

# Product Information



Energy labelling Regulation: (EU) 811/2013

Ecodesign Regulation: (EU) 813/2013

## PRODUCT FICHE

| Heat pump combination heater                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          | Indoor              | EDLA11DAV3 /<br>EKHWSU250D3V3 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------|-------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          | Tank                | EKHWSU250D3V3                 |
| 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 ( $\eta_{WH}$ )          | [%]                 | 107                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual energy consumption                                | [kWh]               | 961                           |
| Space Heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $P_{rated}$ (declared heating capacity) @ -10°C          | [kW]                | 10.0                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                 | 130                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual energy consumption                                | [kWh]               |                               |
| off peak operation function integrated in Heat pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          | Y/N                 | false                         |
| Colder climate (Design temperature = -22°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                          |                     |                               |
| Water heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]                 | 89                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual electricity consumption (AEC)                     | [kWh]               | 1,156                         |
| Space Heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $P_{rated}$ (declared heating capacity) @ -22°C          | [kW]                | 10.0                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                 | 117                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual energy consumption                                | [kWh]               |                               |
| Warmer climate (Design temperature = 2°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |                     |                               |
| Water heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]                 | 126                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual electricity consumption (AEC)                     | [kWh]               | 813                           |
| Space Heating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | $P_{rated}$ (declared heating capacity) @ 2°C            | [kW]                | 10.0                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Seasonal space heating efficiency ( $\eta_{SH}$ )        | [%]                 | 165                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Annual energy consumption                                | [kWh]               |                               |
| 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                 | No                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Heat pump combination heater                             | Y/N                 | Yes                           |
| Air to water unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rated airflow (outdoor)                                  | [m <sup>3</sup> /h] | 3,350                         |
| Brine/water to water unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rated water/brine flow (outdoor H/E)                     | [m <sup>3</sup> /h] | 3                             |
| Other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Capacity control                                         | -                   | Inverter                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{off}$ (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]               | 4.560                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $Q_{fuel}$ (Daily fuel consumption)                      | [kWh]               |                               |
| Part load conditions space heating average climate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                     |                               |
| (A) condition (-7°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 9.3                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 1.90                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $C_{dh}$ (degradation coefficient)                       | -                   | 1.0                           |
| (B) condition (2°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 5.4                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 3.25                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $C_{dh}$ (degradation coefficient)                       | -                   | 1.0                           |
| (C) condition (7°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 4.4                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 4.81                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $C_{dh}$ (degradation coefficient)                       | -                   | 1.0                           |
| (D) (D) condition (12°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 5.3                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 6.41                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $C_{dh}$ (degradation coefficient)                       | -                   | 1.0                           |
| (E) ToI (temperature operating limit)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ToI (temperature operating limit)                        | [°C]                | -10                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 7.6                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 1.64                          |
| (F) TbiValent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                          |                     |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WTOL (Heating water Operation Limit)                     | [°C]                | 55                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | T <sub>blv</sub>                                         | [°C]                | -7                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $P_{dh}$ (declared heating capacity)                     | [kW]                | 9.3                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $COP_d$ (declared COP)                                   | -                   | 1.90                          |
| 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]                | 2.4                           |
| 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.