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

COMMISSION REGULATION (EU) No 813/2013 of 2 August 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign

requirements for space heaters and combination heaters. ANNEX II, point 5, Table 2.

COMMISSION DELEGATED REGULATION (EU) No 811/2013 of 18 February 2013 supplementing Directive 2010/30/EU of the European Parliament and of the Council with

regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T14			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	x Average			o Colder	o Warmer		
Temperature application	x Medium (55	5°C)		o Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	11	kW	Seasonal space heating energy efficiency	ηs	126	%
Declared capacity for heating for part l	oad at indoor te	mperature	20 °C and	Declared coefficient of performance or p	orimary energy	ratio for pa	rt load a
outdoor temperature Tj				indoor temperature 20 °C and outdoor to	emperature Tj		
Tj = - 7°C	Pdh	9.8	kW	T: 7%C	6004	1.02	
Degradation co-efficient	Cdh	0.99	-	— Tj = - 7°C	COPd	1.92	_
Tj = + 2°C	Pdh	6.0	kW	Tj = + 2°C	COPd	3.12	_
Degradation co-efficient	Cdh	0.99	-				-
Tj = + 7°C	Pdh	7.3	kW	Tj = + 7°C	COPd	4.25	
Degradation co-efficient	Cdh	0.99	-				-
Tj = + 12°C	Pdh	9.5	kW	T 12%C	COPd	6.49	_
Degradation co-efficient	Cdh	0.98	-	Tj = + 12°C			-
Tj = bivalent temperature	Pdh	9.8	kW	Tj = bivalent temperature	COPd	1.95	-
Tj = operation limit temperature	Pdh	10.1	kW	Tj = operation limit temperature	COPd	1.78	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes othe	r than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTO	0.018	kW	·			
Standby mode	PSB	0.018	kW	Type of energy input		-	
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/ł
Sound power level, indoors/ outdoors	LWA	-/70	dB	Rated brine or water flow rate, outdoor	_	-	m3/h
Annual energy consumption	QHE	7123	kWh	heat exchanger			
				Fondital	S.p.A		

Contact details

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

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T14			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	o Average			x Colder	o Warmer		
Temperature application	x Medium (55	5°C)		o Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	10	kW	Seasonal space heating energy efficiency	, ηs	103	%
Declared capacity for heating for part lo outdoor temperature Tj	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or pl indoor temperature 20 °C and outdoor te		ratio for pa	rt load a
Tj = - 7°C	Pdh	6.9	kW	T: 7%C	60.0.1	2.44	
Degradation co-efficient	Cdh	0.99	-	– Tj = - 7°C	COPd	2.11	-
Tj = + 2°C	Pdh	6.0	kW	Tj = + 2°C	COPd	2.98	-
Degradation co-efficient	Cdh	0.99	-				
Tj = + 7°C	Pdh	7.4	kW	Tj = + 7°C	COPd	4.66	
Degradation co-efficient	Cdh	0.99	-				-
Tj = + 12°C	Pdh	9.7	kW	T:	60.0.1	c 02	
Degradation co-efficient	Cdh	0.99	-	Tj = + 12°C	COPd	6.92	-
Tj = bivalent temperature	Pdh	7.9	kW	Tj = bivalent temperature	COPd	1.83	-
Tj = operation limit temperature	Pdh	8.1	kW	Tj = operation limit temperature	COPd	1.50	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	7.9	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.83	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C
· · · · · · · · · · · · · · · · · · ·				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.000	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTO	0.025	kW				
Standby mode	PSB	0.025	kW	Type of energy input		-	
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/70	dB	Rated brine or water flow rate, outdoor	_	_	m3/h
				heat exchanger			

