#### 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.

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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.

temperature control and solar device. ANNE	X V, Table 8.								
Model(s)		PROCIDA AWM X16							
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	13	kW	Seasonal space heating energy efficiency	ηs	125	%		
Declared capacity for heating for part lo	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or	primary energy	ratio for pa	rt load a		
outdoor temperature Tj				indoor temperature 20 °C and outdoor	temperature Tj				
Tj = - 7°C	Pdh	11.2	kW	Tj = - 7°C	COPd	1.96			
Degradation co-efficient	Cdh	0.99	-				-		
Tj = + 2°C	Pdh	6.8	kW	Tj = + 2°C	COPd	3.06	_		
Degradation co-efficient	Cdh	0.99	-				-		
Тј = + 7°С	Pdh	7.3	kW	Tj = + 7°C	COPd	4.25	_		
Degradation co-efficient	Cdh	0.99	-						
Tj = + 12°C	Pdh	9.5	kW	Ti - + 12°C	CODI	6.50	_		
Degradation co-efficient	Cdh	0.98	-	Tj = + 12°C	COPd	6.50	-		
Tj = bivalent temperature	Pdh	11.2	kW	Tj = bivalent temperature	COPd	1.98	-		
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 other	than active n	node		Supplementary heater					
Off mode	POFF	0.025	kW	Rated heat output	Psup	3,0	kW		
Thermostat-off mode	PTO	0.025	kW						
Standby mode	PSB	0.020	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	-/72	dB	Rated brine or water flow rate, outdoor		-	m3/h		
Annual energy consumption	OHE	8161	kWh	heat exchanger					

Contact details

Annual energy consumption

QHE

8161

kWh

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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 X16			
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	ъ°С)		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	100	%
Declared capacity for heating for part lo	ad at indoor to	mperature	bac 2° 00	Declared coefficient of performance or p	rimary operay	ratio for pa	rt load a
outdoor temperature Tj		mperature 2		indoor temperature 20 °C and outdoor te			i t ioau a
Ti = $-7^{\circ}$ C	Pdh	70	1.1.47				
,	Cdh	7.8 0.99	kW -	Tj = - 7°C	COPd	1.91	-
Degradation co-efficient Ti = + 2°C	Pdh	6.0					
Degradation co-efficient	Cdh	0.99	kW	Tj = + 2°C	COPd	2.99	-
Ti = + 7°C			-				
,	Pdh Cdh	7.4	kW	Tj = + 7°C	COPd	4.66	-
Degradation co-efficient		0.99	-				
Tj = + 12°C	Pdh	9.7	kW	Tj = + 12°C	COPd	6.96	-
Degradation co-efficient	Cdh	0.99	-			1.00	
Tj = bivalent temperature	Pdh	8.9	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operation limit temperature	Pdh	8.0	kW	Tj = operation limit temperature	COPd	1.51	-
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	8.9	kW	Tj = - 15 °C (if TOL < - 20 °C)	COPd	1.86	-
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	0.025	kW	Rated heat output	Psup	3,0	kW
Thermostat-off mode	PTO	0.025	kW				
Standby mode	PSB	0.020	kW	Type of energy input	Electric		
Crankcase heater mode	PCK	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	-	-	m3/h
Annual energy consumption	QHE	10540	kWh	heat exchanger			
Contact details				Fondital : Via Cerreto 40. 25079 \	•	Italy	

Via Cerreto 40, 25079 Vobarno (BS) - Italy

#### 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 X16				
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	x Medium (55	5°C)		o 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	150	%	
Declared capacity for heating for part le	oad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	rimary energy	ratio for pa	rt load a	
outdoor temperature Tj				indoor temperature 20 °C and outdoor te	emperature Tj			
Tj = - 7°C	Pdh	-	kW	Ti _ 7°C	COD4	_		
Degradation co-efficient	Cdh	-	-	Tj = - 7°C	COPd	-	-	
Tj = + 2°C	Pdh	8.8	kW	Ti - + 2°C	60D.I	2.10	_	
Degradation co-efficient	Cdh	1.00	-	Tj = + 2°C	COPd	2.16	-	
Tj = + 7°C	Pdh	6.5	kW	Tj = + 7°C	COPd	2.97	_	
Degradation co-efficient	Cdh	0.99	-				_	
Tj = + 12°C	Pdh	9.5	kW	Ti - + 12°C	COD4	F F 2	_	
Degradation co-efficient	Cdh	0.98	-	Tj = + 12°C	COPd	5.52	-	
Tj = bivalent temperature	Pdh	8.8	kW	Tj = bivalent temperature	COPd	2.16	-	
Tj = operation limit temperature	Pdh	8.8	kW	Tj = operation limit temperature	COPd	2.16	-	
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 othe	r than active n	node		Supplementary heater				
Off mode	POFF	0.025	kW	Rated heat output	Psup	-	kW	
Thermostat-off mode	РТО	0.025	kW					
Standby mode	PSB	0.020	kW	Type of energy input		-		
Crankcase heater mode	PCK	0.000	kW					
Other items								
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/ł	
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	-	-	m3/h	
Annual energy consumption	QHE	3072	kWh	heat exchanger				
				Fondital	S.p.A			

