

# Product Information



Energy labelling Regulation: (EU) 811/2013

Ecodesign Regulation: (EU) 813/2013

## PRODUCT FICHE

|   |  |   |               |     |
|---|--|---|---------------|-----|
| Heat pump combination heater  |  | Outdoor                                     | EPRA18DAV37   |     |
|   |  | Indoor                                      | ETBX16EF6V7   |     |
|   |  | Tank  | EKHWSU250D3V3 |     |
| Indoor unit sound power (*)   |  | [dB(A)]                                     | 44.0          |     |
| Outdoor unit sound power (*)  |  | [dB(A)]                                     | 54.0          |     |
| Water heating   | Declared load profile                                    | -   | XL            |     |
|   | 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 ( $\eta_{WH}$ )          | [%]   | 100           |     |
|   | Annual energy consumption                                | [kWh]                                       | 1,670         |     |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ −10°C          | [kW]  | 13            |     |
|   | Seasonal space heating efficiency ( $\eta$ ( $\eta_S$ )) | [%]   | 142           |     |
|   | Annual energy consumption                                | [kWh]                                       | 7,134         |     |
| off peak operation function integrated in Heat pump   |  | Y/N   | true          |     |
| Colder climate (Design temperature = −22°C)   |  |   |               |     |
| Water heating   | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]   | 85            |     |
|   | Annual electricity consumption (AEC)                     | [kWh]                                       | 1,963         |     |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ −22°C          | [kW]  | 13            |     |
|   | Seasonal space heating efficiency ( $\eta$ ( $\eta_S$ )) | [%]   | 125           |     |
|   | Annual energy consumption                                | [kWh]                                       | 9,609         |     |
| Warmer climate (Design temperature = 2°C)   |  |   |               |     |
| Water heating   | Water heating energy efficiency ( $\eta_{WH}$ )          | [%]   | 111           |     |
|   | Annual electricity consumption (AEC)                     | [kWh]                                       | 1,515         |     |
| Space Heating   | $P_{rated}$ (declared heating capacity) @ 2°C            | [kW]  | 14.1          |     |
|   | Seasonal space heating efficiency ( $\eta_S$ )           | [%]   | 169           |     |
|   | Annual energy consumption                                | [kWh]                                       | 4,371         |     |
| 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]                         | 3,960         |     |
| Brine/water to water unit   | Rated water/brine flow (outdoor H/E)                     | [m <sup>3</sup> /h]                         |               |     |
| Other   | Capacity control   | -   | Inverter      |     |
|   | $P_{off}$ (Power consumption Off mode)                   | [kW]  | 0.021         |     |
|   | $P_{to}$ (Power consumption Thermostat off mode)         | [kW]  | 0.041         |     |
|   | $P_{sb}$ (Power consumption Standby mode)                | [kW]  | 0.021         |     |
|   | $P_{CK}$ (Power crankcase heater model)                  | [kW]  | 0.000         |     |
|   | $Q_{elec}$ (Daily electricity consumption)               | [kWh]                                       | 9.300         |     |
|   | $Q_{fuel}$ (Daily fuel consumption)                      | [kWh]                                       |               |     |
| Part load conditions space heating average climate  |  |   |               |     |
| (A) condition (-7°C)  | $P_{dh}$ (declared heating capacity)                     | [kW]  | 11.2          |     |
|   | $COP_d$ (declared COP)                                   | -   | 2.47          |     |
|   | $C_{dh}$ (degradation coefficient)                       | -   | 1.0           |     |
| B) condition (2°C)  | $P_{dh}$ (declared heating capacity)                     | [kW]  | 6.9           |     |
|   | $COP_d$ (declared COP)                                   | -   | 3.56          |     |
|   | $C_{dh}$ (degradation coefficient)                       | -   | 1.0           |     |
| (C) condition (7°C)   | $P_{dh}$ (declared heating capacity)                     | [kW]  | 6.9           |     |
|   | $COP_d$ (declared COP)                                   | -   | 4.44          |     |
|   | $C_{dh}$ (degradation coefficient)                       | -   | 1.0           |     |
| (D) (D) condition (12°C)  | $P_{dh}$ (declared heating capacity)                     | [kW]  | 6.2           |     |
|   | $COP_d$ (declared COP)                                   | -   | 5.72          |     |
|   | $C_{dh}$ (degradation coefficient)                       | -   | 1.0           |     |
| (E) Tol (temperature operating limit)   | Tol (temperature operating limit)                        | [°C]  | -10           |     |
|   | $P_{dh}$ (declared heating capacity)                     | [kW]  | 12.2          |     |
|   | $COP_d$ (declared COP)                                   | -   | 2.19          |     |
| (F) Tbivalent temperature   | WTOL (Heating water Operation Limit)                     | [°C]  | 55            |     |
|   | $T_{blv}$  | [°C]  | -10           |     |
|   | $P_{dh}$ (declared heating capacity)                     | [kW]  | 12.2          |     |
|   | $COP_d$ (declared COP)                                   | -   | 2.19          |     |
| Capacity of the back-up heater integrated in the unit   |  | $P_{sup}$ back-up heater (@Tdesignh: −10°C) | [kW]          | 6.0 |
| Supplementary capacity at P_design  |  | $P_{sup}$ (@Tdesignh: −10°C)                | [kW]          | 0.0 |
| 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' |  |   |               |     |
| (*) 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   |  |   |               |     |

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.