
| 2 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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Model

| | | | | |
|-------------|------------------|------------------|-------------|-----------------|
| Designation | KLF5.6CNH | 115-127V/60Hz 1~ | Sales code: | 106H3611 |
|-------------|------------------|------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|--------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R290 |
| Oil viscosity | 10,4cSt | Displacement | 5,6cm ³ / 0,34cu.in |
| Oil quantity | 174cm ³ / 5,9fl.oz | Compressors on pallet | 100 |
| Refr. charge - tech. limit | 200g / 7,1oz | | |
| Free gas volume comp. | 1605cm ³ / 54,3fl.oz | | |
| Weight | 9,5kg / 20,9lbs | | |
| Motor protection | external | | |
| Winding resistance main | 2Ω (at 25°C) | | |
| Winding resistance aux | 5,3Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 130°C / 266°F | | |



General - Configurations with KLF5.6CNH

| | |
|------------------------|---|
| | Conf. 1 |
| Motorconfiguration | CSIR |
| Power supply (nominal) | 115-127V/60Hz |
| Number of phases | 1 |
| Voltage range | 95-140V |
| Approvals | UL, CCC |
| Starting torque | HST |
| Note | Electrical equipment is included and pre-assembled to compressor. |

Applications with KLF5.6CNH

| | |
|-------------------------|----------------|
| | Conf. 1 |
| Refrigerant | R290 |
| Application | LBP+MBP |
| System cooling | fan 3m/s |
| Hot gas defrost | OK |
| Long interval pull down | OK |

Electrical data - Configurations with KLF5.6CNH

| | |
|------------------------------------|----------------|
| | Conf. 1 |
| Starting device type | relay |
| Run capacitor | -/- |
| Start capacitor | 240μF |
| LRA (locked rotor amps / 4s/ U(N)) | 31,1A |
| RLA (rated load amps / 1s/ U(N)) | 4,3A |
| Cut in current (U(N)) | 27,8A |

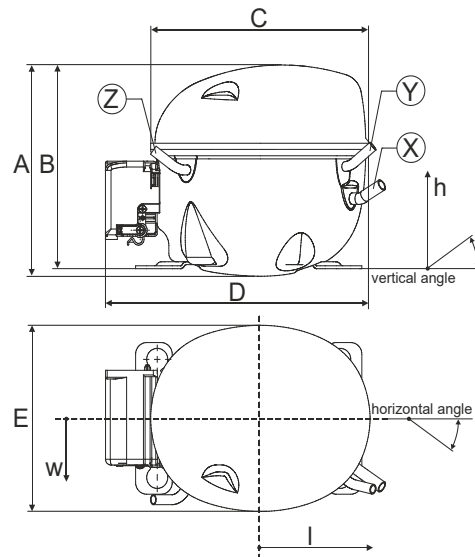
Model

| | | | | |
|-------------|------------------|------------------|-------------|-----------------|
| Designation | KLF5.6CNH | 115-127V/60Hz 1~ | Sales code: | 106H3611 |
|-------------|------------------|------------------|-------------|-----------------|

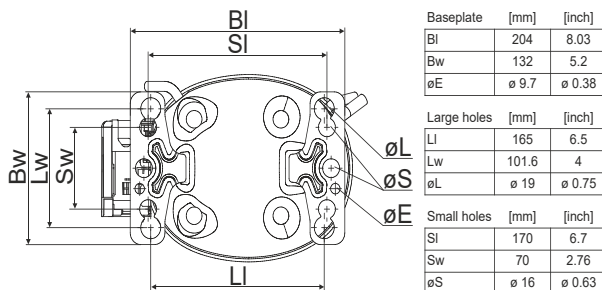
Compressor dimensions

| | | |
|----------------|-------------------|----------------|
| 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 |

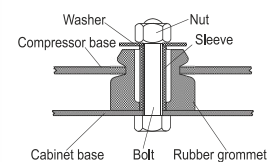
| Connectors | | Suction | Discharge | Process |
|-----------------------|------|--------------|--------------|--------------|
| | | X | Y | Z |
| Diameter | [mm] | øi 8,11-8,29 | øi 6,41-6,59 | øi 6,41-6,59 |
| (i:inside, o:outside) | [in] | øi 0,32-0,33 | øi 0,25-0,26 | øi 0,25-0,26 |
| Material | | 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 |



