

Compressor Technical Data

Model: NEK2134U

Code: 862AA51

Description

| | | | |
|-----------------|------------------------|----------------------------------|----------|
| Refrigerant: | R-290 | Displacement (cm ³): | 9,99 |
| Voltage: | 220-240 V 50 Hz 1 ~ | Lubricant Type: | ISO22 |
| Frequency (Hz): | 50 | Lubricant Charge (ml): | 350 |
| Application: | LBP | Motor Type: | CSIR |
| HP: | 1/2 | Starting Torque: | HST |
| Efficiency: | 4,65 | Type of Test: | ASHRAE32 |
| Capacity: | 1533,00 | | |

Approval

CCC

VDE

Data

External Features

| | Shape | Material | Diameter (mm) |
|---------------------|-------------|----------|---------------|
| Suction Connector | Slanted 42° | Copper | 8,10 |
| Discharge Connector | Straight | Copper | 6,10 |
| Process Connector | Slanted 42° | Copper | 6,10 |

| | |
|--------------|-------------------|
| Oil Cooler: | |
| Base Plate: | European Standard |
| Tray Holder: | No |
| Weight (kg): | 11,00 |

Application

| | |
|-----------------------------------|------------------|
| Maximum ambient temperature (°C): | 43 |
| Expansion device: | Capillary/ Valve |
| Cooling: | Fan Cooling |
| Air flow rate: | |

Mechanical Data

| | |
|--------------------|----------------------|
| Bill of materials: | 862AA51 |
| Starting torque: | High Starting Torque |
| Bore (mm): | 26,50 |
| Stroke (mm): | 9,06 |
| Weight (kg): | 11,00 |

Electrical Data

| | |
|------------------------------------|-------|
| Motor type: | CSIR |
| Winding Resistance (25°C) - Start: | 6,18 |
| Winding Resistance (25°C) - Run: | 30,56 |

Check Point - Condensing Temperature 54,4 °C

| Evaporating Temperature | Cooling Capacity | | | Power Consumption +/- 5% | Current Consumption +/-5% | Efficiency +/-7% | | |
|-------------------------|------------------|----------|-------|--------------------------|---------------------------|------------------|------|------|
| | (°C) | (kcal/h) | (W) | | | (Btu/h) | (W) | (A) |
| -23,3 | 388 | 452 | 1.541 | 329 | 2,03 | 1,18 | 1,37 | 4,68 |

Condensing Temperature 35 °C

| Evaporating Temperature | Cooling Capacity | | | Power Consumption +/- 5% | Current Consumption +/-5% | Gas Flow Rate +/- 5% | Efficiency +/-7% | | |
|-------------------------|------------------|----------|-------|--------------------------|---------------------------|----------------------|------------------|------|------|
| | (°C) | (kcal/h) | (W) | | | | (Btu/h) | (W) | (A) |
| -40 | 211 | 245 | 836 | 176 | 1,28 | 2,47 | 1,19 | 1,39 | 4,74 |
| -35 | 256 | 297 | 1.015 | 216 | 1,45 | 3,00 | 1,18 | 1,37 | 4,69 |
| -30 | 319 | 371 | 1.266 | 253 | 1,62 | 3,75 | 1,26 | 1,47 | 5,01 |
| -25 | 400 | 466 | 1.589 | 285 | 1,77 | 4,73 | 1,41 | 1,64 | 5,58 |
| -20 | 500 | 582 | 1.985 | 313 | 1,92 | 5,92 | 1,60 | 1,86 | 6,34 |
| -15 | 618 | 719 | 2.452 | 338 | 2,05 | 7,35 | 1,83 | 2,13 | 7,26 |
| -10 | 754 | 876 | 2.990 | 358 | 2,19 | 9,00 | 2,10 | 2,45 | 8,35 |

