

# Product Information



Energy labelling Regulation: (EU) 811/2013

Ecodesign Regulation: (EU) 813/2013

## PRODUCT FICHE

<b>Heat pump combination heater</b>		Outdoor	EPRA12EAV3
		Indoor	ETBH12EF6V
		Tank	EKHWSU150D3V3
Indoor unit sound power (*)	[dB(A)]	44.0	
Outdoor unit sound power (*)	[dB(A)]	53.0	
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 ( $\eta_{WH}$ )	[%]	84
	Annual energy consumption	[kWh]	1,217
Space Heating	$P_{rated}$ (declared heating capacity) @ -10°C	[kW]	8.5
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	134
	Annual energy consumption	[kWh]	5,120
off peak operation function integrated in Heat pump		Y/N	true
Colder climate (Design temperature = -22°C)			
Water heating	Water heating energy efficiency ( $\eta_{WH}$ )	[%]	69
	Annual electricity consumption (AEC)	[kWh]	1,487
Space Heating	$P_{rated}$ (declared heating capacity) @ -22°C	[kW]	9.0
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	121
	Annual energy consumption	[kWh]	7,146
Warmer climate (Design temperature = 2°C)			
Water heating	Water heating energy efficiency ( $\eta_{WH}$ )	[%]	100
	Annual electricity consumption (AEC)	[kWh]	1,025
Space Heating	$P_{rated}$ (declared heating capacity) @ 2°C	[kW]	9.6
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	166
	Annual energy consumption	[kWh]	3,039
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
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]	0.021
	$P_{to}$ (Power consumption Thermostat off mode)	[kW]	0.024
	$P_{sb}$ (Power consumption Standby mode)	[kW]	0.021
	$P_{CK}$ (Power crankcase heater model)	[kW]	0.000
	$Q_{elec}$ (Daily electricity consumption)	[kWh]	5.783
	$Q_{fuel}$ (Daily fuel consumption)	[kWh]	
Part load conditions space heating average climate			
(A) condition (-7°C)			
	$P_{dh}$ (declared heating capacity)	[kW]	7.6
	$COP_d$ (declared COP)	-	2.21
	$C_{dh}$ (degradation coefficient)	-	1.0
(B) condition (2°C)			
	$P_{dh}$ (declared heating capacity)	[kW]	4.6
	$COP_d$ (declared COP)	-	3.37
	$C_{dh}$ (degradation coefficient)	-	1.0
(C) condition (7°C)			
	$P_{dh}$ (declared heating capacity)	[kW]	3.0
	$COP_d$ (declared COP)	-	4.48
	$C_{dh}$ (degradation coefficient)	-	1.0
(D) (D) condition (12°C)			
	$P_{dh}$ (declared heating capacity)	[kW]	3.7
	$COP_d$ (declared COP)	-	5.98
	$C_{dh}$ (degradation coefficient)	-	1.0
(E) Tol (temperature operating limit)			
	Tol (temperature operating limit)	[°C]	-10
	$P_{dh}$ (declared heating capacity)	[kW]	8.3
	$COP_d$ (declared COP)	-	1.97
	WTOL (Heating water Operation Limit)	[°C]	55
(F) Tbivalent temperature			
	$T_{blv}$	[°C]	-10
	$P_{dh}$ (declared heating capacity)	[kW]	8.3
	$COP_d$ (declared COP)	-	1.97
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. Energy labels and product fiches for additional combinations, packages and other products can be found on <a href="http://energylabel.daikin.eu">energylabel.daikin.eu</a> (*) 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.