Contact details

Fondital S.p.A Via Cerreto 40, 25079 Vobarno (BS) - Italy

#### 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 X16			
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 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	13	kW	Seasonal space heating energy efficiency	ηs	166	%
Declared capacity for heating for part lo	ad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	rimary energy	ratio for pa	rt load at
outdoor temperature Tj				indoor temperature 20 °C and outdoor te	emperature Tj		
Tj = - 7°C	Pdh	11.4	kW	Tj = - 7°C	COPd	2.64	
Degradation co-efficient	Cdh	1.00	-	ij / C	COPa	2.04	
Tj = + 2°C	Pdh	7.0	kW	Tj = + 2°C	COPd	3.98	
Degradation co-efficient	Cdh	0.98	-	IJ = + 2 C	COPU	5.90	-
Tj = + 7°C	Pdh	7.7	kW	Tj = + 7°C	COPd	5.82	
Degradation co-efficient	Cdh	0.98	-				-
Tj = + 12°C	Pdh	9.6	kW	T: . 10%C	60D.I	0.24	
Degradation co-efficient	Cdh	0.97	-	Tj = + 12°C	COPd	8.21	-
Tj = bivalent temperature	Pdh	11.4	kW	Tj = bivalent temperature	COPd	2.64	-
Tj = operation limit temperature	Pdh	10.8	kW	Tj = operation limit temperature	COPd	2.42	-
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 WTOL 60	60	°C	
				temperature			
Power consumption in modes other	than active n	node		Supplementary heater			
Off mode	POFF	0.025	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	PTO	0.025	kW				
Standby mode	PSB	0.020	kW	Type of energy input	-		
Crankcase heater mode	РСК	0.010	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	_	-	m3/h
Annual energy consumption	QHE	6284	kWh	heat exchanger			
Contact details				Fondital S Via Cerreto 40, 25079 V	•	- Italy	

#### 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 X16			
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					
ow-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 of the second se	o Average			x Colder	o Warmer		
Temperature application	o Medium (55	5°C)		x Low (35°C)			
Applied Standards	EN14825						
tem	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	11	kW	Seasonal space heating energy efficiency	ηs	135	%
Declared capacity for heating for part load	d at indoor te	mperature 2	20 °C and	Declared coefficient of performance or pr	rimary energy	ratio for pa	rt load a
outdoor temperature Tj				indoor temperature 20 °C and outdoor te	mperature Tj		
Гј = - 7°С	Pdh	8.0	kW	Tj = - 7°C	COPd	2.83	_
Degradation co-efficient	Cdh	0.98	-	ij / C	COFU	2.05	
Гј = + 2°С	Pdh	6.3	kW	Tj = + 2°C	COPd	3.98	_
Degradation co-efficient	Cdh	0.98	-	1) - 1 2 0	coru	5.50	
Гј = + 7°С	Pdh	7.8	kW	Tj = + 7°C	COPd	5.93	_
Degradation co-efficient	Cdh	0.97	-		coru	5.55	
Гј = + 12°С	Pdh	9.8	kW	Tj = + 12°C	COPd	8.26	-
Degradation co-efficient	Cdh	0.97	-				
Γj = bivalent temperature	Pdh	8.7	kW	Tj = bivalent temperature	COPd	2.22	-
Γj = operation limit temperature	Pdh	9.2	kW	Tj = operation limit temperature	COPd	2.01	-
Γj = − 15 °C (if TOL < − 20 °C)	Pdh	8.7	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 t	han active n	node		Supplementary heater			
Off mode	POFF	0.025	kW	Rated heat output	Psup	-	kW
Thermostat-off mode	РТО	0.025	kW		· · · · · · · · · · · · · · · · · · ·		
Standby mode	PSB	0.020	kW	Type of energy input		-	
Crankcase heater mode	PCK	0.000	kW				
Other items							
Capacity control		variable		Rated air flow rate, outdoors	-	4500	m3/h
Sound power level, indoors/ outdoors	LWA	-/72	dB	Rated brine or water flow rate, outdoor	-	-	m3/h
Annual energy consumption	QHE	7555	kWh	heat exchanger			

