

# Product Information



Energy labelling Regulation: (EU) 811/2013

Ecodesign Regulation: (EU) 813/2013

## PRODUCT FICHE

Heat pump combination heater		Indoor	EBLA16DAV3 / 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]	12.0
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	132
	Annual energy consumption	[kWh]	7.359
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]	12.0
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	120
	Annual energy consumption	[kWh]	9.599
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]	12.1
	Seasonal space heating efficiency ( $\eta_{SH}$ )	[%]	172
	Annual energy consumption	[kWh]	3.690
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]	0.023
	$P_{to}$ (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] 9.4
		$COP_d$ (declared COP)	- 1.95
		$C_{dh}$ (degradation coefficient)	- 1.0
(B) condition (2°C)		$P_{dH}$ (declared heating capacity)	[kW] 6.9
		$COP_d$ (declared COP)	- 3.27
		$C_{dh}$ (degradation coefficient)	- 1.0
(C) condition (7°C)		$P_{dH}$ (declared heating capacity)	[kW] 4.4
		$COP_d$ (declared COP)	- 4.93
		$C_{dh}$ (degradation coefficient)	- 1.0
(D) (D) condition (12°C)		$P_{dH}$ (declared heating capacity)	[kW] 5.3
		$COP_d$ (declared COP)	- 6.60
		$C_{dh}$ (degradation coefficient)	- 1.0
(E) ToI (temperature operating limit)		ToI (temperature operating limit)	[°C] -10
		$P_{dH}$ (declared heating capacity)	[kW] 8.0
		$COP_d$ (declared COP)	- 1.67
(F) TbiValent temperature		WTOL (Heating water Operation Limit)	[°C] 55
		T <sub>blv</sub>	[°C] -5
		$P_{dH}$ (declared heating capacity)	[kW] 10.1
		$COP_d$ (declared COP)	- 2.13
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]	4.1
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 '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.