

Model  
HTK55AA

Sales code:  
16128200

Compressor Data

|                            |                      |
|----------------------------|----------------------|
| Refrigerant(s)             | R600a                |
| Refr. charge - tech. limit | 150g / 5.29oz        |
| Weight                     | 7.80 kg / 17.20lbs   |
| Displacement               | 5.60 cm3 / 0.34cu.in |
| Compressors on pallet      | 100                  |



General – Configurations With HTK55AA

| -                      | Conf. 1         | Conf. 2         |
|------------------------|-----------------|-----------------|
| Motor configuration    | RSIR            | RSCR            |
| Power supply (nominal) | 220-240 V/50 Hz | 220-240 V/50 Hz |
| Number of phases       | 1               | 1               |
| Voltage range          | 187-264 V       | 187-264 V       |
| Approvals              | VDE             | VDE             |
| Starting torque        | LST             | LST             |
| Refrigerant            | R600a           | R600a           |
| Application            | LBP             | LBP             |

Application Notes

- Various options of connectors are possible - please contact SECOP-Sales.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Housing with dip-tray fixture (omega bracket).
- Various options of connectors are possible - please contact SECOP-Sales.

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### Compressor Design

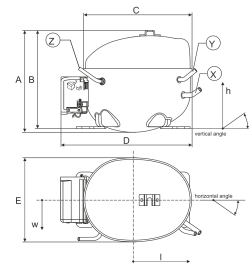
|                       |                                    |                         |               |
|-----------------------|------------------------------------|-------------------------|---------------|
| Oil type              | Mineral                            | Winding resistance main | 33.400 Ohm    |
| Oil viscosity         | 5cSt                               | Winding resistance aux  | 28.50 Ohm     |
| Oil quantity          | 162 / 5.48fl.oz                    | Max. winding temp.      | 130 °C        |
| Free gas volume comp. | 1,500 cm <sup>3</sup> / 50.72fl.oz | Max. discharge temp.    | 130°C / 266°F |
| Motor protection      | external                           |                         |               |

### Compressor Dimensions

#### Housing

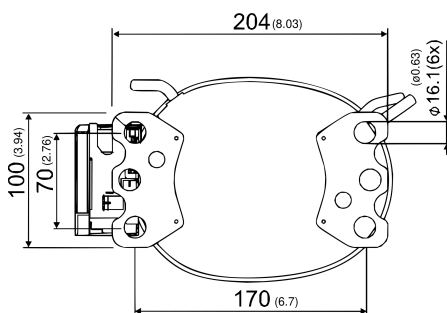
|                   |                |
|-------------------|----------------|
| A Height          | 174mm / 6.85in |
| B Height          | 167mm / 6.57in |
| C Length shell    | 194mm / 7.64in |
| D Length w. cover | 238mm / 9.37in |
| E Width           | 151mm / 5.94in |

[Find 3D Model here](#)



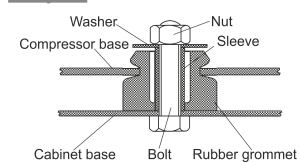
| Connectors            | Suction X                      | Discharge Y                     | Process Z                       |
|-----------------------|--------------------------------|---------------------------------|---------------------------------|
| Diameter [mm]         | øi 6.16–6.24 / 0.24–0.25in     | øi #N/A–#N/A                    | øi 6.11–6.29 / 0.24–0.25in      |
| Material              | CU                             | #N/A                            | CU                              |
| Horizontal angle ±2°  | 54°                            | 35°                             | 45°                             |
| Vertical angle ±2°    | 35°                            | 40°                             | 35°                             |
| Position l/h/w [mm]   | 120/92/56.7 / 4.72/3.62/2.23in | 112/105.5/81 / 4.41/4.15/3.19in | -86/94.3/72 / -3.39/3.71/2.83in |
| Straight tube l. [mm] | 13.5 / 0.53in                  | #N/A                            | 13.5 / 0.53in                   |

