

## Single Pack HXK80AA\_F 220-240V 50Hz RSIR

Single pack code number: **195B4665**

| Position | Title  | Code     | Amount |
|----------|--|----------|--------|
| 1        | Compressor HXK80AA_F                                       | 16414500 | 1      |
| 2        | Sleeve   | 10631600 | 4      |
| 3        | Screw for cable clamp                                      | 10636000 | 1      |
| 4        | Screw for cable clamp                                      | 10636200 | 1      |
| 5        | Cover  | 10636401 | 1      |
| 6        | Earth screw  | 10641201 | 1      |
| 7        | Rubber grommet 16mm  | 11322600 | 4      |
| 8        | Cable clamp  | 11341000 | 1      |
| 9        | e-PTC starting device (240V, overload protector AE24FW6F4) | 15619800 | 1      |

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## Model

|             |                |                  |             |                 |
|-------------|----------------|------------------|-------------|-----------------|
| Designation | <b>HXK80AA</b> | 220-240V/50Hz 1~ | Sales code: | <b>16414500</b> |
|-------------|----------------|------------------|-------------|-----------------|

## Compressor design

|                            |                                 |                       |                                |
|----------------------------|---------------------------------|-----------------------|--------------------------------|
| Oil type                   | Mineral                         | Refrigerant(s)        | <b>R600a</b>                   |
| Oil viscosity              | 5cST                            | Displacement          | 8,1cm <sup>3</sup> / 0,49cu.in |
| Oil quantity               | 162cm <sup>3</sup> / 5,5fl.oz   | Compressors on pallet | 100                            |
| Refr. charge - tech. limit | 150g / 5,3oz                    |                       |                                |
| Free gas volume comp.      | 1620cm <sup>3</sup> / 54,8fl.oz |                       |                                |
| Weight                     | 9kg / 19,8lbs                   |                       |                                |
| Motor protection           | external                        |                       |                                |
| Winding resistance main    | 27,7Ω (at 25°C)                 |                       |                                |
| Winding resistance aux     | 18,8Ω (at 25°C)                 |                       |                                |
| Max. winding temp.         | 130°C / 266°F                   |                       |                                |
| Max. discharge temp.       | 130°C / 266°F                   |                       |                                |



## General - Configurations with HXK80AA

|                        | <b>Conf. 1</b>   | <b>Conf. 2</b> |
|------------------------|--|----------------|
| Motorconfiguration     | eRSCR  | RSCR           |
| Power supply (nominal) | 220-240V/50Hz  | 220-240V/50Hz  |
| Number of phases       | 1  | 1              |
| Voltage range          | 187-264V   | 187-264V       |
| Approvals              | VDE  | VDE            |
| Starting torque        | LST  | LST            |
| Note                   | Various options of connectors are possible - please contact SECOP-Sales. |                |

## Applications with HXK80AA

|                         | <b>Conf. 1</b> | <b>Conf. 2</b> |
|-------------------------|----------------|----------------|
| Refrigerant             | R600a          | R600a          |
| Application             | LBP            | LBP            |
| System cooling          | static         | static         |
| Hot gas defrost         | -/-            | -/-            |
| Long interval pull down | -/-            | -/-            |

## Electrical data - Configurations with HXK80AA

|                                    | <b>Conf. 1</b> | <b>Conf. 2</b> |
|------------------------------------|----------------|----------------|
| Starting device type               | e-PTC          | PTC            |
| Run capacitor                      | 3μF            | 3μF            |
| Start capacitor                    | -/-            | -/-            |
| LRA (locked rotor amps / 4s/ U(N)) |                |                |
| RLA (rated load amps / 1s/ U(N))   | -/-A           | -/-A           |
| Cut in current (U(N))              |                |                |

