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| COMPRESSOR MODEL   | CLIENT | VERSION NUMBER | DATE |
|--------------------|--------|----------------|------|
| GATS75AA/220V/50Hz |        |                |      |

R134a HERMETIC COMPRESSOR

# TECHNICAL SPECIFICATION

(MODEL: GATS75AA)

ZHEJIANG BINGFENG COMPRESSOR CO.,LTD

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|                        |        |                |          |
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**Application:**

|                                    |                  |
|------------------------------------|------------------|
| Application                        | LBP              |
| Range of evaporating temperature   | -35 °C to -10 °C |
| Refrigerant                        | R134a            |
| Control device                     | Capillary tube   |
| Compressor cooling                 | Static cooling   |
| Starting torque                    | L.S.T            |
| Max. ambient temperature           | 43 °C            |
| Max. steady condensing temperature | 60 °C            |
| Max. peak condensing temperature   | 70 °C            |
| Max. winding temperature           | 130 °C           |

**Normal Performance**

|                              |        |
|------------------------------|--------|
| Test standard                | ASHRAE |
| Capacity (W)                 | 218    |
| Power consumption (W)        | 136.3  |
| COP (W/W)                    | 1.6    |
| Current (A)                  | 0.72   |
| Noise [dB(A)]                | 42     |
| Vibration(m/s <sup>2</sup> ) | 0.7    |

**Mechanical information**

|                          |                    |          |
|--------------------------|--------------------|----------|
| Displacement             | 7.3cm <sup>3</sup> |          |
| Suction muffler          | Semi-direct        |          |
| Oil                      | Oil type           | Ester    |
|                          | Viscosity          | 22S      |
|                          | Initial charge     | 160±10ml |
|                          | Recharge           | 85%      |
| Weight (with oil charge) | ~7.4kg             |          |

**Motor Data**

|   |                     |
|---|---------------------|
| Motor type                              | RSCR                |
| Capacitance                             | 4 μF                |
| Motor protection                        | External protection |
| Approved voltage range                  | 187-254V            |
| Resistance of main coil (Ω, 25 °C)      | <b>14.5 ± 10%</b>   |
| Resistance of auxiliary coil (Ω, 25 °C) | <b>20.4 ± 10%</b>   |

**Electrical Components**

|                     |               |
|---------------------|---------------|
| Overload protector  | BT75-120A61D2 |
| Rating current      | 7.5A          |
| Opening temperature | 120±5 °C      |

|                        |        |                |          |
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|                      |                 |
|----------------------|-----------------|
| Closing temperature  | 61±9 °C         |
| PTC starting relay   | QP2-15/QP2-15EC |
| Resistance(25 °C)    | 15 ± 20% Ω      |
| Max. working voltage | 350V            |
| Max. working current | 8A              |

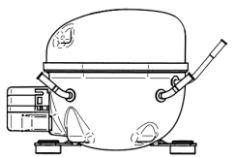
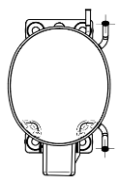
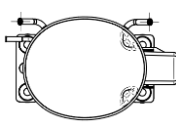
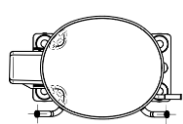

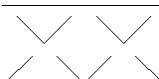
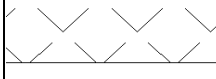
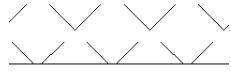
**Exterior character**

|                          |                |                             |
|--------------------------|----------------|-----------------------------|
| Base plate               | 170*70mm       |                             |
| Top bracket or top piece | Optional       |                             |
| Water tray               | Optional       |                             |
| Connection tube          | Suction tube   | Inner-dia.6.1~6.2mm, copper |
|                          | Service tube   | Inner-dia.6.1~6.2mm, copper |
|                          | Discharge tube | Inner-dia 4.9~5.0mm, copper |

**Limit working condition**

|                                  |                      |
|----------------------------------|----------------------|
| Ambient temperature              | 0~43 °C              |
| Range of evaporating temperature | -35 °C to -10 °C     |
| Voltage range                    | 187~254V~/50Hz       |
| Max. discharge pressure          | 1.8 Mpa(gauge)       |
| Max. winding temperature         | 150 °C               |
| Starting capability              | 187V[0.50 MPa (abs)] |

