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 GreenTherm PASRW020-BP-PS-D**

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
Rated heat output (*)	*Prated*	7,45	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	7,45	kW
T_j = + 7 °C	*Pdh*	4,78	kW
T_j = + 12 °C	*Pdh*	2,45	kW
T_j = bivalent temperature °C	*Pdh*	7,45	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,042	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	238	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,16	-
T_j = + 7 °C	*COPd*	5,21	-
T_j = + 12 °C	*COPd*	7,78	-
T_j = bivalent temperature °C	*COPd*	3,16	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /60	dB
Annual energy consumption	Q_{HE}	1637	kWh
Rated airflow rate, outdoors	-	2400	m^3/h
Seasonal Coefficient of Performance	SCOP	6,03	-

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
Rated heat output (*)	*Prated*	7,4	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	6,65	kW
T_j = + 7 °C	*Pdh*	4,73	kW
T_j = + 12 °C	*Pdh*	2,12	kW
T_j = bivalent temperature °C	*Pdh*	6,87	kW
Bivalent temperature	T_{biv}	3	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,01	kW
Thermostat-off mode	P_{TO}	0,01	kW
Standby mode	P_{SB}	0,01	kW
Crankcase heater mode	P_{CK}	0,042	kW
Supplementary heater			
Rated heat output (**)	Psup	0,75	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	178	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,32	-
T_j = + 7 °C	*COPd*	3,88	-
T_j = + 12 °C	*COPd*	5,98	-
T_j = bivalent temperature °C	*COPd*	2,4	-
Operation limit temperature	*TOL*	2	°C
Heating water operating limit temperature	*WTOL*	60	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /60	dB
Annual energy consumption	Q_{HE}	2171	kWh
Rated airflow rate, outdoors	-	2400	m^3/h
Seasonal Coefficient of Performance	SCOP	4,52	-

Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

CLIMA CONTROL ΑΝΩΝΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ - ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 1180 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ.: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306126 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 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.

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

Model: **ECONSET GreenTherm PASRW040-BP-PS-D**

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
Rated heat output (*)	*Prated*	11,1	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	11,1	kW
T_j = + 7 °C	*Pdh*	7,26	kW
T_j = + 12 °C	*Pdh*	4,10	kW
T_j = bivalent temperature °C	*Pdh*	11,10	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,009	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,009	kW
Crankcase heater mode	P_{CK}	0,042	kW
Supplementary heater			
Rated heat output (**)	Psup	0	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	237,2	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,05	-
T_j = + 7 °C	*COPd*	5,21	-
T_j = + 12 °C	*COPd*	7,89	-
T_j = bivalent temperature °C	*COPd*	3,05	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /57	dB
Annual energy consumption	Q_{HE}	2454	kWh
Rated airflow rate, outdoors	-	3600	m^3/h
Seasonal Coefficient of Performance	SCOP	6,01	-

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
Rated heat output (*)	*Prated*	11	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	9,82	kW
T_j = + 7 °C	*Pdh*	7,11	kW
T_j = + 12 °C	*Pdh*	4,03	kW
T_j = bivalent temperature °C	*Pdh*	9,43	kW
Bivalent temperature	T_{biv}	4	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,009	kW
Thermostat-off mode	P_{TO}	0,009	kW
Standby mode	P_{SB}	0,009	kW
Crankcase heater mode	P_{CK}	0,042	kW
Supplementary heater			
Rated heat output (**)	Psup	1,2	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	176,0	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,02	-
T_j = + 7 °C	*COPd*	4,09	-
T_j = + 12 °C	*COPd*	6,29	-
T_j = bivalent temperature °C	*COPd*	2,12	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /57	dB
Annual energy consumption	Q_{HE}	3270	kWh
Rated airflow rate, outdoors	-	3600	m^3/h
Seasonal Coefficient of Performance	SCOP	4,47	-

Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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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 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.

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 GreenTherm PASRW040S-BP-PS-D**

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
Rated heat output (*)	*Prated*	11	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	11	kW
T_j = + 7 °C	*Pdh*	7,17	kW
T_j = + 12 °C	*Pdh*	4,39	kW
T_j = bivalent temperature °C	*Pdh*	11	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,008	kW
Thermostat-off mode	P_{TO}	0,008	kW
Standby mode	P_{SB}	0,008	kW
Crankcase heater mode	P_{CK}	0,064	kW
Supplementary heater			
Rated heat output (**)	Psup	0	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	233,6	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,06	-
T_j = + 7 °C	*COPd*	5,08	-
T_j = + 12 °C	*COPd*	7,94	-
T_j = bivalent temperature °C	*COPd*	3,06	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /58	dB
Annual energy consumption	Q_{HE}	2464	kWh
Rated airflow rate, outdoors	-	3600	m^3/h
Seasonal Coefficient of Performance	SCOP	5,91	-

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
Rated heat output (*)	*Prated*	11,3	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	9,66	kW
T_j = + 7 °C	*Pdh*	7,25	kW
T_j = + 12 °C	*Pdh*	4,29	kW
T_j = bivalent temperature °C	*Pdh*	9,69	kW
Bivalent temperature	T_{biv}	4	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,008	kW
Thermostat-off mode	P_{TO}	0,008	kW
Standby mode	P_{SB}	0,008	kW
Crankcase heater mode	P_{CK}	0,064	kW
Supplementary heater			
Rated heat output (**)	Psup	1,64	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	175,6	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	1,97	-
T_j = + 7 °C	*COPd*	4,11	-
T_j = + 12 °C	*COPd*	6,25	-
T_j = bivalent temperature °C	*COPd*	2,18	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /58	dB
Annual energy consumption	Q_{HE}	3361	kWh
Rated airflow rate, outdoors	-	3600	m³/h
Seasonal Coefficient of Performance	SCOP	4,46	-

Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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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 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.