## Model

Designation

**HXK80AA**

220-240V/50Hz 1~

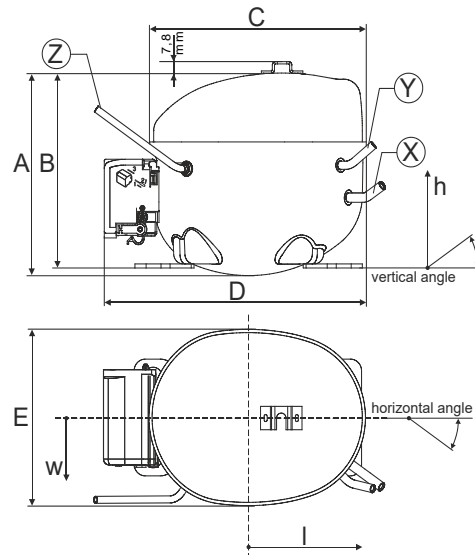
Sales code:

**16414500**

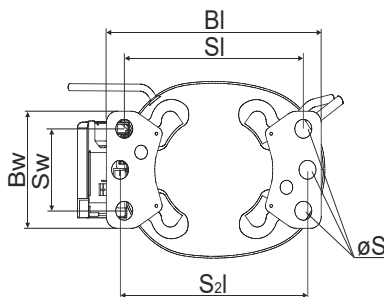
## Compressor dimensions

| 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 |

| Connectors            |      | Suction      | Discharge   | Process      |
|-----------------------|------|--------------|-------------|--------------|
|                       |      | X            | Y           | Z            |
| Diameter              | [mm] | øi 6,1-6,2   | øi 5,1-5,2  | øo 5,92-6,08 |
| (i:inside, o:outside) | [in] | øi 0,24-0,24 | øi 0,2-0,2  | øo 0,23-0,24 |
| Material              |      | copper       | copper      | copper       |
| Horizontal angle      | ±2°  | 45°          | 13°         | 0°           |
| Vertical angle        | ±2°  | 30°          | 40°         | 145°         |
| Position l/h/w        | [mm] | 120/72/62    | 112/106/62  | -140/136/70  |
|                       | [in] | 4,7/2,8/2,4  | 4,4/4,2/2,4 | -5,5/5,4/2,8 |
| Straight tube l.      | [mm] | 14           | 14          | 75           |
|                       | [in] | 0,5          | 0,5         | 3            |

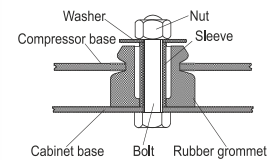


## Compressor fixation

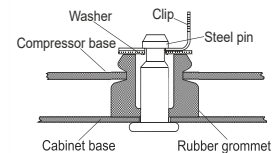


| Baseplate   | [mm] | [inch] |
|-------------|------|--------|
| BI          | 204  | 8,03   |
| BW          | 100  | 3,94   |
| Small holes | [mm] | [inch] |
| SI          | 170  | 6,7    |
| SW          | 70   | 2,76   |
| S2l         | 178  | 7      |
| øS          | ø 16 | ø 0.63 |

## Bolt joint



## Snap-on



## Mounting accessories

'4ZN' with rubber grommet

order code

772N

'4ZN' with rubber grommet and sleeve for M6

768N

Bolt joint kit

4ZN + 118-1917 (18)

'4ZN' with Snap on kit

776N

## Application notes

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.

## Model

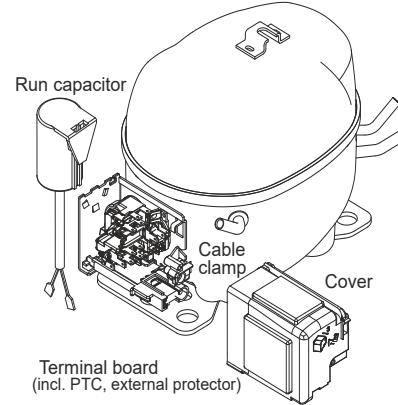
|             |                |                      |         |             |                 |
|-------------|----------------|----------------------|---------|-------------|-----------------|
| Designation | <b>HXK80AA</b> | <b>220-240V/50Hz</b> | Conf. 1 | Sales code: | <b>16414500</b> |
|-------------|----------------|----------------------|---------|-------------|-----------------|

## Configuration

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | eRSCR            |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R600a            |
| Application            | LBP              |
| Voltage range          | 187-264V         |
| Starting torque        | LST              |
| Approvals              | VDE              |