**Packaging and transport**

|                   |   |   |  |   |
|-------------------|---|---|--|---|
| Compressor        |   |   |  |   |
| Shipment position | Upright   | Suction tube up   | Tubes up   | Tubes down  |
|                   |  |  |  |  |
|                   |  |  |  |  |

**Handling during appliance assemble**

|                                  |                           |
|----------------------------------|---------------------------|
| Dry air content                  | 0.3-0.5bar                |
| Non-condensable gas limit        | Max 1%                    |
| Max. opening connection time     | 15min                     |
| Inclination during assemble      | Max. 5°                   |
| Running in vacuum condition      | Not allowed               |
| Use of non-special oil           | Not allowed               |
| Liquid return to compressor      | Not allowed               |
| Max storage time before assemble | 1 year after product date |

|                        |        |                |          |
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### Other recommendation

|  |
|--|
| A impacted compressor can't be used.   |
| Don't use antifreeze.  |
| The refrigeration system must be used for R134a exclusively.   |
| Assure oil return correctly.   |
| Don't start compressor when it is in vacuum state.   |
| Avoid contamination of mineral oil (in vacuum pump) or paraffin.   |
| Any cooling system and assembly parts, parameter, process parameter change related with compressor in the appliances should inform bingfeng. |

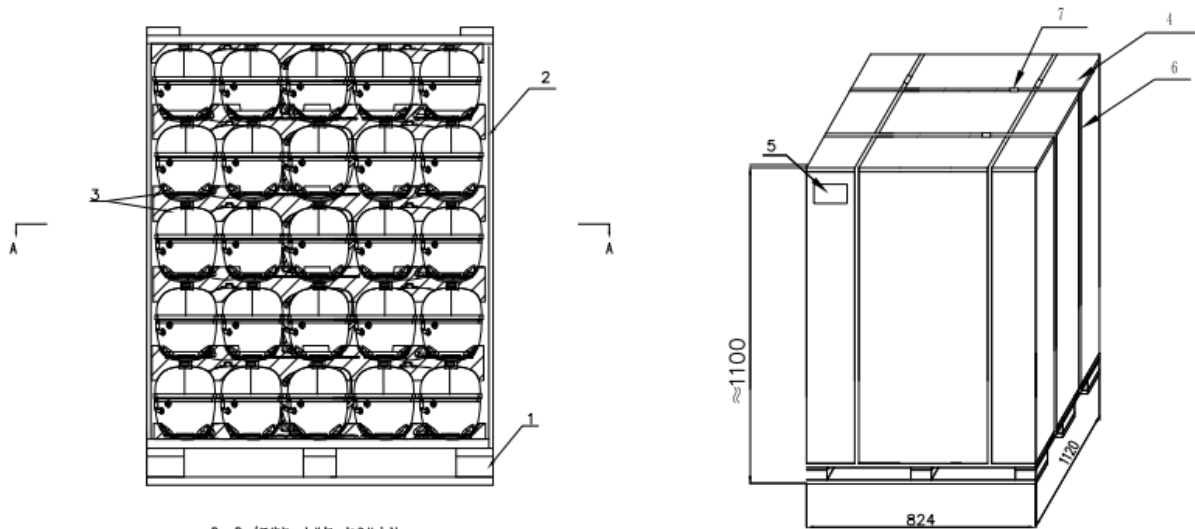
### Accessories

| No. | Designation        | Specification | Quantity |
|-----|--------------------|---------------|----------|
| 1   | Cover              | BFF010003     | 1        |
| 2   | Cover clip         | BFF010004     | 1        |
| 3   | Overload protector | BT75-120A61D2 | 1        |
| 4   | PTC starting relay | QP2-15        | 1        |
| 5   | Earth screw        | M4×8          | 1        |
| 6   | Rubber grommet     | BFF010005     | 4        |
| 7   | Capacitance        | 4 μF          | 1        |
| 8   | Bolt               | M6×30         | 4        |
| 9   | Nut                | M6            | 4        |
| 10  | Bushing            | /             | 4        |
| 11  | Flat washer        | Φ6            | 4        |