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

			PROCIDA AWM X16			
x Yes	o No					
o Yes	x No					
o Yes	x No					
o Yes	x No					
r o Yes	x No					
o Yes	x No					
o Average			o Colder	x Warmer		
o Medium (55	5°C)		x Low (35°C)			
EN14825						
Symbol	Value	Unit	Item	Symbol	Value	Unit
Prated	13	kW	Seasonal space heating energy efficiency	ηs	227	%
oad at indoor te	mperature 2	20 °C and	Declared coefficient of performance or p	rimary energy	ratio for pa	rt load at
			indoor temperature 20 °C and outdoor te	emperature Tj		
Pdh	-	kW	T: _ 7°C	COD4		
Cdh	-	-	IJ = - / C	СОРа	-	-
Pdh	13.2	kW	Tj = + 2°C	COPd	3.04	
Cdh	0.99	-				-
Pdh	8.4	kW	Tj = + 7°C		5.10	
Cdh	0.98	-		COPd		-
Pdh	9.6	kW	T 12%C		7.00	
Cdh	0.97	-	$I_{J} = +12^{-1}C$	COPa	7.39	-
Pdh	13.2	kW	Tj = bivalent temperature	COPd	3.04	-
Pdh	13.2	kW	Tj = operation limit temperature	COPd	3.04	-
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
r than active n	node		Supplementary heater			
POFF	0.025	kW	Rated heat output	Psup	-	kW
РТО	0.025	kW				
PSB	0.020	kW	Type of energy input	-		
PCK	0.000	kW				
	variable		Rated air flow rate, outdoors	-	4500	m3/h
LWA	-/72	dB	Rated brine or water flow rate, outdoor			o.//
	,		heat exchanger	-	-	m3/h
	o Yes o Yes o Yes o Yes o Yes o Yes o Average o Medium (St EN14825 <b>Symbol</b> <b>Prated</b> ood at indoor te Pdh Cdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Cdh Pdh Pdh Pdh Cdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh Pdh P	o Yes   x No     o Average   o Medium (55°C)     EN14825   Value     Prated   13     odat indoor temperature 3   13     Cdh   0.99     Pdh   13.2     Cdh   0.97     Pdh   13.2     Pdh   13.2     Pdh   13.2     Pdh   13.2     Pdh   13.2     Pdh   -     Tbiv   2     Pcych   -     POFF   0.025     PSB   0.020     PCK   0.000	o Yes x No   o Average 0 Yes   o Medium (55°C) EN14825   EN14825 Unit   Prated 13   Pdh 13.2   KW Cdh 0.99   O Cdh 0.97 -   Pdh 13.2 kW   Cdh 0.97 -   Pdh 13.2 kW   Pdh - kW   Pdh - kW	x Yeso Noo Yesx Noo Averageo Coldero Averageo Colderwidth (55°C)x Low (35°C)EN14825YalueUnitYemPated13kWCdhCdh0.99Cdh0.99Pdh13.2Pdh13.2Pdh13.2Pdh13.2Pdh13.2Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pdh-Pcych-PCF0.025PCK0.000PCKPCK0.000NoPCKNo	x Yeso Noo Yesx Noo Averageo Coldery Agoy Agoo At indoor temperature 20 "C and outdoor temperature TjTj = - 7°CCOPdTj = + 2°CCOPdTj = + 12°CCOPdTj = + 12°CCOPdTj = + 12°CCOPdTj = + 12°CCOPdTj = + 12°CCOPdPoh-KWPohPoh-	x Yeso Noo Yesx Noo Averageo Colderx Low (35°C)x Low (35°C)EN14825YesSymbolValueYes13WWSeasonal space heating energy efficiencyPdh-Pdh-Cdh-Pdh-Pdh-Pdh3.2Pdh9.6Pdh13.2Pdh-Pdh13.2Pdh3.2Pdh13.2Pdh-Pdh13.2Pdh-Pdh13.2Porr-Pcych-PCych-PCYC-POFF0.025POFF0.025PCK0.000PCK0.000NuPCK0.000NuPCK0.000NuPatel air flow rate, outdoors-Por PCK0.000PortPatel air flow rate, outdoors <tr< td=""></tr<>

Contact details

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