## Electrical accessories / wiring diagram

**RSCR**

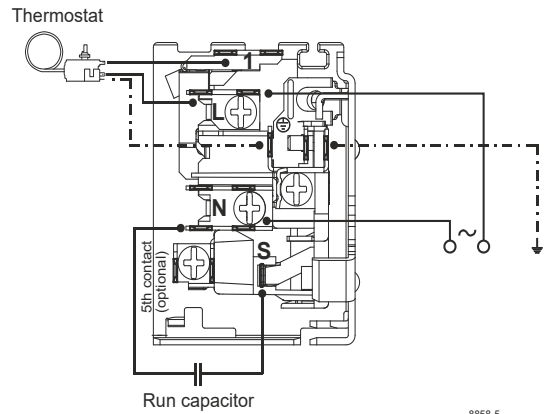


## Ambient/ machine room temperatures minimum /maximum

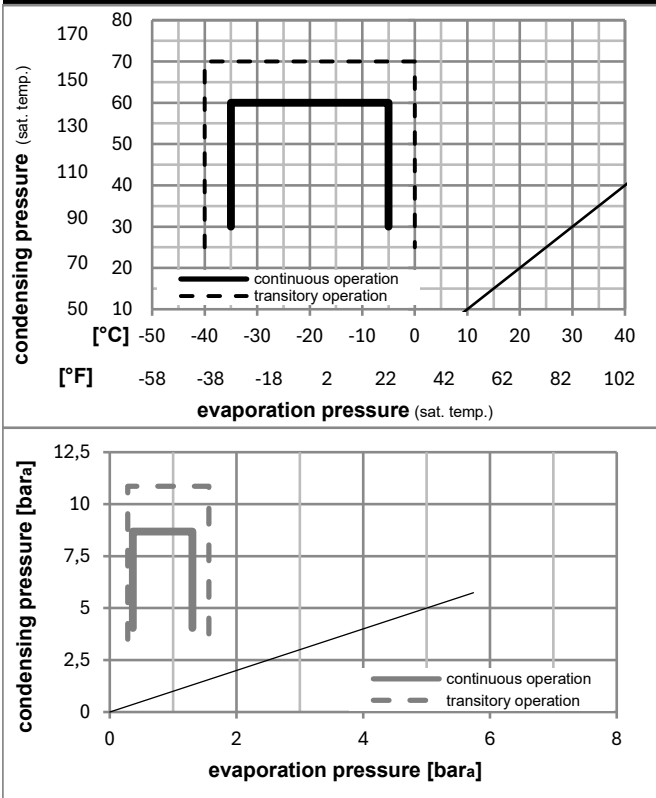
Ambient temperature range: 10 - 43°C / 50 - 110°F

Machine room temperature range: 10 - 48°C / 50 - 119°F

Compressor cooling: static



## Operation pressure range



## Components

|                                     |          |
|-------------------------------------|----------|
| . terminal board (e-PTC, 4.8mm)     | 15619800 |
| . run capacitor (3μF, 4.8mm)        | 10692902 |
| b cover terminal board              | 10636401 |
| . Cable clamp (screws not included) | 11341000 |
| . screw - uni6954                   | 10636000 |
| . screw - uni6954                   | 10636200 |

## Alternative components

|                              |          |
|------------------------------|----------|
| . run capacitor (3μF, 4.8mm) | 10693200 |
| . screw uni en iso 4757      | 10641201 |

