

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 Plus P6**

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

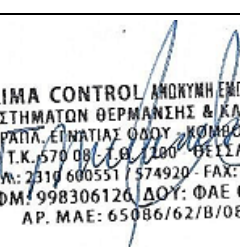
Parameters shall be declared for low-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	6,0	kW	Seasonal space heating energy efficiency	η_s	201	%
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>	6,1	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,98	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	3,97	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,77	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	2,82	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	5,9	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	6,1	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,98	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>L_{WA}</i>	- /63	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	1552	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	5,11	-
Rated heat output (**)	<i>P_{sup}</i>	-	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>	6,0	kW	Seasonal space heating energy efficiency	η_s	150	%
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			
$T_j = + 2 \text{ }^\circ\text{C}$	<i>Pdh</i>	5,87	kW	$T_j = + 2 \text{ }^\circ\text{C}$	<i>COPd</i>	2,2	-
$T_j = + 7 \text{ }^\circ\text{C}$	<i>Pdh</i>	3,91	kW	$T_j = + 7 \text{ }^\circ\text{C}$	<i>COPd</i>	3,54	-
$T_j = + 12 \text{ }^\circ\text{C}$	<i>Pdh</i>	2,75	kW	$T_j = + 12 \text{ }^\circ\text{C}$	<i>COPd</i>	4,70	-
$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>Pdh</i>	5,55	kW	$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>COPd</i>	2,26	-
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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /63	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	2078	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,83	-
Rated heat output (**)	<i>P_{sup}</i>	0,13	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 09 / Τ.Θ. 100 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output *Prated* is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater *P_{sup}* is equal to the supplementary capacity for heating $sup(T_j)$.

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

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

Model: **ECONSET Hero Plus P10A**

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

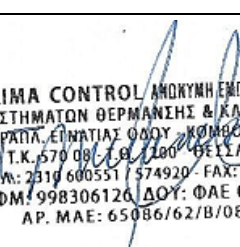
Parameters shall be declared for low-temperature application.

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	201	%
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>	10,46	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,12	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	6,63	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,82	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	5,71	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	6,05	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	10,46	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,12	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /65	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>QHE</i>	2598	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	5,11	-
Rated heat output (**)	<i>P_{sup}</i>	-	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>	10,0	kW	Seasonal space heating energy efficiency	η_s	159	%
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			
$T_j = + 2 \text{ }^\circ\text{C}$	<i>Pdh</i>	9,78	kW	$T_j = + 2 \text{ }^\circ\text{C}$	<i>COPd</i>	2,05	-
$T_j = + 7 \text{ }^\circ\text{C}$	<i>Pdh</i>	6,51	kW	$T_j = + 7 \text{ }^\circ\text{C}$	<i>COPd</i>	3,93	-
$T_j = + 12 \text{ }^\circ\text{C}$	<i>Pdh</i>	5,59	kW	$T_j = + 12 \text{ }^\circ\text{C}$	<i>COPd</i>	4,85	-
$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>Pdh</i>	9,21	kW	$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>COPd</i>	2,11	-
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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /65	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	3285	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	4,05	-
Rated heat output (**)	<i>P_{sup}</i>	0,22	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 100 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

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

Model: **ECONSET Hero Plus P10T**

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

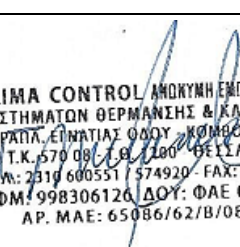
Parameters shall be declared for low-temperature application.

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	203	%
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>	10,57	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,11	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	6,60	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,88	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	5,62	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	6,10	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	10,57	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,11	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /65	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>QHE</i>	2576	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	5,15	-
Rated heat output (**)	<i>P_{sup}</i>	-	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>	10,0	kW	Seasonal space heating energy efficiency	η_s	154	%
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			
$T_j = + 2 \text{ }^\circ\text{C}$	<i>Pdh</i>	9,51	kW	$T_j = + 2 \text{ }^\circ\text{C}$	<i>COPd</i>	1,89	-
$T_j = + 7 \text{ }^\circ\text{C}$	<i>Pdh</i>	6,45	kW	$T_j = + 7 \text{ }^\circ\text{C}$	<i>COPd</i>	3,84	-
$T_j = + 12 \text{ }^\circ\text{C}$	<i>Pdh</i>	5,52	kW	$T_j = + 12 \text{ }^\circ\text{C}$	<i>COPd</i>	4,77	-
$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>Pdh</i>	9,15	kW	$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>COPd</i>	1,94	-
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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /65	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	3380	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,93	-
Rated heat output (**)	<i>P_{sup}</i>	0,49	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 100 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

