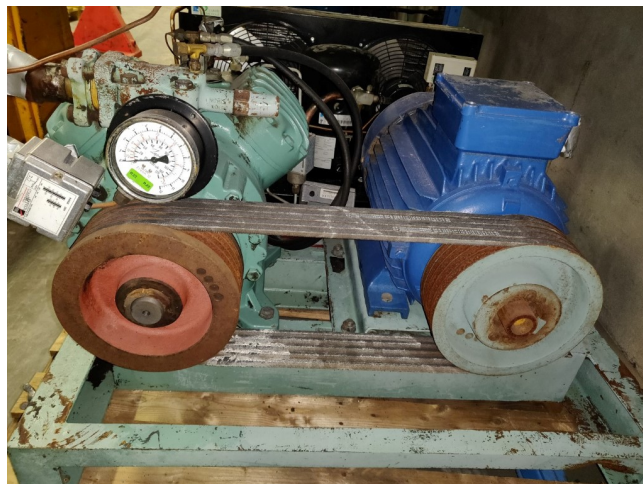


## Bitzer 4H.2

### Specifications

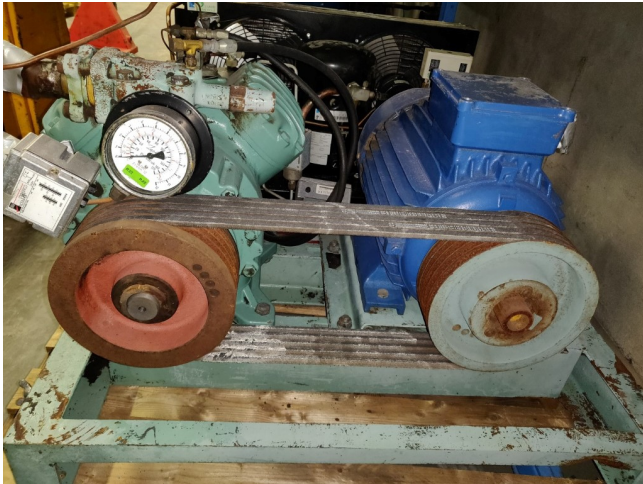
|                                       |                                |
|---------------------------------------|--------------------------------|
| Marque                                | Bitzer                         |
| Le type                               | 4H.2                           |
| Réfrigérant                           | Freon                          |
| Refrigerant type                      | R 404 A or other types         |
| kW at 0°C/+40°C                       | 59.9                           |
| kW at -5°C/+40°C                      | 49.9                           |
| kW at -10°C/+40°C                     | 41.1                           |
| kW at -20°C/+40°C                     | 27.0                           |
| kW at -30°C/+40°C                     | 16.6                           |
| Électromoteur Specs                   | 15                             |
| Sur le châssis en acier               | ✓                              |
| Interrupteurs de sécurité de pression | ✓                              |
| Manomètres                            | ✓                              |
| Remarques                             | Electromotor 15 Kw at 1460 RPM |
| Stock                                 | 1                              |



### Description

#### Used Bitzer 4H.2

Used Bitzer 4H.2 Open-Type Reciprocating Compressor + WBO Electromotor type 4P.T16OL with 15 kW at 1460 RPM. Our capacity table is based on the used type of Freon. You can also use these compressors on alternative types of Freon. For all the other specs (if available), see the picture of the manufacturer model plate or the attached pdf file. \*Why choose for HOSBV? Were not only the largest used refrigeration specialist in Europe, but also, we deliver all equipment including an extensive test, warranty and industrial cleaning. Optional we can arrange the logistics.





BITZER Software v6.4.3 rev1353

29.05.2015 / All data subject to change.