## Model

Designation **HXK80AA** **220-240V/50Hz** Conf. 1 Sales code: **16414500**

## Optimization + standard conditions

R600a, 220V/50Hz, eRSCR, static, VDE

|   | pe   | pc   | RGT  | Tliq | Cooling capacity | COP   | EER      | P1   | I    | Ref. mass flow |             |
|---|------|------|------|------|------------------|-------|----------|------|------|----------------|-------------|
|   | [°C] | [°C] | [°C] | [°C] | [W]              | [W/W] | [Btu/Wh] | [W]  | [A]  | [kg/h]         |             |
| Evaporating pressure (saturation temperature) | -23  | 54   | 32   | 32   | 140,0            | 1,90  | 6,48     | 73,7 | 0,35 | 1,50           | ASHRAE LBP  |
| Condensing pressure (saturation temperature)  | -10  | 130  | 90   | 90   | 478              | 1,90  | 6,48     | 73,7 | 0,35 | 1,50           |             |
| Return gas temp.                              |      |      |      |      |                  |       |          |      |      |                | cecomaf LBP |
| Liquid temp.                                  |      |      |      |      |                  |       |          |      |      |                |             |
|   | -25  | 55   | 32   | 55   | 105,0            | 1,49  | 5,09     | 70,4 | 0,34 | 1,37           | EN12900 LBP |
|   | -13  | 131  | 90   | 131  | 359              | 1,49  | 5,09     | 70,4 | 0,34 | 1,37           |             |
|   | -35  | 40   | 20   | 40   | 72,5             | 1,42  | 4,85     | 51,0 | 0,27 | 0,88           | ARI540 LBP  |
|   | -31  | 104  | 68   | 104  | 247              | 1,42  | 4,85     | 51,0 | 0,27 | 0,88           |             |
|   | -23  | 49   | 4,4  | 49   | 113,6            | 1,58  | 5,39     | 71,9 | 0,34 | 1,66           | AHAM LBP    |
|   | -10  | 120  | 40   | 120  | 388              | 1,58  | 5,39     | 71,9 | 0,34 | 1,66           |             |
|   | -23  | 41   | 32   | 32   | 149,6            | 2,15  | 7,35     | 69,5 | 0,33 | 1,61           | opt         |
|   | -10  | 105  | 90   | 90   | 511              | 2,15  | 7,35     | 69,5 | 0,33 | 1,61           |             |
|   | -35  | 45   | 32   | 45   | 69,0             | 1,35  | 4,61     | 51,2 | 0,28 | 0,82           | opt         |
|   | -31  | 113  | 90   | 113  | 236              | 1,35  | 4,61     | 51,2 | 0,28 | 0,82           |             |

## Performance tables

R600a, 220V/50Hz, eRSCR, static, VDE

|                  | 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]        | -35  | -31              | 69,0  | 236     | 59,4     | 1,35  | 4,61     | 1,16      | 51,2  | 0,28 | 0,82   |
| cond. pressure   | -30  | -22              | 92,7  | 317     | 79,8     | 1,57  | 5,37     | 1,35      | 59,0  | 0,30 | 1,10   |
| pc= 45/113       | -25  | -13              | 121,4 | 415     | 104,5    | 1,79  | 6,13     | 1,54      | 67,7  | 0,33 | 1,45   |
| return gas temp. | -23  | -10              | 132,3 | 452     | 113,9    | 1,87  | 6,38     | 1,61      | 70,8  | 0,34 | 1,58   |
| RGT= 32/90       | -20  | -4               | 155,2 | 530     | 133,6    | 2,01  | 6,88     | 1,73      | 77,1  | 0,36 | 1,85   |
| liquid temp      | -15  | 5                | 194,0 | 663     | 167,0    | 2,23  | 7,63     | 1,92      | 86,9  | 0,39 | 2,32   |
| Tliq= 45/113     | -5   | 23               | 286,6 | 979     | 246,7    | 2,69  | 9,18     | 2,31      | 106,7 | 0,48 | 3,44   |
| [°C / °F]        | -35  | -31              | 57,8  | 197     | 49,8     | 1,12  | 3,83     | 0,97      | 51,5  | 0,28 | 0,75   |
| cond. pressure   | -30  | -22              | 78,9  | 269     | 67,9     | 1,31  | 4,46     | 1,12      | 60,4  | 0,31 | 1,03   |
| pc= 55/131       | -25  | -13              | 105,0 | 359     | 90,4     | 1,49  | 5,09     | 1,28      | 70,4  | 0,34 | 1,37   |
| return gas temp  | -23  | -10              | 115,0 | 393     | 99,0     | 1,55  | 5,31     | 1,34      | 74,0  | 0,35 | 1,50   |
| RGT= 32/90       | -20  | -4               | 136,1 | 465     | 117,2    | 1,67  | 5,72     | 1,44      | 81,3  | 0,38 | 1,78   |
| liquid temp      | -15  | 5                | 172,3 | 588     | 148,2    | 1,86  | 6,34     | 1,60      | 92,8  | 0,42 | 2,26   |
| Tliq= 55/131     | -5   | 23               | 259,4 | 886     | 223,2    | 2,23  | 7,60     | 1,92      | 116,6 | 0,52 | 3,41   |

