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 EasyTherm A-06**

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

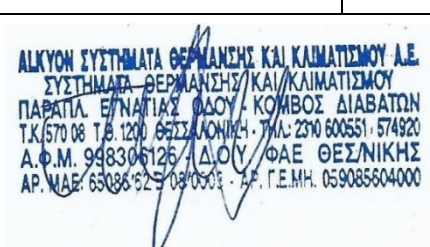Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	$Prated$	5,6	kW	**Seasonal space heating energy efficiency**	η_S	209	**%**
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 °C	Pdh	5,6	kW	T_j = + 2 °C	$COPd$	3,24	-
T_j = + 7 °C	Pdh	3,6	kW	T_j = + 7 °C	$COPd$	4,77	-
T_j = + 12 °C	Pdh	1,6	kW	T_j = + 12 °C	$COPd$	6,43	-
T_j = bivalent temperature °C	Pdh	5,6	kW	T_j = bivalent temperature °C	$COPd$	3,24	-
Bivalent temperature	T_{biv}	2	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /54	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	1408	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	5,31	-
Rated heat output (**)	Psup	-	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 (*)	$Prated$	5,1	kW	**Seasonal space heating energy efficiency**	η_S	151	%
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			
$T_j = +2\ °C$	Pdh	5,1	kW	$T_j = +2\ °C$	$COPd$	2,15	-
$T_j = +7\ °C$	Pdh	3,1	kW	$T_j = +7\ °C$	$COPd$	3,49	-
$T_j = +12\ °C$	Pdh	1,5	kW	$T_j = +12\ °C$	$COPd$	4,66	-
$T_j = $ bivalent temperature °C	Pdh	5,1	kW	$T_j = $ bivalent temperature °C	$COPd$	2,15	-
Bivalent temperature	T_{biv}	2	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /54	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	1770	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	3,84	-
Rated heat output (**)	Psup	-	kW				

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

(*) 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

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Model: **ECONSET EasyTherm A-08**

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 (*)	$Prated$	8,6	kW	**Seasonal space heating energy efficiency**	η_S	204	**%**
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 °C	Pdh	8,6	kW	T_j = + 2 °C	$COPd$	3,58	-
T_j = + 7 °C	Pdh	5,5	kW	T_j = + 7 °C	$COPd$	4,53	-
T_j = + 12 °C	Pdh	2,5	kW	T_j = + 12 °C	$COPd$	6,24	-
T_j = bivalent temperature °C	Pdh	8,6	kW	T_j = bivalent temperature °C	$COPd$	3,58	-
Bivalent temperature	T_{biv}	2	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /57	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	2210	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	5,18	-
Rated heat output (**)	Psup	-	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 (*)	$Prated$	8,1	kW	**Seasonal space heating energy efficiency**	η_S	151	%
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 °C	Pdh	8,0	kW	T_j = + 2 °C	$COPd$	2,12	-
T_j = + 7 °C	Pdh	5,1	kW	T_j = + 7 °C	$COPd$	3,34	-
T_j = + 12 °C	Pdh	2,3	kW	T_j = + 12 °C	$COPd$	4,91	-
T_j = bivalent temperature °C	Pdh	7,4	kW	T_j = bivalent temperature °C	$COPd$	2,36	-
Bivalent temperature	T_{biv}	3	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /6 1	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	2758	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	3,87	-
Rated heat output (**)	Psup	0,1	kW				
Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece						

(*) 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

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Model: **ECONSET EasyTherm A-10**

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
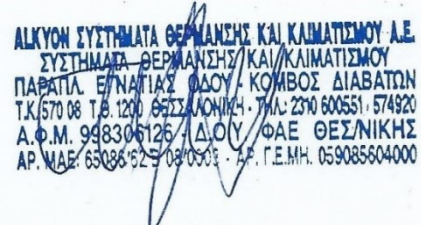
Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	P_{rated}	10,6	kW	**Seasonal space heating energy efficiency**	η_S	200	**%**
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 °C	Pdh	10,6	kW	T_j = + 2 °C	$COPd$	3,44	-
T_j = + 7 °C	Pdh	6,8	kW	T_j = + 7 °C	$COPd$	4,62	-
T_j = + 12 °C	Pdh	3,0	kW	T_j = + 12 °C	$COPd$	5,86	-
T_j = bivalent temperature °C	Pdh	10,6	kW	T_j = bivalent temperature °C	$COPd$	3,44	-
Bivalent temperature	T_{biv}	2	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /58	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	2796	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	5,06	-
Rated heat output (**)	Psup	-	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 (*)	$Prated$	8,6	kW	**Seasonal space heating energy efficiency**	η_S	149	%
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 °C	Pdh	8,6	kW	T_j = + 2 °C	$COPd$	1,93	-
T_j = + 7 °C	Pdh	5,6	kW	T_j = + 7 °C	$COPd$	3,41	-
T_j = + 12 °C	Pdh	2,5	kW	T_j = + 12 °C	$COPd$	4,71	-
T_j = bivalent temperature °C	Pdh	8,0	kW	T_j = bivalent temperature °C	$COPd$	2,33	-
Bivalent temperature	T_{biv}	2	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /6 2	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	3028	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	3,80	-
Rated heat output (**)	Psup	-	kW				

