



# **NXHP**

## **Air-to-Water rotary heat pump**

TECHNICAL DATASHEET FOR LT SPACE HEATER

# **RIELLO**

# TECHNICAL DATASHEET FOR LOW TEMPERATURE SPACE HEATER

Information requirements pursuant to regulation (EU) N°813/2013

## Description

|   |                  |
|---|------------------|
| Model                                   | <b>NXHP 014T</b> |
| Air-to-Water Heat pump                  | Yes              |
| Water-to-Water Heat pump                | No               |
| Brine-to-Water Heat pump                | No               |
| Low-temperature Heat pump (30°C / 35°C) | Yes              |
| Equipped with supplementary heater      | No               |
| Heat pump combination heater            | No               |
| Climate                                 | Average          |

## Performances established in accordance with EN14511:2018 and EN14825:2018

|   | Symbol                         | Unit       |             |
|---|--------------------------------|------------|-------------|
| <b>Rated heat output(*)</b>                     | <b>Prated</b>                  | <b>kW</b>  | <b>10</b>   |
| <b>Seasonal Space Heating Energy Efficiency</b> | <b><math>\eta_{s,h}</math></b> | <b>%</b>   | <b>176</b>  |
| Annual energy consumption                       | <b>QHE</b>                     | <b>kWh</b> | <b>4696</b> |

## Declared capacity (Pdh), declared coefficient of performance (COPd) and declared degradation coefficient (Cdh(\*\*)) for heating for part load at indoor temperature 20 °C and outdoor temperature Tj

|                                     |         |    |      |
|-------------------------------------|---------|----|------|
| Tj = -7 °C                          | Pdh     | kW | 9.01 |
|                                     | COPd    |    | 2.63 |
|                                     | Cdh(**) |    | -    |
| Tj = 2 °C                           | Pdh     | kW | 5.2  |
|                                     | COPd    |    | 4.47 |
|                                     | Cdh(**) |    | -    |
| Tj = 7 °C                           | Pdh     | kW | 3.23 |
|                                     | COPd    |    | 5.76 |
|                                     | Cdh(**) |    | 0.96 |
| Tj = 12 °C                          | Pdh     | kW | 3.74 |
|                                     | COPd    |    | 7.77 |
|                                     | Cdh(**) |    | 0.95 |
| Tj = operation limit temperature °C | Pdh     | kW | 9.26 |
|                                     | COPd    |    | 2.51 |
|                                     | Cdh(**) |    | -    |
| Tj = bivalent temperature °C        | Pdh     | kW | 9.01 |
|                                     | COPd    |    | 2.63 |
|                                     | Cdh(**) |    | -    |
| Bivalent temperature                | Tbiv    | °C | -7   |
| Operation limit temperature         | TOL     | °C | -10  |
| Heating water operating limit       | WTOL    | °C | 75   |

## Power consumption in modes other than active mode

|                       |      |   |    |
|-----------------------|------|---|----|
| Off mode              | POFF | W | 10 |
| Thermostat off-mode   | Pto  | W | 15 |
| Standby mode          | PSB  | W | 10 |
| Crankcase heater mode | PCK  | W | 0  |

## Supplementary heater

|                      |      |    |            |
|----------------------|------|----|------------|
| Rated heat output(*) | Psup | kW | 0.93       |
| Type of energy input |      |    | Electrical |

## Other items

|                                |     |     |          |
|--------------------------------|-----|-----|----------|
| Capacity control               |     |     | VARIABLE |
| Outlet temperature control     |     |     | VARIABLE |
| Water flow rate control        |     |     | FIXED    |
| Rated Air flow rate outdoor(1) |     | l/s | 1800     |
| Sound power level              | LWA | dBA | 52       |

|                 |   |
|-----------------|---|
| Contact details | CARRIER SCS - Route de Thil - 01120 Montluel - FRANCE |
|-----------------|---|

(1)Not applicable for water-to-water and brine-to-water heat pumps

(\*)For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load f or heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(\*\*):If Cdh is not determined by measurement then the default degradation coefficient of chillers shall be 0.9.