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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 X12**		
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	6.8	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**	**126**	%
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	3.06	-
Tj = + 7°C	COPd	4.25	-
Tj = + 12°C	COPd	6.50	-
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.025	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	6119	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 X12**		
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	8.0	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**	**103**	%
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	2.99	-
Tj = + 7°C	COPd	4.66	-
Tj = + 12°C	COPd	6.96	-
Tj = bivalent temperature	COPd	1.91	-
Tj = operation limit temperature	COPd	1.51	-
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.020	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	7691	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 X12**			
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**	**150**	%
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	2.27	-
Tj = + 7°C	COPd	2.97	-
Tj = + 12°C	COPd	5.52	-
Tj = bivalent temperature	COPd	2.27	-
Tj = operation limit temperature	COPd	2.27	-
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.020	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	2723	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 X12**		
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	4.24	-
Tj = + 7°C	COPd	5.82	-
Tj = + 12°C	COPd	8.21	-
Tj = bivalent temperature	COPd	3.07	-
Tj = operation limit temperature	COPd	2.42	-
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.020	kW
Crankcase heater mode	PCK	0.010	kW

Supplementary heater			
Rated heat output	Psup	0,1	kW
Type of energy input	Electric		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	-/69	dB
Annual energy consumption	QHE	4902	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 X12**		
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	3.03	-
Tj = + 2°C	COPd	4.15	-
Tj = + 7°C	COPd	5.93	-
Tj = + 12°C	COPd	8.26	-
Tj = bivalent temperature	COPd	2.22	-
Tj = operation limit temperature	COPd	2.01	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	2.22	-
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.020	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	5444	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 X12**		
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**	**227**	%
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	0.025	kW
Thermostat-off mode	PTO	0.025	kW
Standby mode	PSB	0.020	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	2555	kWh

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

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