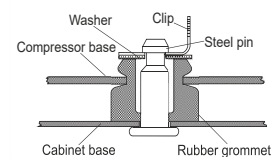
Compressor fixation



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

Operation possible until tilted up to 3 degrees

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

Model

| | | | | | |
|-------------|------------------|----------------------|----------------|-------------|-----------------|
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|-------------|------------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 115-127V/60Hz 1~ |
| Refrigerant | R290 |
| Application | LBP+MBP |
| Voltage range | 95-140V |
| Starting torque | HST |
| Approvals | UL CCC |

Electrical accessories / wiring diagram

CSIR

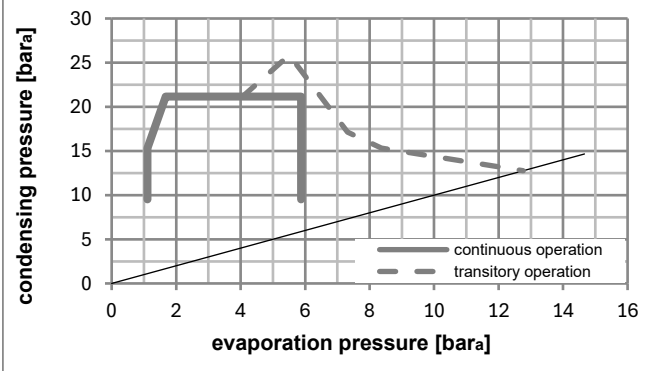


Ambient/ machine room temperatures minimum /maximum

| | |
|---------------------------------|------------------------|
| 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 (already pre-assembled)

| | | |
|----|-----------------------------|----------|
| a5 | current relay (T1217/L6-S5) | 117U7075 |
| c | start capacitor (240µF) | 117U5002 |
| . | cable clamp | 16058100 |
| b | cover terminal board | 10636401 |
| . | screw uni en iso 4757 | 10641201 |
| . | screw - uni6954 | 10636000 |

Alternative comp. (already pre-assembled)

| | | |
|---|-----------------|----------|
| . | screw - uni6954 | 10636200 |
|---|-----------------|----------|

Model

Designation **KLF5.6CNH** **115-127V/60Hz** Conf. 1 Sales code: **106H3611**

Optimization + standard conditions

R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC

| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | COP | EER | Power consumption | | |
|------|------|---|------|------|------|--|---------|----------|------------------|----------|--------------|-------|------------------|--------|--|-----|-----|-------------------|-------------|--|
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | P1 | I | m | | | | | | |
| [°C] | [°F] | [°C] | [°F] | [°C] | [°F] | | | | | | | [W] | [A] | [kg/h] | | | | | | |
| -23 | -10 | 54 | 130 | 32 | 90 | 338,8 | 1157 | 291,6 | 1,61 | 5,49 | 1,38 | 210,8 | 2,78 | 3,43 | | | | | ASHRAE LBP | |
| -25 | -13 | 55 | 131 | 32 | 90 | 253,9 | 867 | 218,5 | 1,26 | 4,29 | 1,08 | 202,3 | 2,73 | 3,16 | | | | | cecomaf LBP | |
| -35 | -31 | 40 | 104 | 20 | 68 | 189,6 | 648 | 163,2 | 1,25 | 4,26 | 1,07 | 152,2 | 2,47 | 2,17 | | | | | EN12900 LBP | |
| -7 | 20 | 54 | 130 | 35 | 95 | 609,1 | 2080 | 524,2 | 2,11 | 7,20 | 1,81 | 289,1 | 3,28 | 6,95 | | | | | ASHRAE MBP | |
| -10 | 14 | 55 | 131 | 32 | 90 | 483,5 | 1651 | 416,1 | 1,75 | 5,98 | 1,51 | 276,0 | 3,19 | 6,12 | | | | | cecomaf MBP | |
| -10 | 14 | 45 | 113 | 20 | 68 | 537,8 | 1837 | 462,9 | 2,14 | 7,30 | 1,84 | 251,6 | 3,03 | 6,60 | | | | | EN12900 MBP | |