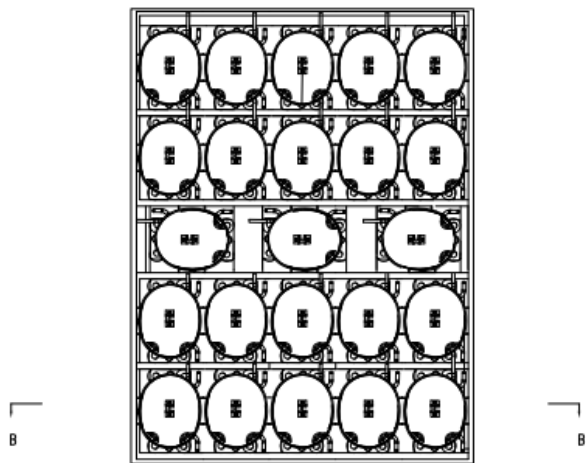
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## Transfortation

115 sets/pallet



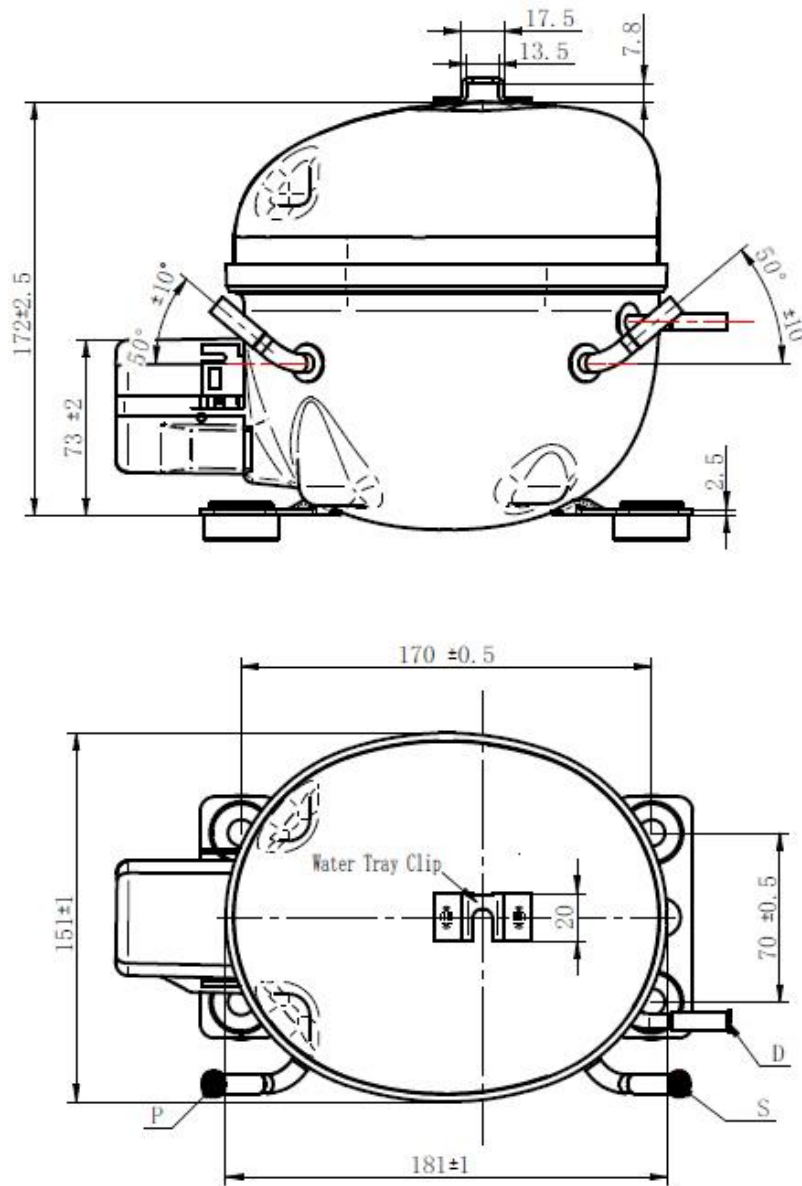
B--B (压缩机, 上盖板, 托盘均未装)



A---A (压缩机不装)

|                        |        |                |          |
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Figure 1: Overall Dimension



| Connecting tube        |                        |                        |
|------------------------|------------------------|------------------------|
| Suction(S)             | Process(P)             | Discharge(D)           |
| Φ6.1~6.2<br>Inner-dia. | Φ6.1~6.2<br>Inner-dia. | Φ4.9~5.0<br>Inner-dia. |

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Figure 2: Mounting Schematic