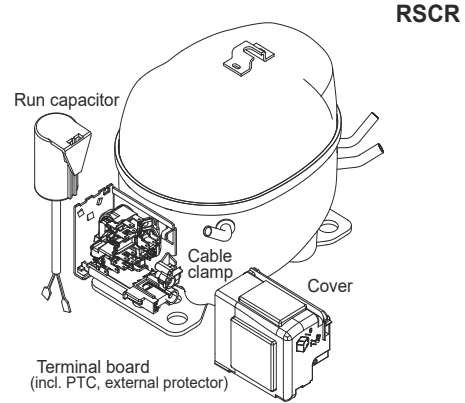
## Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>HXK80AA</b> | <b>220-240V/50Hz</b> | <b>Conf. 2</b> | Sales code: | <b>16414500</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

## Configuration

|                        |                  |
|------------------------|------------------|
| Motorconfiguration     | RSCR             |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant            | R600a            |
| Application            | LBP              |
| Voltage range          | 187-264V         |
| Starting torque        | LST              |
| Approvals              | VDE              |

## Electrical accessories / wiring diagram



## 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:             | static                 |

## Operation pressure range



## Components

|                                     |          |
|-------------------------------------|----------|
| . terminal board (PTC, 4.8mm)       | 15661200 |
| . run capacitor (3μF, 4.8mm)        | 10692902 |
| b cover terminal board              | 10636401 |
| . Cable clamp (screws not included) | 11341000 |
| . screw - uni6954                   | 10636000 |
| . screw - uni6954                   | 10636200 |

## Alternative components

|                              |          |
|------------------------------|----------|
| . run capacitor (3μF, 4.8mm) | 10693200 |
| . screw uni en iso 4757      | 10641201 |

### Model

|             |                |                      |                |             |                 |
|-------------|----------------|----------------------|----------------|-------------|-----------------|
| Designation | <b>HXK80AA</b> | <b>220-240V/50Hz</b> | <b>Conf. 2</b> | Sales code: | <b>16414500</b> |
|-------------|----------------|----------------------|----------------|-------------|-----------------|

### Optimization + standard conditions

R600a, 220V/50Hz, RSCR, static, VDE

|             | pe   | pc   | RGT  | Tliq | Cooling capacity | COP   | EER      | P1   | I    | Ref. mass flow |  |
|-------------|------|------|------|------|------------------|-------|----------|------|------|----------------|--|
|             | [°C] | [°C] | [°C] | [°C] | [W]              | [W/W] | [Btu/Wh] | [W]  | [A]  | [kg/h]         |  |
| ASHRAE LBP  | -23  | 54   | 32   | 32   | 140,0            | 1,90  | 6,48     | 73,7 | 0,35 | 1,50           |  |
|             | [°F] |      |      |      | [Btu/h]          |       | [kcal/h] |      |      |                |  |
|             | -10  | 130  | 90   | 90   | 478              | 1,90  | 6,48     | 73,7 | 0,35 | 1,50           |  |
| cecomaf LBP | -25  | 55   | 32   | 55   | 105,0            | 1,49  | 5,09     | 70,4 | 0,34 | 1,37           |  |
|             | [°F] |      |      |      | [W]              |       | [kcal/h] |      |      |                |  |
|             | -13  | 131  | 90   | 131  | 359              | 1,49  | 5,09     | 70,4 | 0,34 | 1,37           |  |
| EN12900 LBP | -35  | 40   | 20   | 40   | 72,5             | 1,42  | 4,85     | 51,0 | 0,27 | 0,88           |  |
|             | [°F] |      |      |      | [W]              |       | [kcal/h] |      |      |                |  |
|             | -31  | 104  | 68   | 104  | 247              | 1,42  | 4,85     | 51,0 | 0,27 | 0,88           |  |
| ARI540 LBP  | -23  | 49   | 4,4  | 49   | 113,6            | 1,58  | 5,39     | 71,9 | 0,34 | 1,66           |  |
|             | [°F] |      |      |      | [W]              |       | [kcal/h] |      |      |                |  |
|             | -10  | 120  | 40   | 120  | 388              | 1,58  | 5,39     | 71,9 | 0,34 | 1,66           |  |
| AHAM LBP    | -23  | 41   | 32   | 32   | 149,6            | 2,15  | 7,35     | 69,5 | 0,33 | 1,61           |  |
|             | [°F] |      |      |      | [W]              |       | [kcal/h] |      |      |                |  |
|             | -10  | 105  | 90   | 90   | 511              | 2,15  | 7,35     | 69,5 | 0,33 | 1,61           |  |
| opt         | -35  | 45   | 32   | 45   | 69,0             | 1,35  | 4,61     | 51,2 | 0,28 | 0,82           |  |
|             | [°F] |      |      |      | [W]              |       | [kcal/h] |      |      |                |  |
|             | -31  | 113  | 90   | 113  | 236              | 1,35  | 4,61     | 51,2 | 0,28 | 0,82           |  |