Contact details

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

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

· · ·						
			PROCIDA AWM T14			
x Yes	o No					
o Yes	x No					
o Yes	x No					
o Yes	x No					
o Yes	x No					
o Yes	x No					
o Average			o Colder	x Warmer		
x Medium (55	5°C)		o Low (35°C)			
EN14825						
Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	8	kW	Seasonal space heating energy efficiency	ηs	150	%
ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	rimary energy	ratio for pa	rt load a
			indoor temperature 20 °C and outdoor to	emperature Tj		
Pdh	-	kW	Tj = - 7°C			
Cdh	-	-		СОРа	-	-
Pdh	7.8	kW	Tj = + 2°C	COPd	2.20	-
Cdh	0.99	-			2.26	
Pdh	6.5	kW	Tj = + 7°C	COPd	2.96	
Cdh	0.99	-				-
Pdh	9.5	kW	T: . 12%C	COPd	5.49	
Cdh	0.98	-	IJ = + 12 C			-
Pdh	7.8	kW	Tj = bivalent temperature	COPd	2.26	-
Pdh	7.8	kW	Tj = operation limit temperature	COPd	2.26	-
Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
			Cycling interval efficiency	COPcyc	-	-
Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
than active n	node		Supplementary heater			
POFF	0.018	kW	Rated heat output	Psup	-	kW
РТО	0.018	kW				
PSB	0.018	kW	Type of energy input		-	
РСК	0.000	kW				
	variable		Rated air flow rate, outdoors	-	4500	m3/h
1						
LWA	-/70	dB	Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h
	o Yes o Yes o Yes o Yes o Yes o Average x Medium (55 EN14825 Symbol Prated Pdh Cdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Pdh Pdh Ch PB PDFF PTO PSB	o Yes x No o Average x No x Medium (55°C) EN14825 Symbol Value Prated 8 at indoor temperature 3 Pdh - Cdh 0.99 Pdh 7.8 Cdh 0.99 Pdh 9.5 Cdh 0.99 Pdh 7.8 Pdh 7.8 Pdh 7.8 Pdh - Tbiv 2 Pcych - POFF 0.018 PCK 0.000	o Yes x No o Average x No x Medium (55°C) EN14825 EN14825 Value Unit Prated 8 kW cdat at indoor temperature 20 °C and Cdh Pdh - KW Cdh 0.99 - Pdh 7.8 kW Cdh 0.99 - Pdh 7.8 kW Cdh 0.98 - Pdh 7.8 kW Pdh -	x Yeso Noo Yesx Noo Averageo Colderx Medium (55°C)o Low (35°C)EN14825ItemSasonal space heating energy efficiencyPdh-Pdh-Pdh-Pdh-Pdh-Pdh7.8Cdh0.99Pdh7.8Pdh-Pdh7.8Pdh-Pdh7.8Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-VPdh-Pdh-Pdh-Pdh-Pdh-Pd	x Yeso Noo Yesx Noo Averageo Colderx Medium (55°C)o Low (35°C)EN14825ItemSymbolValueValueUnitPath-kWSeasonal space heating energy endor temperature 20 °C and outdoor temperature Tj Tj = - 7°CPdh-CdhPdh-Cdh0.99-Pdh5KWCdh0.98-Pdh7.8KWCdh0.98-Pdh7.8KWPdh7.8KWPdh7.8KWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kWPdh-kW <td>x Yeso Noo Yesx Noo Averageo Colderx Medium (55°C)o Low (35°C)EN14825Seasonal space heating energy efficiencypada at indoor temperature 20 °C andad at indoor temperature 20 °C andCdh-Pdh-KWCdh0.99-Pdh- SKWCdh0.99-Pdh7.8KWCdh0.98-Pdh- KWTj = bivalent temperatureCOPd2.26Pdh- KWPorph- KWPorph- KWPorph- KWPorph0.018POFF0.018PCK0.000KW</td>	x Yeso Noo Yesx Noo Averageo Colderx Medium (55°C)o Low (35°C)EN14825Seasonal space heating energy efficiencypada at indoor temperature 20 °C andad at indoor temperature 20 °C andCdh-Pdh-KWCdh0.99-Pdh- SKWCdh0.99-Pdh7.8KWCdh0.98-Pdh- KWTj = bivalent temperatureCOPd2.26Pdh- KWPorph- KWPorph- KWPorph- KWPorph0.018POFF0.018PCK0.000KW

Contact details

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

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

Model(s)				PROCIDA AWM T14			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	x Average			o Colder	o Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	11	kW	Seasonal space heating energy efficiency	ηs	170	%
Declared capacity for heating for part log	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p		ratio for pa	rt load at
outdoor temperature Tj Tj = - 7°C	Pdh	10.1	kW	indoor temperature 20 °C and outdoor te	inperature IJ		
•			K VV	Tj = - 7°C	COPd	2.84	-
Degradation co-efficient Ti = + 2°C	Cdh Pdh	0.99 6.2	-		COPd		
			kW	Tj = + 2°C		4.06	-
Degradation co-efficient	Cdh Pdh	0.98	-				
Tj = + 7°C			kW	Tj = + 7°C	COPd	5.82	-
Degradation co-efficient	Cdh	0.98	-				
Tj = + 12°C	Pdh	9.6	kW	Tj = + 12°C	COPd	8.21	-
Degradation co-efficient	Cdh	0.97	-	-			
Tj = bivalent temperature	Pdh	10.1	kW	Tj = bivalent temperature	COPd	2.84	-
Tj = operation limit temperature	Pdh	10.0	kW	Tj = operation limit temperature	COPd	2.43	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	1,4	kW
Thermostat-off mode	PTO	0.018	kW		· · ·		
Standby mode	PSB	0.018	kW	Type of energy input		Electric	
Crankcase heater mode	PCK	0.010	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/70	dB	Rated brine or water flow rate, outdoor	-	-	m3/h
Annual energy consumption	QHE	5448	kWh	heat exchanger			
Contact details				Fondital Via Cerreto 40, 25079 \	-	- Italv	

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

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requirements for space heaters and combination heaters. ANNEX II, point 5, Table 2.