### Mounting Accessories

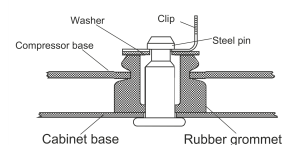


Dimensions in mm [in]

#### Bolt joint



#### Snap-on



|                                             | one comp. | multi pack          |
|---------------------------------------------|-----------|---------------------|
| '4ZN' with rubber grommet                   | –         | 772N                |
| '4ZN' with rubber grommet and sleeve for M6 | –         | 768N                |
| Bolt joint kit                              | –         | 4ZN + 118-1917 (18) |
| '4ZN' with Snap on kit                      | –         | 776N                |

Model

HTK55AA

Configuration 1

Sales code:

16128200

Configuration

|                                  |                    |
|----------------------------------|--------------------|
| Motor configuration              | RSIR               |
| Power supply (nominal)           | 220-240 V/50 Hz 1~ |
| Refrigerant                      | R600a              |
| Application                      | LBP                |
| Voltage range                    | 187-264 V          |
| Starting torque                  | LST                |
| Approvals                        | VDE                |
| Starting device type             | PTC                |
| Run capacitor                    | -/-                |
| Start capacitor                  | -/-                |
| RLA (rated load amps / 1s/ U(N)) | -/-A               |

Ambient/ machine room temperatures minimum /maximum

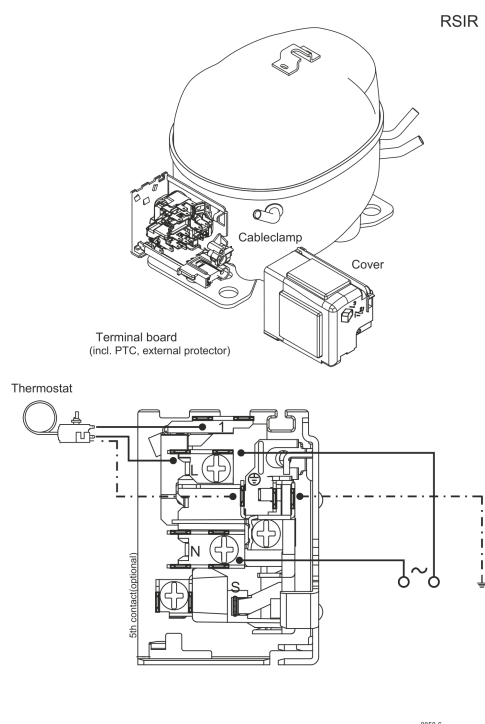
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

static

Electrical Accessories / Wiring Diagram

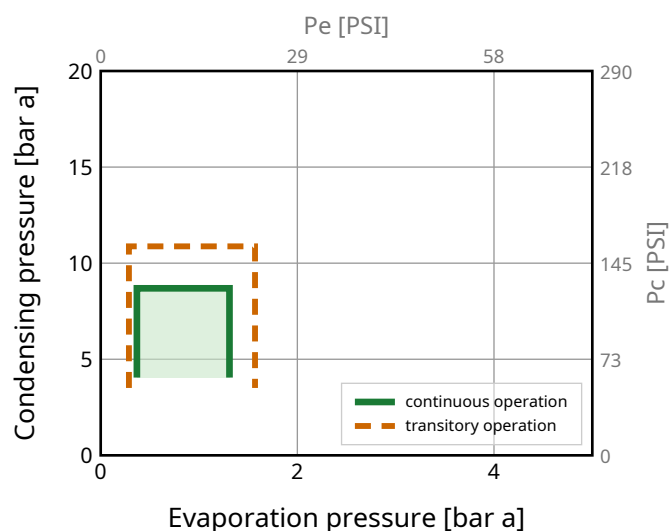
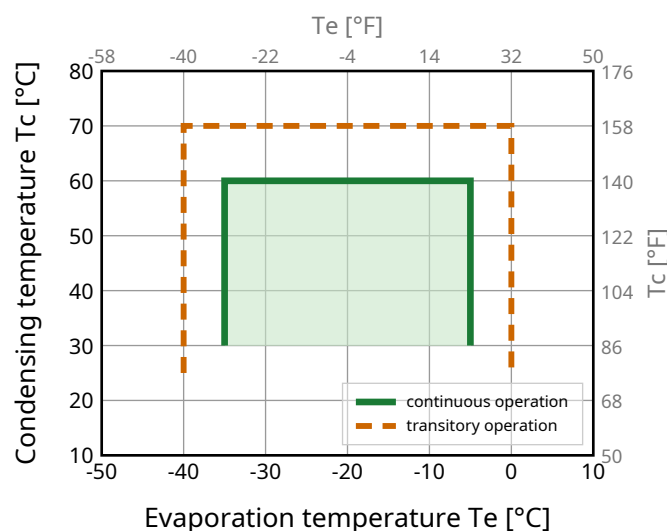