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

(*) 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 EasyTherm A-15**

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

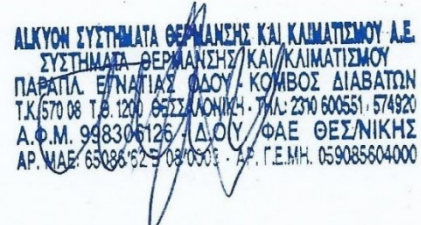Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	$Prated$	14,6	kW	**Seasonal space heating energy efficiency**	η_S	208	%
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 °C	Pdh	14,1	kW	T_j = + 2 °C	$COPd$	3,81	-
T_j = + 7 °C	Pdh	9,4	kW	T_j = + 7 °C	$COPd$	4,97	-
T_j = + 12 °C	Pdh	6,4	kW	T_j = + 12 °C	$COPd$	6,15	-
T_j = bivalent temperature °C	Pdh	13,6	kW	T_j = bivalent temperature °C	$COPd$	3,97	-
Bivalent temperature	T_{biv}	3	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /59	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	3694	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	5,24	-
Rated heat output (**)	Psup	0,5	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 (*)	$Prated$	13,6	kW	**Seasonal space heating energy efficiency**	η_S	166	%
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 °C	Pdh	12,8	kW	T_j = + 2 °C	$COPd$	2,41	-
T_j = + 7 °C	Pdh	8,7	kW	T_j = + 7 °C	$COPd$	3,72	-
T_j = + 12 °C	Pdh	6,8	kW	T_j = + 12 °C	$COPd$	5,67	-
T_j = bivalent temperature °C	Pdh	12,6	kW	T_j = bivalent temperature °C	$COPd$	2,53	-
Bivalent temperature	T_{biv}	3	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /6 3	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	4247	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	4,24	-
Rated heat output (**)	Psup	0,8	kW				
Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece						

(*) 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 EasyTherm A-19**

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

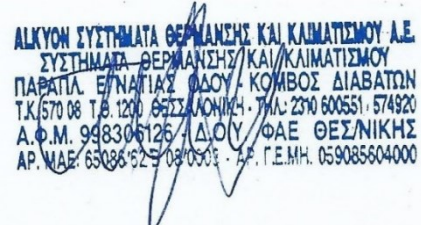Parameters shall be declared for low-temperature application.
Parameters shall be declared for warmer climate conditions.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	$Prated$	17,5	kW	**Seasonal space heating energy efficiency**	η_S	205	**%**
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 °C	Pdh	16,5	kW	T_j = + 2 °C	$COPd$	3,57	-
T_j = + 7 °C	Pdh	11,3	kW	T_j = + 7 °C	$COPd$	4,91	-
T_j = + 12 °C	Pdh	8,2	kW	T_j = + 12 °C	$COPd$	6,2	-
T_j = bivalent temperature °C	Pdh	16,3	kW	T_j = bivalent temperature °C	$COPd$	3,7	-
Bivalent temperature	T_{biv}	3	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /61	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	4484	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	5,18	-
Rated heat output (**)	Psup	1	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 (*)	$Prated$	16,5	kW	**Seasonal space heating energy efficiency**	η_S	168	%
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 °C	Pdh	15.58	kW	T_j = + 2 °C	$COPd$	2.36	-
T_j = + 7 °C	Pdh	10.6	kW	T_j = + 7 °C	$COPd$	3.71	-
T_j = + 12 °C	Pdh	7.6	kW	T_j = + 12 °C	$COPd$	5.79	-
T_j = bivalent temperature °C	Pdh	15,3	kW	T_j = bivalent temperature °C	$COPd$	2,6	-
Bivalent temperature	T_{biv}	3	°C	Operation limit temperature	TOL	2	°C
Degradation co-efficient (**)	Cdh	0.9	-	Heating water operating limit temperature	$WTOL$	60	°C
Power consumption in modes other than active mode				Other items			
Off mode	P_{OFF}	0,02	kW	Capacity control		variable	
Thermostat-off mode	P_{TO}	0,02	kW	Sound power level, indoors/outdoors	L_{WA}	- /6 4	dB
Standby mode	P_{SB}	0,02	kW	Annual energy consumption	Q_{HE}	5102	kWh
Crankcase heater mode	P_{CK}	0,05	kW	Rated airflow rate, outdoors	-		m³/h
Supplementary heater				Seasonal Coefficient of Performance	SCOP	4.3	-
Rated heat output (**)	Psup	0.92	kW				
Contact details	ALKYON S.A. Parallel of Egnatia Street, Diavata Junction Thessaloniki, Greece						

(*) 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.