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 GreenTherm PASRW060-BP-PS-D**

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
Rated heat output (*)	*Prated*	15,27	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	15,27	kW
T_j = + 7 °C	*Pdh*	9,82	kW
T_j = + 12 °C	*Pdh*	5,50	kW
T_j = bivalent temperature °C	*Pdh*	15,27	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,011	kW
Thermostat-off mode	P_{TO}	0,011	kW
Standby mode	P_{SB}	0,011	kW
Crankcase heater mode	P_{CK}	0,058	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	243	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,43	-
T_j = + 7 °C	*COPd*	5,29	-
T_j = + 12 °C	*COPd*	7,97	-
T_j = bivalent temperature °C	*COPd*	3,43	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /64	dB
Annual energy consumption	Q_{HE}	3301	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	6,14	-

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
Rated heat output (*)	*Prated*	14,28	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	14,28	kW
T_j = + 7 °C	*Pdh*	9,28	kW
T_j = + 12 °C	*Pdh*	5,36	kW
T_j = bivalent temperature °C	*Pdh*	14,28	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,011	kW
Thermostat-off mode	P_{TO}	0,011	kW
Standby mode	P_{SB}	0,011	kW
Crankcase heater mode	P_{CK}	0,058	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	191	%
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,56	-
T_j = + 7 °C	*COPd*	4,23	-
T_j = + 12 °C	*COPd*	6,26	-
T_j = bivalent temperature °C	*COPd*	2,56	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Power consumption in modes other than active mode			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /64	dB
Annual energy consumption	Q_{HE}	3924	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	4,85	-

Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

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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.

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 GreenTherm PASRW060S-BP-PS-D**

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
Rated heat output (*)	*Prated*	15,27	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	15,27	kW
T_j = + 7 °C	*Pdh*	9,85	kW
T_j = + 12 °C	*Pdh*	5,52	kW
T_j = bivalent temperature °C	*Pdh*	15,27	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,011	kW
Thermostat-off mode	P_{TO}	0,011	kW
Standby mode	P_{SB}	0,011	kW
Crankcase heater mode	P_{CK}	0,017	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	245	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	3,44	-
T_j = + 7 °C	*COPd*	5,27	-
T_j = + 12 °C	*COPd*	8,06	-
T_j = bivalent temperature °C	*COPd*	3,44	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Other items			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /62	dB
Annual energy consumption	Q_{HE}	3289	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	6,19	-

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
Rated heat output (*)	*Prated*	14,28	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*Pdh*	14,28	kW
T_j = + 7 °C	*Pdh*	9,20	kW
T_j = + 12 °C	*Pdh*	5,34	kW
T_j = bivalent temperature °C	*Pdh*	14,28	kW
Bivalent temperature	T_{biv}	2	°C
Degradation co-efficient (**)	*Cdh*	0.9	-
Power consumption in modes other than active mode			
Off mode	P_{OFF}	0,011	kW
Thermostat-off mode	P_{TO}	0,011	kW
Standby mode	P_{SB}	0,011	kW
Crankcase heater mode	P_{CK}	0,017	kW
Supplementary heater			
Rated heat output (**)	Psup	-	kW

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	η_S	191	**%**
Declared coefficient of performance or primary energyratio for part load at indoor temperature 20 °C and outdoor temperature T_j			
T_j = + 2 °C	*COPd*	2,53	-
T_j = + 7 °C	*COPd*	4,19	-
T_j = + 12 °C	*COPd*	6,35	-
T_j = bivalent temperature °C	*COPd*	2,53	-
Operation limit temperature	*TOL*	-25	°C
Heating water operating limit temperature	*WTOL*	75	°C
Power consumption in modes other than active mode			
Capacity control		variable	
Sound power level, indoors/outdoors	L_{WA}	- /62	dB
Annual energy consumption	Q_{HE}	3918	kWh
Rated airflow rate, outdoors	-	5000	m^3/h
Seasonal Coefficient of Performance	SCOP	4,86	-

Contact details	Clima Control S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece

CLIMA CONTROL ΑΝΩΝΥΜΗ ΕΜΠΟΡΙΚΗ ΕΤΑΙΡΙΑ ΣΥΣΤΗΜΑΤΩΝ ΘΕΡΜΑΝΣΗΣ & ΚΛΙΜΑΤΙΣΜΟΥ ΠΑΡΑΛΛ. ΕΓΝΑΤΙΑΣ ΟΔΟΥ - ΚΟΜΒΟΣ ΔΙΑΒΑΤΩΝ Τ.Κ. 570 08 / Τ.Θ. 1180 ΘΕΣΣΑΛΟΝΙΚΗ ΤΗΛ.: 2310 600551 / 574920 - FAX: 2310 574893 ΑΦΜ: 998306126 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 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.