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## Compressor Selection: Open-Type Reciprocating Compressors

### Input Values

|                           |                 |                  |                |
|---------------------------|-----------------|------------------|----------------|
| Compressor model          | 4H.2Y-K         | Useful superheat | 100%           |
| Refrigerant               | R404A           | Motor speed      | 1450 /min      |
| Reference temperature     | Dew point temp. | Drive            | Coupling (1:1) |
| Liq. subc. (in condenser) | 0 K             | Capacity Control | 100%           |
| Suction gas temperature   | 20.00 °C        |                  |                |

### Result

|          |       | Cooling capacity | Cooling capacity * | Power input | Condenser Capacity | COP [-] | COP* [-] | COPIER   | COPIER * | Mass flow | Compr. speed |
|----------|-------|------------------|--------------------|-------------|--------------------|---------|----------|----------|----------|-----------|--------------|
|          |       | Q [W]            | Q* [W]             | P [kW]      | Qc [W]             | n [min] | n [min]  | m [kg/h] | m [kg/h] | n [min]   | n [min]      |
| 30°C     | 5°C   | 0°C              | -5°C               | -10°C       | -15°C              | -20°C   | -25°C    | -30°C    |          |           |              |
| Q [W]    | 82602 | 69315            | 57790              | 47805       | 39179              | 31756   | 25402    | 19997    |          |           |              |
| Q* [W]   | 82602 | 69315            | 57790              | 47805       | 39179              | 31756   | 25402    | 19997    |          |           |              |
| P [kW]   | 15.19 | 14.93            | 14.39              | 13.63       | 12.69              | 11.61   | 10.44    | 9.23     |          |           |              |
| Qc [W]   | 97795 | 84242            | 72181              | 61435       | 51867              | 43368   | 35847    | 29230    |          |           |              |
| COP [-]  | 5.44  | 4.64             | 4.02               | 3.51        | 3.09               | 2.73    | 2.43     | 2.17     |          |           |              |
| COP* [-] | 5.44  | 4.64             | 4.02               | 3.51        | 3.09               | 2.73    | 2.43     | 2.17     |          |           |              |
| m [kg/h] | 2129  | 1762             | 1452               | 1189        | 966                | 778     | 619      | 484      |          |           |              |
| n [min]  | 1450  | 1450             | 1450               | 1450        | 1450               | 1450    | 1450     | 1450     |          |           |              |
| 40°C     | Q [W] | 71438            | 59935              | 49911       | 41191              | 33629   | 27098    | 21487    | 16696    |           |              |
| Q* [W]   | 71438 | 59935            | 49911              | 41191       | 33629              | 27098   | 21487    | 16696    |          |           |              |
| P [kW]   | 17.75 | 17.13            | 16.25              | 15.17       | 13.92              | 12.56   | 11.15    | 9.73     |          |           |              |
| Qc [W]   | 89185 | 77066            | 66165              | 56357       | 47546              | 39659   | 32635    | 26424    |          |           |              |
| COP [-]  | 4.03  | 3.50             | 3.07               | 2.72        | 2.42               | 2.16    | 1.93     | 1.72     |          |           |              |
| COP* [-] | 4.03  | 3.50             | 3.07               | 2.72        | 2.42               | 2.16    | 1.93     | 1.72     |          |           |              |
| m [kg/h] | 2082  | 1719             | 1413               | 1153        | 933                | 746     | 587      | 454      |          |           |              |
| n [min]  | 1450  | 1450             | 1450               | 1450        | 1450               | 1450    | 1450     | 1450     |          |           |              |
| 50°C     | Q [W] | 59883            | 50252              | 41803       | 34411              | 27967   | 22374    | 17544    | 13398    |           |              |
| Q* [W]   | 59883 | 50252            | 41803              | 34411       | 27967              | 22374   | 17544    | 13398    |          |           |              |
| P [kW]   | 20.4  | 19.47            | 18.27              | 16.88       | 15.36              | 13.76   | 12.13    | 10.53    |          |           |              |
| Qc [W]   | 80303 | 69722            | 60677              | 51296       | 43327              | 36130   | 29671    | 23927    |          |           |              |
| COP [-]  | 2.93  | 2.58             | 2.29               | 2.04        | 1.82               | 1.63    | 1.45     | 1.27     |          |           |              |
| COP* [-] | 2.93  | 2.58             | 2.29               | 2.04        | 1.82               | 1.63    | 1.45     | 1.27     |          |           |              |
| m [kg/h] | 2032  | 1674             | 1371               | 1114        | 896                | 710     | 553      | 419      |          |           |              |
| n [min]  | 1450  | 1450             | 1450               | 1450        | 1450               | 1450    | 1450     | 1450     |          |           |              |

-- No calculation possible (see message in single point selection)  
\*According to EN12900 (20°C suction gas temp., 0K liquid subcooling)

Application Limits Standard