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Components

- . terminal board (PTC, 4.8mm) 15165700
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200
- . screw uni en iso 4757 10641201

Operation Pressure Range



Model  
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Configuration 1

Sales code:  
16128200

Standard Conditions

R600a, 220 V/50 Hz, RSIR, static

| 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    | 93               | 317     | 80       | 1.55  | 5.28     | 60  | 0.40 | 1.00   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 69               | 234     | 59       | 1.20  | 4.09     | 57  | 0.39 | 0.90   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 41               | 140     | 35       | 1.02  | 3.49     | 40  | 0.33 | 0.50   | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 77               | 263     | 66       | 1.31  | 4.49     | 59  | 0.39 | 1.12   | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 103              | 352     | 89       | 1.82  | 6.22     | 57  | 0.39 | 1.11   | AHAM LBP    |
| -25<br>-13   | 45<br>113     | 32<br>89.6   | 45<br>113     | 82               | 279     | 70       | 1.48  | 5.05     | 55  | 0.38 | 0.97   | opt LBP     |

Performance Tables

R600a, 220 V/50 Hz, RSIR, static

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] |
| -35  | -31  | 39               | 132     | 33       | 0.97  | 3.30     | 40  | 0.32 | 0.46   |
| -30  | -22  | 59               | 201     | 51       | 1.23  | 4.19     | 48  | 0.35 | 0.70   |
| -25  | -13  | 82               | 279     | 70       | 1.48  | 5.05     | 55  | 0.38 | 0.97   |
| -20  | -4   | 108              | 368     | 93       | 1.73  | 5.91     | 62  | 0.41 | 1.29   |
| -15  | 5    | 137              | 468     | 118      | 1.99  | 6.77     | 69  | 0.44 | 1.64   |
| -10  | 14   | 170              | 579     | 146      | 2.24  | 7.65     | 76  | 0.47 | 2.03   |
| -5   | 23   | 206              | 703     | 177      | 2.50  | 8.52     | 82  | 0.50 | 2.47   |

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

|     |     |     |     |     |      |      |    |      |      |
|-----|-----|-----|-----|-----|------|------|----|------|------|
| -35 | -31 | 32  | 108 | 27  | 0.80 | 2.72 | 40 | 0.31 | 0.41 |
| -30 | -22 | 48  | 165 | 42  | 1.00 | 3.41 | 48 | 0.35 | 0.63 |
| -25 | -13 | 69  | 234 | 59  | 1.20 | 4.09 | 57 | 0.39 | 0.90 |
| -20 | -4  | 92  | 315 | 79  | 1.40 | 4.77 | 66 | 0.42 | 1.21 |
| -15 | 5   | 120 | 408 | 103 | 1.59 | 5.44 | 75 | 0.46 | 1.56 |
| -10 | 14  | 150 | 513 | 129 | 1.79 | 6.10 | 84 | 0.50 | 1.97 |
| -5  | 23  | 185 | 632 | 159 | 1.98 | 6.75 | 94 | 0.54 | 2.44 |

