

Product fiche concerning the COMMISSION DELEGATED REGULATIONS (EU)No 811/2013

Technical parameters for heat pump space heaters and heat pump combination heater

Model: ECONSET Hero H8A
Air-to-water heat pump: yes
Water-to-water heat pump: no
Brine-to-water heat pump: no
Low-temperature heat pump: no
Equipped with a supplementary heater: no
Heat pump combination heater: no

Water outlet temperature: 35°C

Parameters shall be declared for low-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	10,0	kW	Seasonal space heating energy efficiency	η_s	190	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = + 2\text{ °C}$	<i>Pdh</i>	9,6	kW	$T_j = + 2\text{ °C}$	<i>COPd</i>	3,09	-
$T_j = + 7\text{ °C}$	<i>Pdh</i>	6,36	kW	$T_j = + 7\text{ °C}$	<i>COPd</i>	4,42	-
$T_j = + 12\text{ °C}$	<i>Pdh</i>	4,75	kW	$T_j = + 12\text{ °C}$	<i>COPd</i>	5,83	-
$T_j = \text{bivalent temperature °C}$	<i>Pdh</i>	9,6	kW	$T_j = \text{bivalent temperature °C}$	<i>COPd</i>	3,09	-
Bivalent temperature	<i>Tbiv</i>	3	°C	Operation limit temperature	<i>TOL</i>	2	°C
Degradation co-efficient (**)	<i>Cdh</i>	0.9	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,013	kW	Capacity control		variable	
Thermostat-off mode	<i>P_{TO}</i>	0,013	kW	Sound power level, indoors/outdoors	<i>L_{WA}</i>	- /68	dB
Standby mode	<i>P_{SB}</i>	0,013	kW	Annual energy consumption	<i>Q_{HE}</i>	2766	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	4,83	-
Rated heat output (**)	<i>P_{sup}</i>	0,4	kW				

Water outlet temperature: 55°C

Parameters shall be declared for medium-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	8,5	kW	Seasonal space heating energy efficiency	η_s	145.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j				Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
$T_j = + 2\text{ °C}$	<i>Pdh</i>	8,19	kW	$T_j = + 2\text{ °C}$	<i>COPd</i>	2,04	-
$T_j = + 7\text{ °C}$	<i>Pdh</i>	5,39	kW	$T_j = + 7\text{ °C}$	<i>COPd</i>	3,26	-
$T_j = + 12\text{ °C}$	<i>Pdh</i>	4,21	kW	$T_j = + 12\text{ °C}$	<i>COPd</i>	4,73	-
$T_j = \text{bivalent temperature °C}$	<i>Pdh</i>	8,19	kW	$T_j = \text{bivalent temperature °C}$	<i>COPd</i>	2.04	-
Bivalent temperature	<i>Tbiv</i>	3	°C	Operation limit temperature	<i>TOL</i>	2	°C
Degradation co-efficient (**)	<i>Cdh</i>	0.9	-	Heating water operating limit temperature	<i>WTOL</i>	55	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,013	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,013	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /68	dB
Standby mode	<i>P_{SB}</i>	0,013	kW	Annual energy consumption	<i>QHE</i>	3057	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,8	-
Rated heat output (**)	<i>P_{sup}</i>	0,32	kW				
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output *Prated* is equal to the design load for heating *Pdesignh*, and the rated heat output of a supplementary heater *Psup* is equal to the supplementary capacity for heating *sup(Tj)*.

(**) If *Cdh* is not determined by measurement then the default degradation coefficient is *Cdh* = 0,9.