### Performance tables

R600a, 220V/50Hz, RSCR, static, VDE

|                  | 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]        | -35  | -31              | 69,0  | 236     | 59,4     | 1,35  | 4,61     | 1,16      | 51,2  | 0,28 | 0,82   |
| cond. pressure   | -30  | -22              | 92,7  | 317     | 79,8     | 1,57  | 5,37     | 1,35      | 59,0  | 0,30 | 1,10   |
| pc= 45/113       | -25  | -13              | 121,4 | 415     | 104,5    | 1,79  | 6,13     | 1,54      | 67,7  | 0,33 | 1,45   |
| return gas temp. | -23  | -10              | 132,3 | 452     | 113,9    | 1,87  | 6,38     | 1,61      | 70,8  | 0,34 | 1,58   |
| RGT= 32/90       | -20  | -4               | 155,2 | 530     | 133,6    | 2,01  | 6,88     | 1,73      | 77,1  | 0,36 | 1,85   |
| liquid temp      | -15  | 5                | 194,0 | 663     | 167,0    | 2,23  | 7,63     | 1,92      | 86,9  | 0,39 | 2,32   |
| Tliq= 45/113     | -5   | 23               | 286,6 | 979     | 246,7    | 2,69  | 9,18     | 2,31      | 106,7 | 0,48 | 3,44   |
| [°C / °F]        | -35  | -31              | 57,8  | 197     | 49,8     | 1,12  | 3,83     | 0,97      | 51,5  | 0,28 | 0,75   |
| cond. pressure   | -30  | -22              | 78,9  | 269     | 67,9     | 1,31  | 4,46     | 1,12      | 60,4  | 0,31 | 1,03   |
| pc= 55/131       | -25  | -13              | 105,0 | 359     | 90,4     | 1,49  | 5,09     | 1,28      | 70,4  | 0,34 | 1,37   |
| return gas temp  | -23  | -10              | 115,0 | 393     | 99,0     | 1,55  | 5,31     | 1,34      | 74,0  | 0,35 | 1,50   |
| RGT= 32/90       | -20  | -4               | 136,1 | 465     | 117,2    | 1,67  | 5,72     | 1,44      | 81,3  | 0,38 | 1,78   |
| liquid temp      | -15  | 5                | 172,3 | 588     | 148,2    | 1,86  | 6,34     | 1,60      | 92,8  | 0,42 | 2,26   |
| Tliq= 55/131     | -5   | 23               | 259,4 | 886     | 223,2    | 2,23  | 7,60     | 1,92      | 116,6 | 0,52 | 3,41   |



# K-Series Compressors

## GTK, HKK, HMK, HTK, HXK, HZK



### Service/Repair – R600a

8545-2





# K-Series Compressors

## GTK, HKK, HMK, HTK, HXK, HZK



### Service/Repair – R600a

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