Model  
HTK55AA

Configuration 2

Sales code:  
16128200

### Configuration

|                                  |                              |
|----------------------------------|------------------------------|
| Motor configuration              | <b>RSCR</b>                  |
| Power supply (nominal)           | <b>220-240 V/50 Hz 1~</b>    |
| Refrigerant                      | <b>R600a</b>                 |
| Application                      | <b>LBP</b>                   |
| Voltage range                    | <b>187-264 V</b>             |
| Starting torque                  | <b>LST</b>                   |
| Approvals                        | <b>VDE</b>                   |
| Starting device type             | <b>PTC</b>                   |
| Run capacitor                    | <b>2.5 <math>\mu</math>F</b> |
| Start capacitor                  | <b>-/-</b>                   |
| RLA (rated load amps / 1s/ U(N)) | <b>-/-A</b>                  |

### Ambient/ machine room temperatures minimum /maximum

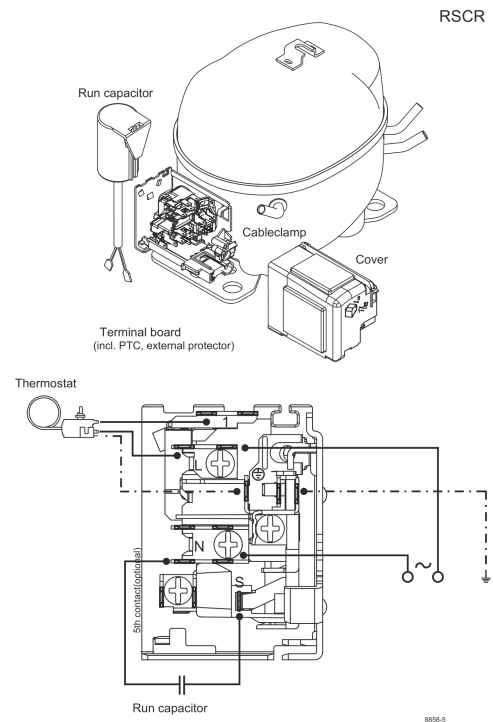
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

### System Cooling

static

### Electrical Accessories / Wiring Diagram



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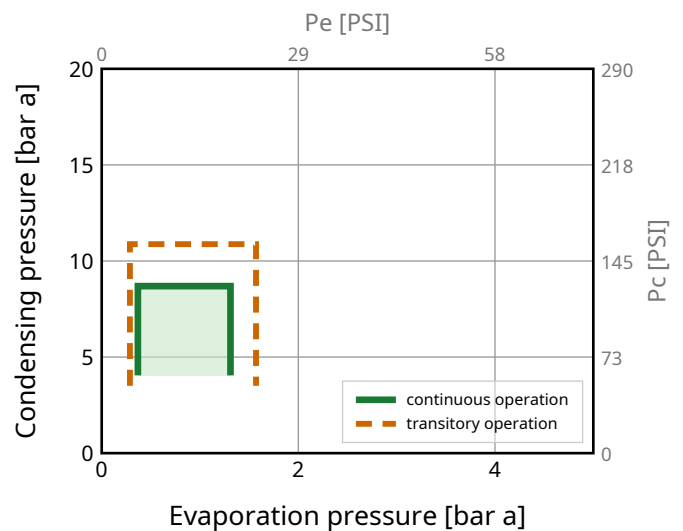
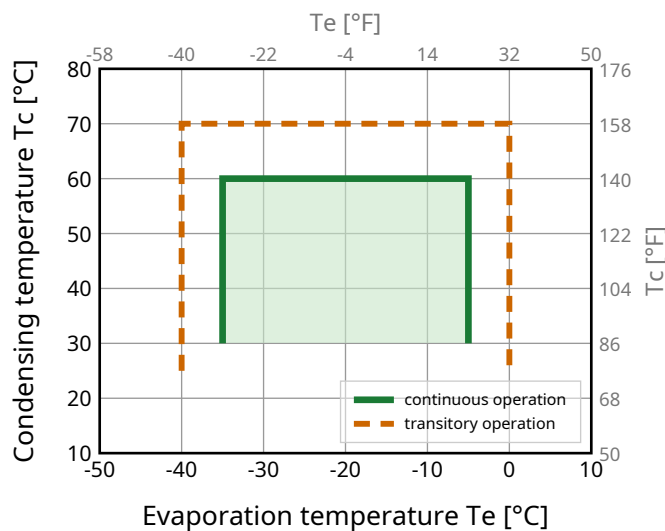
### Components