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regard to the energy labelling of space heaters, combination heaters, packages of space heater, temperature control and solar device and packages of combination heater,

temperature control and solar device. ANNEX V, Table 8.

·							
Model(s)				PROCIDA AWM T14			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	o Average			x Colder	o Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	9	kW	Seasonal space heating energy efficiency	ηs	138	%
Declared capacity for heating for part lo outdoor temperature Tj	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p indoor temperature 20 °C and outdoor to		ratio for pa	rt load at
Ti = - 7°C	Pdh	7.1	kW				
Degradation co-efficient	Cdh	0.98	-	Tj = - 7°C	COPd	2.93	-
Tj = + 2°C	Pdh	5.6	kW	T:	COPd	4.04	
Degradation co-efficient	Cdh	0.98	-	Tj = + 2°C			-
Tj = + 7°C	Pdh	7.8	kW	Tj = + 7°C	COPd	5.94	
Degradation co-efficient	Cdh	0.97	-				-
Tj = + 12°C	Pdh	9.8	kW	Ti = + 12°C	COD4	0.20	
Degradation co-efficient	Cdh	0.97	-	IJ = + 12 C	COPd	8.26	-
Tj = bivalent temperature	Pdh	7.6	kW	Tj = bivalent temperature	COPd	2.22	-
Tj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.01	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	7.6	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.22	-
Bivalent temperature	Tbiv	-15	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTO	0.018	kW		- P		
Standby mode	PSB	0.018	kW	Type of energy input			
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/70	dB	Rated brine or water flow rate, outdoor	_	-	m3/h
Annual energy consumption	QHE	6476	kWh	heat exchanger			
Contact details				Fondital Via Cerreto 40, 25079	•	- Italy	

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

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•							
Model(s)				PROCIDA AWM T14			
Air-to-water heat pump	x Yes	o No					
Water-to-water heat pump	o Yes	x No					
Brine-to-water heat pump	o Yes	x No					
Low-temperature heat pump	o Yes	x No					
Equipped with a supplementary heater	o Yes	x No					
Heat pump combination heater	o Yes	x No					
Climate conditions	o Average			o Colder	x Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	12	kW	Seasonal space heating energy efficiency	ηs	229	%
Declared capacity for heating for part lo	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	orimary energy	ratio for pa	rt load a
outdoor temperature Tj				indoor temperature 20 °C and outdoor to	emperature Tj		
Tj = - 7°C	Pdh	-	kW	T: 7°C	CODd		
Degradation co-efficient	Cdh	-	-	Tj = - 7°C	COPd	-	-
Tj = + 2°C	Pdh	11.8	kW	T	COD4	2.4.4	
Degradation co-efficient	Cdh	0.99	-	Tj = + 2°C	COPd	3.14	-
Tj = + 7°C	Pdh	8.4	kW	Tj = + 7°C	COPd	F 40	
Degradation co-efficient	Cdh	0.98	-			5.10	-
Tj = + 12°C	Pdh	9.6	kW	T: _ + 12°C	COD4		
Degradation co-efficient	Cdh	0.97	-	Tj = + 12°C	COPd	7.39	-
Tj = bivalent temperature	Pdh	11.8	kW	Tj = bivalent temperature	COPd	3.14	-
Tj = operation limit temperature	Pdh	11.8	kW	Tj = operation limit temperature	COPd	3.14	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW	Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Bivalent temperature	Tbiv	2	°C	Operation limit temperature	TOL	-25	°C
				Cycling interval efficiency	COPcyc	-	-
Cycling interval capacity for heating	Pcych	-	kW	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other	r than active n	node		Supplementary heater			
Off mode	POFF	0.018	kW	Rated heat output	Psup	0,2	kW
Thermostat-off mode	РТО	0.018	kW				
Standby mode	PSB	0.018	kW	Type of energy input	Electric		
Crankcase heater mode	РСК	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/70	dB	Rated brine or water flow rate, outdoor	-	_	m3/h
	1			heat exchanger			,.
Annual energy consumption	QHE	2717	kWh				

Contact details