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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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Model(s)	**PROCIDA AWM T12**		
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°C)	o Low (35°C)	
Applied Standards	EN14825		

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**10**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	8.4	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 2°C	Pdh	6.0	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 7°C	Pdh	7.3	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 12°C	Pdh	9.5	kW
Degradation co-efficient	Cdh	0.98	-
Tj = bivalent temperature	Pdh	8.4	kW
Tj = operation limit temperature	Pdh	10.1	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**127**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2.01	-
Tj = + 2°C	COPd	3.12	-
Tj = + 7°C	COPd	4.25	-
Tj = + 12°C	COPd	6.49	-
Tj = bivalent temperature	COPd	2.01	-
Tj = operation limit temperature	COPd	1.78	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.000	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	6048	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWM T12**		
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°C)	o Low (35°C)	
Applied Standards	EN14825		

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	6.0	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 2°C	Pdh	6.0	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 7°C	Pdh	7.4	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 12°C	Pdh	9.7	kW
Degradation co-efficient	Cdh	0.99	-
Tj = bivalent temperature	Pdh	6.7	kW
Tj = operation limit temperature	Pdh	8.1	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	6.7	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**102**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2.09	-
Tj = + 2°C	COPd	2.98	-
Tj = + 7°C	COPd	4.66	-
Tj = + 12°C	COPd	6.92	-
Tj = bivalent temperature	COPd	1.91	-
Tj = operation limit temperature	COPd	1.50	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	1.91	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.000	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	7725	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWM T12**		
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°C)	o Low (35°C)	
Applied Standards	EN14825		

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	-	kW
Degradation co-efficient	Cdh	-	-
Tj = + 2°C	Pdh	7.8	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 7°C	Pdh	6.5	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 12°C	Pdh	9.5	kW
Degradation co-efficient	Cdh	0.98	-
Tj = bivalent temperature	Pdh	7.8	kW
Tj = operation limit temperature	Pdh	7.8	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**149**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	-	-
Tj = + 2°C	COPd	2.26	-
Tj = + 7°C	COPd	2.96	-
Tj = + 12°C	COPd	5.49	-
Tj = bivalent temperature	COPd	2.26	-
Tj = operation limit temperature	COPd	2.26	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.000	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	2727	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWM T12**		
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°C)	x Low (35°C)	
Applied Standards	EN14825		

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 Tj			
Tj = - 7°C	Pdh	9.4	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 2°C	Pdh	5.8	kW
Degradation co-efficient	Cdh	0.98	-
Tj = + 7°C	Pdh	7.7	kW
Degradation co-efficient	Cdh	0.98	-
Tj = + 12°C	Pdh	9.6	kW
Degradation co-efficient	Cdh	0.97	-
Tj = bivalent temperature	Pdh	9.4	kW
Tj = operation limit temperature	Pdh	10.8	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	-7	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**177**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	3.07	-
Tj = + 2°C	COPd	4.25	-
Tj = + 7°C	COPd	5.82	-
Tj = + 12°C	COPd	8.21	-
Tj = bivalent temperature	COPd	3.07	-
Tj = operation limit temperature	COPd	2.43	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.010	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	4893	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWM T12**		
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°C)	x Low (35°C)	
Applied Standards	EN14825		

Item	**Symbol**	**Value**	**Unit**
Rated heat output	**Prated**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	6.6	kW
Degradation co-efficient	Cdh	0.98	-
Tj = + 2°C	Pdh	5.2	kW
Degradation co-efficient	Cdh	0.98	-
Tj = + 7°C	Pdh	7.8	kW
Degradation co-efficient	Cdh	0.97	-
Tj = + 12°C	Pdh	9.8	kW
Degradation co-efficient	Cdh	0.97	-
Tj = bivalent temperature	Pdh	6.5	kW
Tj = operation limit temperature	Pdh	9.2	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	6.5	kW
Bivalent temperature	Tbiv	-15	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**141**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	3.02	-
Tj = + 2°C	COPd	4.12	-
Tj = + 7°C	COPd	5.94	-
Tj = + 12°C	COPd	8.26	-
Tj = bivalent temperature	COPd	2.21	-
Tj = operation limit temperature	COPd	2.01	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.21	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.000	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	5477	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWM T12**			
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°C)		x Low (35°C)	
Applied Standards	EN14825			

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 Tj			
Tj = - 7°C	Pdh	-	kW
Degradation co-efficient	Cdh	-	-
Tj = + 2°C	Pdh	11.0	kW
Degradation co-efficient	Cdh	0.99	-
Tj = + 7°C	Pdh	8.4	kW
Degradation co-efficient	Cdh	0.98	-
Tj = + 12°C	Pdh	9.6	kW
Degradation co-efficient	Cdh	0.97	-
Tj = bivalent temperature	Pdh	11.0	kW
Tj = operation limit temperature	Pdh	11.0	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	-	kW
Bivalent temperature	Tbiv	2	°C
Cycling interval capacity for heating	Pcych	-	kW

Item	**Symbol**	**Value**	**Unit**
Seasonal space heating energy efficiency	**ηs**	**229**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	-	-
Tj = + 2°C	COPd	3.24	-
Tj = + 7°C	COPd	5.10	-
Tj = + 12°C	COPd	7.39	-
Tj = bivalent temperature	COPd	3.24	-
Tj = operation limit temperature	COPd	3.24	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	-25	°C
Cycling interval efficiency	COPcyc	-	-
Heating water operating limit temperature	WTOL	60	°C

Power consumption in modes other than active mode			
Off mode	POFF	0.018	kW
Thermostat-off mode	PTO	0.018	kW
Standby mode	PSB	0.018	kW
Crankcase heater mode	PCK	0.000	kW

Supplementary heater			
Rated heat output	Psup	-	kW
Type of energy input	-		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	2527	kWh

Rated air flow rate, outdoors	-	4500	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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