

# Product Information



Energy labelling Regulation: (EU) 811/2013

Ecodesign Regulation: (EU) 813/2013

## PRODUCT FICHE

| Heat pump combination heater  |  | Indoor                               | EBLA09DA3V3 /<br>EKHWSU180D3V3 |
|---|--|--------------------------------------|--------------------------------|
|   |  | Tank                                 | EKHWSU180D3V3                  |
| Indoor unit sound power (*)   |  | [dB(A)]                              |                                |
| Outdoor unit sound power (*)  |  | [dB(A)]                              | 62.0                           |
| Water heating   | Declared load profile                                    | -                                    | L                              |
|   | Energy efficiency class                                  | -                                    | A                              |
| Space Heating   | Energy efficiency class 55°C (High temp. app.)           | -                                    | A++                            |
| Average climate (Design temperature = -10°C)  |  |                                      |                                |
| Water heating   | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]                                  | 105                            |
|   | Annual energy consumption                                | [kWh]                                | 976                            |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ -10°C          | [kW]                                 | 9.0                            |
|   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                                  | 135                            |
|   | Annual energy consumption                                | [kWh]                                | 5,404                          |
| off peak operation function integrated in Heat pump   |  | Y/N                                  | false                          |
| Colder climate (Design temperature = -22°C)   |  |                                      |                                |
| Water heating   | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]                                  | 85                             |
|   | Annual electricity consumption (AEC)                     | [kWh]                                | 1,202                          |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ -22°C          | [kW]                                 | 9.0                            |
|   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                                  | 117                            |
|   | Annual energy consumption                                | [kWh]                                | 7,376                          |
| Warmer climate (Design temperature = 2°C)   |  |                                      |                                |
| Water heating   | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]                                  | 120                            |
|   | Annual electricity consumption (AEC)                     | [kWh]                                | 853                            |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ 2°C            | [kW]                                 | 9.0                            |
|   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                                  | 168                            |
|   | Annual energy consumption                                | [kWh]                                | 2,820                          |
| Ecodesign technical data  |  |                                      |                                |
| Product description   | Air-to-water heat pump                                   | Y/N                                  | Yes                            |
|   | Water-to-water heat pump                                 | Y/N                                  | No                             |
|   | Brine-to-water heat pump                                 | Y/N                                  | No                             |
|   | Low-temperature heat pump                                | Y/N                                  | No                             |
|   | Equipped with a supplementary heater                     | Y/N                                  | Yes                            |
|   | Heat pump combination heater                             | Y/N                                  | Yes                            |
| Air to water unit   | Rated airflow (outdoor)                                  | [m <sup>3</sup> /h]                  | 3                              |
| Brine/water to water unit   | Rated water/brine flow (outdoor H/E)                     | [m <sup>3</sup> /h]                  | 3                              |
| Other   | Capacity control   | -                                    |                                |
|   | $P_{off}$ (Power consumption Off mode)                   | [kW]                                 | 0.023                          |
|   | $P_{to}$ (Power consumption Thermostat off mode)         | [kW]                                 | 0.023                          |
|   | $P_{sb}$ (Power consumption Standby mode)                | [kW]                                 | 0.023                          |
|   | $P_{CK}$ (Power crankcase heater model)                  | [kW]                                 | 0.000                          |
|   | $Q_{elec}$ (Daily electricity consumption)               | [kWh]                                | 4.620                          |
|   | $Q_{fuel}$ (Daily fuel consumption)                      | [kWh]                                |                                |
| Part load conditions space heating average climate  |  |                                      |                                |
| (A) condition (-7°C)  |  | $P_{dh}$ (declared heating capacity) | [kW] 8.5                       |
|   |  | $COP_d$ (declared COP)               | - 2.09                         |
|   |  | $C_{dh}$ (degradation coefficient)   | - 1.0                          |
| (B) condition (2°C)   |  | $P_{dh}$ (declared heating capacity) | [kW] 5.0                       |
|   |  | $COP_d$ (declared COP)               | - 3.28                         |
|   |  | $C_{dh}$ (degradation coefficient)   | - 1.0                          |
| (C) condition (7°C)   |  | $P_{dh}$ (declared heating capacity) | [kW] 4.4                       |
|   |  | $COP_d$ (declared COP)               | - 4.80                         |
|   |  | $C_{dh}$ (degradation coefficient)   | - 1.0                          |
| (D) (D) condition (12°C)  |  | $P_{dh}$ (declared heating capacity) | [kW] 5.3                       |
|   |  | $COP_d$ (declared COP)               | - 6.45                         |
|   |  | $C_{dh}$ (degradation coefficient)   | - 1.0                          |
| (E) ToI (temperature operating limit)   |  | ToI (temperature operating limit)    | [°C] -10                       |
|   |  | $P_{dh}$ (declared heating capacity) | [kW] 6.8                       |
|   |  | $COP_d$ (declared COP)               | - 1.70                         |
| (F) TbiValent temperature   |  | WTOL (Heating water Operation Limit) | [°C] 55                        |
|   |  | T <sub>blv</sub>                     | [°C] -8                        |
|   |  | $P_{dh}$ (declared heating capacity) | [kW] 8.8                       |
|   |  | $COP_d$ (declared COP)               | - 1.92                         |
| Capacity of the back-up heater integrated in the unit   | $P_{sup}$ back-up heater (@T <sub>designh</sub> : -10°C) | [kW]                                 |                                |
| Supplementary capacity at P <sub>design</sub>   | $P_{sup}$ (@T <sub>designh</sub> : -10°C)                | [kW]                                 | 2.2                            |
| Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.<br>Energy labels and product fiches for additional combinations, packages and other products can be found on 'energylabel.daikin.eu'<br>(*) Sound power level in heating mode, measured according to the EN15036 for combustion boilers and EN 12102 for heat pumps under conditions of the EN ISO 3746, accuracy class 3<br>This data is for comparison of Energy efficiencies according to Regulation (EU) 2017/1369, for correct selection of products for your application, contact your dealer. |  |                                      |                                |

Depending on your application and the product selected an additional supplementary heater may have to be installed.