



**BITZER Output data**

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## Project survey

### ***Selected compressors***

Condensing Units

1x LH135E/6JE-25Y



### Selection: Condensing Units

#### Input Values

|                         |                 |                  |             |
|-------------------------|-----------------|------------------|-------------|
| Unit type               | LH135E/6JE-25Y  | Useful superheat | 100%        |
| Series                  | Standard        | Operating mode   | Auto        |
| Refrigerant             | R449A           | Power supply     | 400V-3-50Hz |
| Reference temperature   | Dew point temp. | Capacity control | 100%        |
| Suction gas temperature | 20,00 °C        |                  |             |

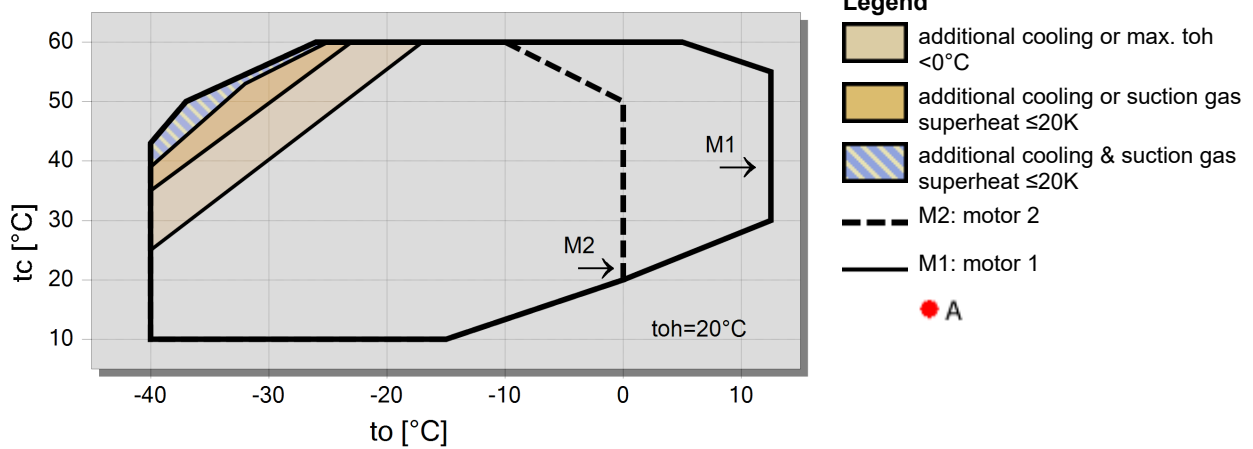
#### Result

|          |                  |          |                |
|----------|------------------|----------|----------------|
| Q [W]    | Cooling capacity | Op.      | Operating mode |
| P [kW]   | Power input      | tc [°C]  | Condensing SDT |
| I [A]    | Current          | dtau [K] | subcooling     |
| m [kg/h] | Mass flow        |          |                |

| tamb | to       | 10°C | 5°C | 0°C | -5°C     | -10°C    | -15°C    | -20°C    | -25°C    |
|------|----------|------|-----|-----|----------|----------|----------|----------|----------|
| 27°C | Q [W]    | --   | --  | --  | 52906    | 44971    | 37607    | 30878    | 24820    |
|      | P [kW]   | --   | --  | --  | 22,6     | 20,0     | 17,60    | 15,31    | 13,17    |
|      | I [A]    | --   | --  | --  | 38,6     | 34,9     | 31,4     | 28,4     | 25,7     |
|      | m [kg/h] | --   | --  | --  | 1286     | 1042     | 836      | 662      | 516      |
|      | Op.      | --   | --  | --  | Standard | Standard | Standard | Standard | Standard |
|      | tc [°C]  | --   | --  | --  | 52,9     | 49,5     | 46,4     | 43,5     | 40,9     |
|      | dtau [K] | --   | --  | --  | 3,00     | 3,00     | 3,00     | 3,00     | 3,00     |
|      |          |      |     |     |          |          |          |          |          |
| 32°C | Q [W]    | --   | --  | --  | --       | 41802    | 34860    | 28512    | 22797    |
|      | P [kW]   | --   | --  | --  | --       | 20,5     | 18,02    | 15,63    | 13,38    |
|      | I [A]    | --   | --  | --  | --       | 35,6     | 32,0     | 28,8     | 26,0     |
|      | m [kg/h] | --   | --  | --  | --       | 1015     | 811      | 639      | 495      |
|      | Op.      | --   | --  | --  | --       | Standard | Standard | Standard | Standard |
|      | tc [°C]  | --   | --  | --  | --       | 53,6     | 50,6     | 47,8     | 45,3     |
|      | dtau [K] | --   | --  | --  | --       | 3,00     | 3,00     | 3,00     | 3,00     |
|      |          |      |     |     |          |          |          |          |          |
| 43°C | Q [W]    | --   | --  | --  | --       | --       | 28817    | 23344    | 18408    |
|      | P [kW]   | --   | --  | --  | --       | --       | 18,71    | 16,10    | 13,63    |
|      | I [A]    | --   | --  | --  | --       | --       | 33,0     | 29,4     | 26,3     |
|      | m [kg/h] | --   | --  | --  | --       | --       | 753      | 585      | 446      |
|      | Op.      | --   | --  | --  | --       | --       | Standard | Standard | Standard |
|      | tc [°C]  | --   | --  | --  | --       | --       | 59,8     | 57,3     | 55,0     |
|      | dtau [K] | --   | --  | --  | --       | --       | 3,00     | 3,00     | 3,00     |
|      |          |      |     |     |          |          |          |          |          |