- . terminal board (PTC, 4.8mm) 15165700
- . run capacitor (2,5 $\mu$ F, 4.8mm) 10692802
- b** cover terminal board 10636401
- . cable clamp 16058100
- . screw - uni6954 10636000
- . screw - uni6954 10636200

### Alternative components

- . screw uni en iso 4757 10641201

### Operation Pressure Range



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Configuration 2

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Standard Conditions

R600a, 220 V/50 Hz, RSCR, static

| 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    | 93               | 317     | 80       | 1.61  | 5.48     | 58  | 0.29 | 1.00   | ASHRAE LBP  |
| -25<br>-13   | 55<br>131     | 32<br>89.6   | 55<br>131     | 69               | 234     | 59       | 1.25  | 4.25     | 55  | 0.28 | 0.90   | CECOMAF LBP |
| -35<br>-31   | 40<br>104     | 20<br>68     | 40<br>104     | 41               | 140     | 35       | 1.08  | 3.68     | 38  | 0.24 | 0.50   | EN12900 LBP |
| -23.3<br>-10 | 48.8<br>119.8 | 4.4<br>39.9  | 48.8<br>119.8 | 77               | 263     | 66       | 1.36  | 4.64     | 57  | 0.29 | 1.12   | ARI540 LBP  |
| -23.3<br>-10 | 40.6<br>105.1 | 32.2<br>90   | 32.2<br>90    | 103              | 352     | 89       | 1.88  | 6.41     | 55  | 0.28 | 1.11   | AHAM LBP    |
| -25<br>-13   | 45<br>113     | 32<br>89.6   | 45<br>113     | 82               | 279     | 70       | 1.53  | 5.22     | 54  | 0.28 | 0.97   | opt LBP     |

Performance Tables

R600a, 220 V/50 Hz, RSCR, static

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] |
| -35  | -31  | 39               | 132     | 33       | 1.01  | 3.46     | 38  | 0.24 | 0.46   |
| -30  | -22  | 59               | 201     | 51       | 1.28  | 4.36     | 46  | 0.26 | 0.70   |
| -25  | -13  | 82               | 279     | 70       | 1.53  | 5.22     | 54  | 0.28 | 0.97   |
| -20  | -4   | 108              | 368     | 93       | 1.78  | 6.09     | 60  | 0.30 | 1.29   |
| -15  | 5    | 137              | 468     | 118      | 2.04  | 6.96     | 67  | 0.32 | 1.64   |
| -10  | 14   | 170              | 579     | 146      | 2.30  | 7.83     | 74  | 0.34 | 2.03   |
| -5   | 23   | 206              | 703     | 177      | 2.55  | 8.70     | 81  | 0.36 | 2.47   |

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

|     |     |     |     |     |      |      |    |      |      |
|-----|-----|-----|-----|-----|------|------|----|------|------|
| -35 | -31 | 32  | 108 | 27  | 0.84 | 2.85 | 38 | 0.23 | 0.41 |
| -30 | -22 | 48  | 165 | 42  | 1.04 | 3.56 | 47 | 0.26 | 0.63 |
| -25 | -13 | 69  | 234 | 59  | 1.25 | 4.25 | 55 | 0.28 | 0.90 |
| -20 | -4  | 92  | 315 | 79  | 1.45 | 4.94 | 64 | 0.31 | 1.21 |
| -15 | 5   | 120 | 408 | 103 | 1.65 | 5.63 | 72 | 0.34 | 1.56 |
| -10 | 14  | 150 | 513 | 129 | 1.85 | 6.30 | 81 | 0.37 | 1.97 |
| -5  | 23  | 185 | 632 | 159 | 2.04 | 6.95 | 91 | 0.40 | 2.44 |