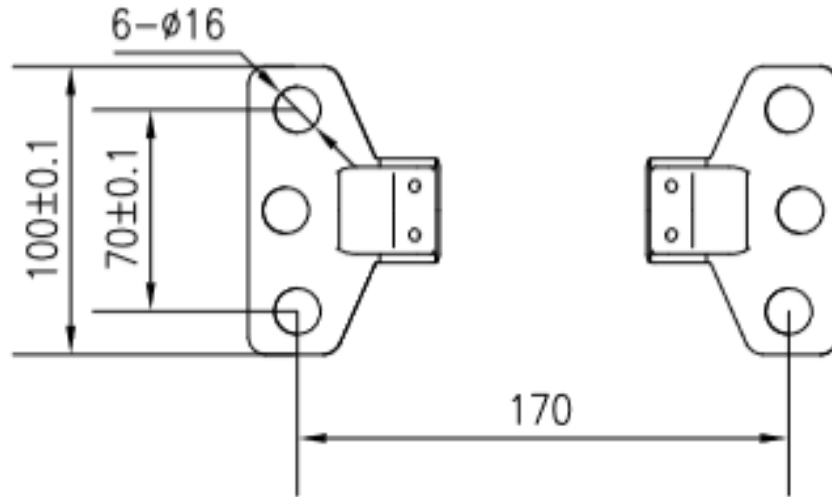
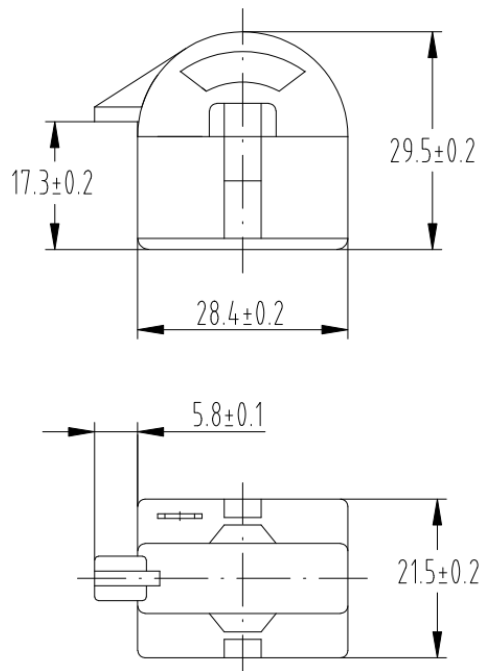


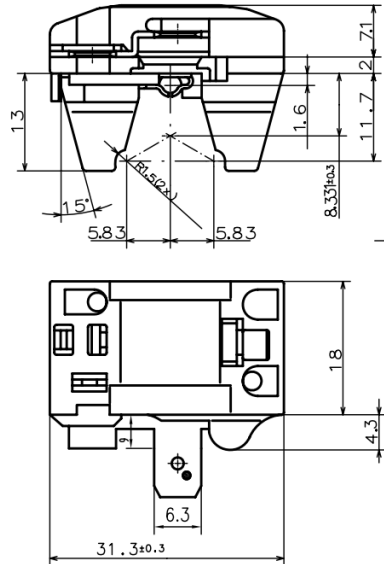
Figure 3: OLP/PTC

QP2-15:

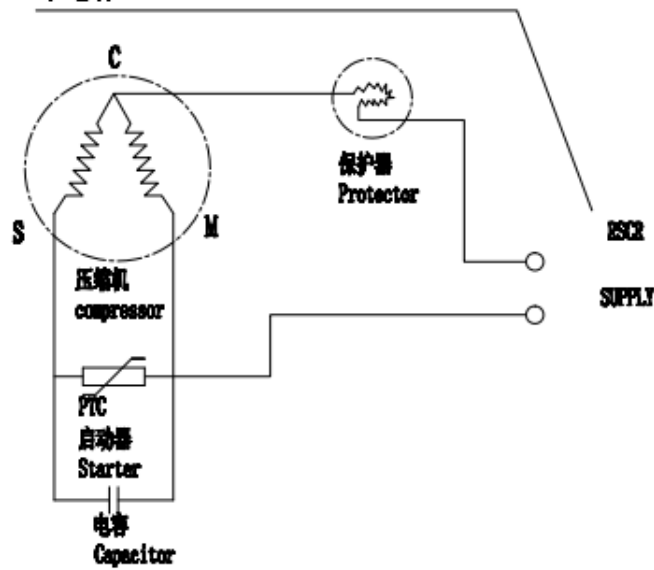


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BT75-120A61D2:



带电容With RC





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Figure 4: Assembly and Accessories