Performance tables

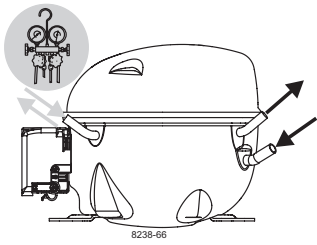
R290, 115V/60Hz, CSIR, fan 3m/s, UL, CCC

| | 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] | -40 | -40 | 140,6 | 480 | 121,0 | 1,03 | 3,53 | 0,89 | 135,9 | 2,41 | 1,57 |
| cond. pressure | -34 | -30 | 187,4 | 640 | 161,3 | 1,19 | 4,07 | 1,03 | 157,1 | 2,49 | 2,10 |
| pc= 45/113 | -23 | -10 | 321,5 | 1098 | 276,7 | 1,59 | 5,44 | 1,37 | 202,0 | 2,72 | 3,63 |
| return gas temp. | -15 | 5 | 460,1 | 1571 | 396,0 | 1,96 | 6,71 | 1,69 | 234,3 | 2,91 | 5,23 |
| RGT= 32/90 | -4 | 25 | 699,7 | 2390 | 602,2 | 2,60 | 8,87 | 2,23 | 269,5 | 3,15 | 8,07 |
| liquid temp | 0 | 32 | 799,2 | 2729 | 687,8 | 2,87 | 9,80 | 2,47 | 278,5 | 3,21 | 9,27 |
| Tliq= 45/113 | 7,2 | 45 | 1006,7 | 3438 | 866,4 | 3,48 | 11,89 | 3,00 | 289,1 | 3,29 | 11,83 |
| [°C / °F] | -40 | -40 | 123,2 | 421 | 106,0 | 0,97 | 3,31 | 0,83 | 127,3 | 2,37 | 1,52 |
| cond. pressure | -34 | -30 | 160,9 | 549 | 138,5 | 1,04 | 3,57 | 0,90 | 154,1 | 2,48 | 1,99 |
| pc= 55/131 | -23 | -10 | 274,3 | 937 | 236,1 | 1,30 | 4,44 | 1,12 | 210,9 | 2,78 | 3,42 |
| return gas temp | -15 | 5 | 395,2 | 1350 | 340,1 | 1,56 | 5,34 | 1,35 | 252,7 | 3,04 | 4,97 |
| RGT= 32/90 | -4 | 25 | 608,4 | 2078 | 523,6 | 2,02 | 6,89 | 1,74 | 301,4 | 3,37 | 7,76 |
| liquid temp | 0 | 32 | 697,8 | 2383 | 600,6 | 2,21 | 7,56 | 1,90 | 315,4 | 3,48 | 8,96 |
| Tliq= 55/131 | 7,2 | 45 | 885,6 | 3024 | 762,1 | 2,64 | 9,02 | 2,27 | 335,3 | 3,63 | 11,54 |



KL Compressors

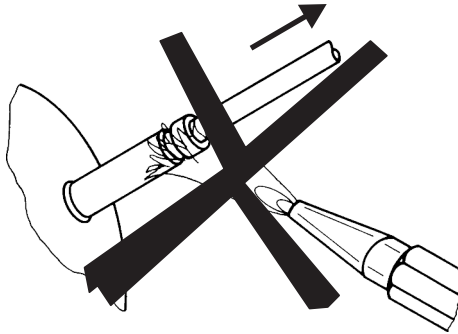




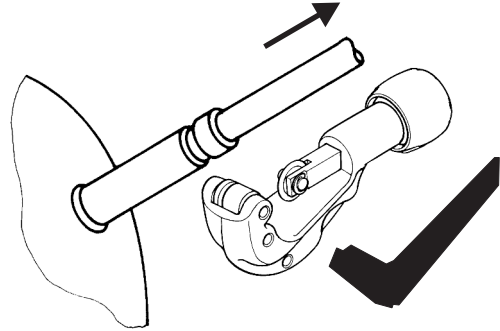
KL Compressors



Service/Repair – R290



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