-- No calculation possible (see message in single point selection)  
 Power input compressor, power input fan see "T. Data"

### Application Limits 1 LH135E/6JE-25





## Technical Data: LH135E/6JE-25Y

### Dimensions and Connections

Drawing not found: C:\Users\kwmj\AppData\Local\BITZER\WindowsSoftware\img\drawings\.

### Technical Data

#### Technical Data

|  |                         |
|--|-------------------------|
| Weight   | 381 kg                  |
| Total width                                    | 1591 mm                 |
| Total depth                                    | 1000 mm                 |
| Total height                                   | 998 mm                  |
| Connection suction line                        | 54 mm - 2 1/8"          |
| Connection liquid line                         | 22 mm - 7/8"            |
| Fans: Number                                   | 2xEC                    |
| Voltage (50Hz, more on request)                | 230V-1-50Hz (Standard)  |
| Current / Power consumption of each fan (50Hz) | 1,6 A / 315 W           |
| Air flow condenser 50Hz                        | 10400 m <sup>3</sup> /h |
| Voltage (60Hz, more on request)                | 230V-1-60Hz (Standard)  |
| Current / Power consumption of each fan (60Hz) | 2,0 A / 340 W           |
| Air flow condenser 60Hz                        | 10400 m <sup>3</sup> /h |
| Coil Volume                                    | 4,9 dm <sup>3</sup>     |
| Receiver type (Standard)                       | F302H                   |
| Max. refrigerant charge 90% at 20°C / 68°F     |                         |
| R22  | 32,7 kg                 |
| R134a  | 33,1 kg                 |
| R407C  | 31,3 kg                 |
| R404A/R507A                                    | 28,8 kg                 |
| R407A  | 31,6 kg                 |
| R407F  | 30,7 kg                 |
| R448A  | 30,1 kg                 |
| R449A  | 30,2 kg                 |
| R450A  | 32,2 kg                 |
| R513A  | 33,1 kg                 |
| R1234yf  | 30 kg                   |
| R1234ze  | 31,8 kg                 |

#### Extent of delivery (Standard)

|                   |          |
|-------------------|----------|
| Discharge line    | Standard |
| Protective charge | Standard |

#### Available Options

|                            |        |
|----------------------------|--------|
| Oil separator              | Option |
| Check valve                | Option |
| High & low pressure switch | Option |
| Dressed unit               | Option |
| Weather protective housing | Option |

#### Sound measurement

Data of compressors: see compressor program



## Condensing Units

**Motor 1** = e.g. LH..E/4TES-12 with 12 "HP", primary for air-conditioning (e.g. R22,R407C) and medium temperature application (e.g. R134a, R407F, R407A, R404A, R507A, R22) and air-conditioning with R134a at high ambient temperatures.

**Motor 2** = e.g. LH..E/4TES-9 with 8 "HP", for medium and low temperature application (e.g. R134a, R407F, R407A, R404A, R507A, R22) and air-conditioning with R134a.

For more information concerning the application range use the "limits" button.

### Operation modes for LH..E/4VES-7 to LH../6HE-28 with R22

CIC = liquid injection with low temperature application, suction gas cooled motor

### Specifications for sound emission Ecostar

The data are based on 50 Hz operation with R404A.

Soundpressure: Data are valid for free field conditions according to EN13487 with a block-shaped reference area in a distance of 10m.

For further informations see technical information for sound data.

### Legend of connection positions according to "Dimensions":

- 1 Suction gas valve
- 2 Discharge gas line
- 3 Condensate line
- 4 Refrigerant outlet (liquid line)
- 5 Pressure relief valve connection
- 6 Liquid injection (operation without liquid subcooler and with thermostatic expansion valve)
- 7 Refrigerant inlet at liquid subcooler
- 8 Refrigerant outlet at liquid subcooler
- 9 Suction gas line
- 10 Sight glass
- 11 Load suspension points
- 12 Plug for screwed cable gland
- 13 Cable bushing (for cables  $\varnothing$  9-17 mm) (only ECOLITE)

Dimensions can show tolerances according to EN ISO 13920-B.