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

Model: **ECONSET Hero Plus P17A**

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

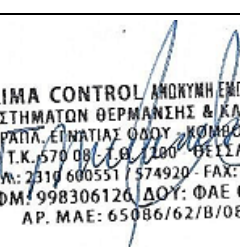
Parameters shall be declared for low-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	15,0	kW	Seasonal space heating energy efficiency	η_s	181	%
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>	15,33	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,19	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	9,71	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,33	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	7,20	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	5,18	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	15,33	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,19	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /69	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>QHE</i>	4351	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	4,59	-
Rated heat output (**)	<i>P_{sup}</i>	-	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>	15,0	kW	Seasonal space heating energy efficiency	η_s	153	%
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			
$T_j = + 2 \text{ }^\circ\text{C}$	<i>Pdh</i>	15,2	kW	$T_j = + 2 \text{ }^\circ\text{C}$	<i>COPd</i>	2,27	-
$T_j = + 7 \text{ }^\circ\text{C}$	<i>Pdh</i>	9,58	kW	$T_j = + 7 \text{ }^\circ\text{C}$	<i>COPd</i>	3,64	-
$T_j = + 12 \text{ }^\circ\text{C}$	<i>Pdh</i>	7,25	kW	$T_j = + 12 \text{ }^\circ\text{C}$	<i>COPd</i>	4,59	-
$T_j = \text{bivalent temperature }^\circ\text{C}$	<i>Pdh</i>	15,2	kW	$T_j = \text{bivalent temperature }^\circ\text{C}$	<i>COPd</i>	2,27	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /69	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	5131	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,89	-
Rated heat output (**)	<i>P_{sup}</i>	-	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 100 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output *Prated* is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater *P_{sup}* is equal to the supplementary capacity for heating $sup(T_j)$.

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

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

Model: **ECONSET Hero Plus P17T**

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

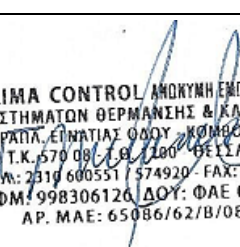
Parameters shall be declared for low-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	15,0	kW	Seasonal space heating energy efficiency	η_s	180	%
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>	15,41	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,22	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	7,79	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,76	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	7,20	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	5,18	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	15,41	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,22	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /69	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>QHE</i>	4364	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	4,58	-
Rated heat output (**)	<i>P_{sup}</i>	-	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>	15,0	kW	Seasonal space heating energy efficiency	η_s	153	%
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			
$T_j = + 2 \text{ }^\circ\text{C}$	<i>Pdh</i>	15,22	kW	$T_j = + 2 \text{ }^\circ\text{C}$	<i>COPd</i>	2,31	-
$T_j = + 7 \text{ }^\circ\text{C}$	<i>Pdh</i>	9,63	kW	$T_j = + 7 \text{ }^\circ\text{C}$	<i>COPd</i>	3,62	-
$T_j = + 12 \text{ }^\circ\text{C}$	<i>Pdh</i>	7,29	kW	$T_j = + 12 \text{ }^\circ\text{C}$	<i>COPd</i>	4,63	-
$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>Pdh</i>	15,22	kW	$T_j = \text{bivalent temperature } ^\circ\text{C}$	<i>COPd</i>	2,31	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /69	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	5109	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,91	-
Rated heat output (**)	<i>P_{sup}</i>	-	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 100 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.

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

Model: **ECONSET Hero Plus P24T**

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

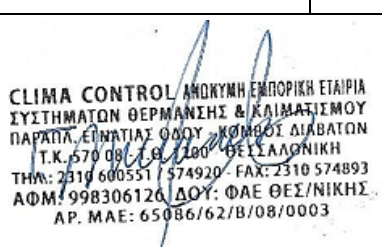
Parameters shall be declared for low-temperature application.

Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	<i>Prated</i>	20,33	kW	Seasonal space heating energy efficiency	η_s	187	%
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>	20,21	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	3,15	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	12,80	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	4,34	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	11,35	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	5,75	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	18,88	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	3,18	-
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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /70	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>QHE</i>	5692	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	4,76	-
Rated heat output (**)	<i>P_{sup}</i>	0,12	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>	20,2	kW	Seasonal space heating energy efficiency	η_s	148	%
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>	20,35	kW	$T_j = + 2 \text{ °C}$	<i>COPd</i>	2,24	-
$T_j = + 7 \text{ °C}$	<i>Pdh</i>	12,84	kW	$T_j = + 7 \text{ °C}$	<i>COPd</i>	3,36	-
$T_j = + 12 \text{ °C}$	<i>Pdh</i>	11,34	kW	$T_j = + 12 \text{ °C}$	<i>COPd</i>	4,71	-
$T_j = \text{bivalent temperature } \text{°C}$	<i>Pdh</i>	20,35	kW	$T_j = \text{bivalent temperature } \text{°C}$	<i>COPd</i>	2,24	-
Bivalent temperature	<i>Tbiv</i>	2	°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>	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	<i>P_{OFF}</i>	0,019	kW	Capacity control	variable		
Thermostat-off mode	<i>P_{TO}</i>	0,019	kW	Sound power level, indoors/outdoors	<i>LWA</i>	- /70	dB
Standby mode	<i>P_{SB}</i>	0,019	kW	Annual energy consumption	<i>Q_{HE}</i>	7110	kWh
Crankcase heater mode	<i>P_{CK}</i>	0,059	kW	Rated airflow rate, outdoors	-		m ³ /h
Supplementary heater				Seasonal Coefficient of Performance	<i>SCOP</i>	3,79	-
Rated heat output (**)	<i>P_{sup}</i>	-	kW				
Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece			 <p>CLIMA CONTROL ΑΝΩΚΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 180 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306120 ΔΟΥ: ΦΑΕ ΘΕΣ/ΝΙΚΗΣ ΑΡ. ΜΑΕ: 65086/62/Β/08/0003</p>			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output P_{rated} is equal to the design load for heating $P_{designh}$, and the rated heat output of a supplementary heater P_{sup} is equal to the supplementary capacity for heating $sup(T_j)$.

(**) If C_{dh} is not determined by measurement then the default degradation coefficient is $C_{dh} = 0,9$.