

## TECHNICAL DATASHEET



# TWH 472 VV/H/A

| PRODUCT FICHE according to European Regulation n° 2016/2281: Information requirements for high temperature process chillers                                      |                    |          |                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|-----------------------|
| Model:                                                                                                                                                           | TWH 472 VV/H/A     |          |                       |
| Type of condensing:                                                                                                                                              | Water-Cooled       |          |                       |
| Refrigerant fluid:                                                                                                                                               | R1234ze            |          |                       |
| Item                                                                                                                                                             | Symbol             | Value    | Unit                  |
| Operating temperature                                                                                                                                            | t                  | 7        | °C                    |
| Seasonal energy performance ratio                                                                                                                                | SEPR               | 7.95     | [-]                   |
| Annual electricity consumption                                                                                                                                   | Q                  | 518086   | kWh/a                 |
| Parameters at full load and reference ambient temperature at rating point A (**)                                                                                 |                    |          |                       |
| Rated refrigeration capacity                                                                                                                                     | P <sub>A</sub>     | 557.57   | kW                    |
| Rated power input                                                                                                                                                | D <sub>A</sub>     | 103.26   | kW                    |
| Rated energy efficiency ratio                                                                                                                                    | EER <sub>DCA</sub> | 5.4      | [-]                   |
| Parameters at rating point B                                                                                                                                     |                    |          |                       |
| Declared refrigeration capacity                                                                                                                                  | P <sub>B</sub>     | 518.54   | kW                    |
| Declared power input                                                                                                                                             | D <sub>B</sub>     | 68.05    | kW                    |
| Declared energy efficiency ratio                                                                                                                                 | EER <sub>DCB</sub> | 7.62     | [-]                   |
| Parameters at rating point C                                                                                                                                     |                    |          |                       |
| Declared refrigeration capacity                                                                                                                                  | P <sub>C</sub>     | 485.08   | kW                    |
| Declared power input                                                                                                                                             | D <sub>C</sub>     | 59.52    | kW                    |
| Declared energy efficiency ratio                                                                                                                                 | EER <sub>DCC</sub> | 8.15     | [-]                   |
| Parameters at rating point D                                                                                                                                     |                    |          |                       |
| Declared refrigeration capacity                                                                                                                                  | P <sub>D</sub>     | 446.05   | kW                    |
| Declared power input                                                                                                                                             | D <sub>D</sub>     | 55.9     | kW                    |
| Declared energy efficiency ratio                                                                                                                                 | EER <sub>DCD</sub> | 7.98     | [-]                   |
| Other items                                                                                                                                                      |                    |          |                       |
| Capacity control                                                                                                                                                 |                    | variable |                       |
| Degradation co-efficient chillers (*)                                                                                                                            | C <sub>dc</sub>    | 0.90     | [-]                   |
| GWP of the refrigerant                                                                                                                                           |                    | 4.94     | kg CO2 eq (100 years) |
| (**) If C <sub>dc</sub> is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.                                      |                    |          |                       |
| (**) For staged capacity units, two values divides by a slash ('/') will be declared in each box in the section referring to 'refrigeration capacity' and 'EER'. |                    |          |                       |