Condensing Temperature 45 °C

| Evaporating Temperature | Cooling Capacity | | | Power Consumption +/- 5% | Current Consumption +/-5% | Gas Flow Rate +/- 5% | Efficiency +/-7% | | |
|-------------------------|------------------|----------|-------|--------------------------|---------------------------|----------------------|------------------|------|------|
| | (°C) | (kcal/h) | (W) | | | | (Btu/h) | (W) | (A) |
| -40 | 200 | 232 | 792 | 193 | 1,38 | 2,34 | 1,03 | 1,20 | 4,10 |
| -35 | 242 | 281 | 960 | 231 | 1,56 | 2,84 | 1,05 | 1,22 | 4,16 |
| -30 | 302 | 351 | 1.198 | 267 | 1,72 | 3,55 | 1,13 | 1,32 | 4,49 |
| -25 | 379 | 441 | 1.505 | 301 | 1,88 | 4,48 | 1,26 | 1,46 | 5,00 |
| -20 | 474 | 552 | 1.882 | 334 | 2,03 | 5,62 | 1,42 | 1,65 | 5,64 |
| -15 | 587 | 682 | 2.328 | 365 | 2,17 | 6,97 | 1,61 | 1,87 | 6,38 |
| -10 | 716 | 833 | 2.843 | 394 | 2,31 | 8,55 | 1,82 | 2,11 | 7,21 |

Condensing Temperature 55 °C

| Evaporating Temperature | Cooling Capacity | | | Power Consumption +/- 5% | Current Consumption +/-5% | Gas Flow Rate +/- 5% | Efficiency +/-7% | | |
|-------------------------|------------------|----------|-------|--------------------------|---------------------------|----------------------|------------------|------|------|
| | (°C) | (kcal/h) | (W) | | | | (Btu/h) | (W) | (A) |
| -40 | 189 | 219 | 748 | 210 | 1,48 | 2,21 | 0,90 | 1,05 | 3,57 |
| -35 | 228 | 265 | 905 | 245 | 1,66 | 2,68 | 0,93 | 1,08 | 3,69 |
| -30 | 285 | 331 | 1.130 | 281 | 1,83 | 3,35 | 1,01 | 1,18 | 4,02 |
| -25 | 358 | 416 | 1.421 | 318 | 1,99 | 4,22 | 1,13 | 1,31 | 4,47 |
| -20 | 448 | 521 | 1.779 | 355 | 2,14 | 5,31 | 1,26 | 1,47 | 5,02 |

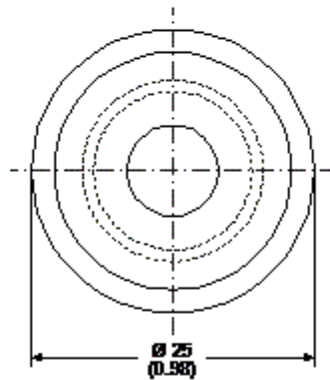
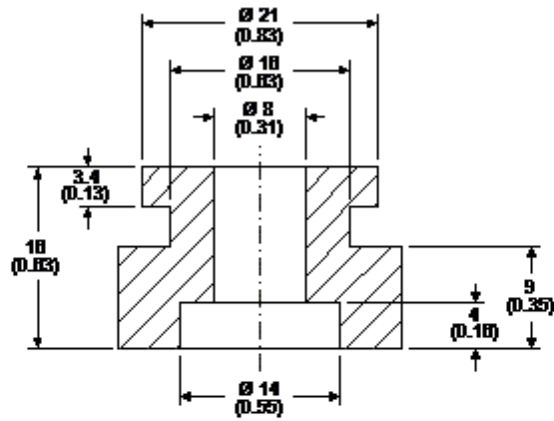
| | | | | | | | | | |
|-----|-----|-----|-------|-----|------|------|------|------|------|
| -15 | 555 | 646 | 2.204 | 392 | 2,29 | 6,60 | 1,42 | 1,65 | 5,62 |
| -10 | 679 | 790 | 2.696 | 430 | 2,43 | 8,11 | 1,58 | 1,84 | 6,27 |

Dimensions

Rubber Grommet

| | |
|------------------|-----------|
| Engineering Code | 13146411 |
| Dimensions | mm (Inch) |

The grommets are made of special rubber and used in the nut and bolt type or in the snap on type assembly. The rubber grommet, the dimensions of which are shown in the figure below, was developed for installation in compressors with 16 and 19 mm diameters holes in the base plate.



Accessories