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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 AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**		
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	x Yes	o 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**	**8**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	6,9	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 2°C	Pdh	4,2	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	4,3	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	4,9	kW
Degradation co-efficient	Cdh	1,0	-
Tj = bivalent temperature	Pdh	6,9	kW
Tj = operation limit temperature	Pdh	6,8	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**	**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	2,12	-
Tj = + 2°C	COPd	3,09	-
Tj = + 7°C	COPd	4,34	-
Tj = + 12°C	COPd	5,91	-
Tj = bivalent temperature	COPd	2,12	-
Tj = operation limit temperature	COPd	1,75	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	– 10	°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	0,025	kW

Supplementary heater			
Rated heat output	Psup	1,2	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	5091	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**			
Water-to-water heat pump	x Yes	o No		
Brine-to-water heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Equipped with a supplementary heater	x Yes	o 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	5,3	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 2°C	Pdh	3,1	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	4,2	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	4,8	kW
Degradation co-efficient	Cdh	1,0	-
Tj = bivalent temperature	Pdh	6,7	kW
Tj = operation limit temperature	Pdh	3,3	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**	**110**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2,42	-
Tj = + 2°C	COPd	3,23	-
Tj = + 7°C	COPd	4,78	-
Tj = + 12°C	COPd	5,91	-
Tj = bivalent temperature	COPd	1,83	-
Tj = operation limit temperature	COPd	1,22	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	1,83	-
Operation limit temperature	TOL	– 22	°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	0,025	kW

Supplementary heater			
Rated heat output	Psup	4,7	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	6985	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**			
Water-to-water heat pump	x Yes	o No		
Brine-to-water heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Equipped with a supplementary heater	x Yes	o 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**	**9**	**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	9,0	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	5,9	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	5,2	kW
Degradation co-efficient	Cdh	1,0	-
Tj = bivalent temperature	Pdh	9,0	kW
Tj = operation limit temperature	Pdh	9,0	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**	**161**	%
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	2,48	-
Tj = + 7°C	COPd	3,56	-
Tj = + 12°C	COPd	5,30	-
Tj = bivalent temperature	COPd	2,48	-
Tj = operation limit temperature	COPd	2,48	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	2	°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	0,025	kW

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

Other items

Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	2927	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**		
Water-to-water heat pump	x Yes	o No	
Brine-to-water heat pump	o Yes	x No	
Low-temperature heat pump	o Yes	x No	
Low-temperature heat pump	o Yes	x No	
Equipped with a supplementary heater	x Yes	o 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**	**9**	**kW**
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	Pdh	7,7	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 2°C	Pdh	4,8	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	3,1	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	3,7	kW
Degradation co-efficient	Cdh	0,9	-
Tj = bivalent temperature	Pdh	7,7	kW
Tj = operation limit temperature	Pdh	7,1	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**	**181**	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7°C	COPd	2,87	-
Tj = + 2°C	COPd	4,34	-
Tj = + 7°C	COPd	6,58	-
Tj = + 12°C	COPd	8,37	-
Tj = bivalent temperature	COPd	2,87	-
Tj = operation limit temperature	COPd	2,59	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	– 10	°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	0,025	kW

Supplementary heater			
Rated heat output	Psup	1,9	kW
Type of energy input	Electrical		

Other items			
Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	4038	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**			
Water-to-water heat pump	x Yes	o No		
Brine-to-water heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Equipped with a supplementary heater	x Yes	o 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	5,2	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 2°C	Pdh	3,2	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	4,3	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	4,9	kW
Degradation co-efficient	Cdh	1,0	-
Tj = bivalent temperature	Pdh	6,4	kW
Tj = operation limit temperature	Pdh	5,6	kW
Tj = – 15 °C (if TOL < – 20 °C)	Pdh	6,4	kW
Bivalent temperature	Tbiv	– 15	°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	3,25	-
Tj = + 2°C	COPd	4,31	-
Tj = + 7°C	COPd	6,11	-
Tj = + 12°C	COPd	7,30	-
Tj = bivalent temperature	COPd	2,69	-
Tj = operation limit temperature	COPd	1,67	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	2,69	-
Operation limit temperature	TOL	– 22	°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	0,025	kW

Supplementary heater			
Rated heat output	Psup	2,5	kW
Type of energy input	Electrical		

Other items

Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	5201	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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Model(s)	**PROCIDA AWS X10 (PROCIDA AWS 10 (O) + PROCIDA IWU 10)**			
Water-to-water heat pump	x Yes	o No		
Brine-to-water heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Low-temperature heat pump	o Yes	x No		
Equipped with a supplementary heater	x Yes	o 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**	**9**	**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	8,8	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 7°C	Pdh	5,8	kW
Degradation co-efficient	Cdh	1,0	-
Tj = + 12°C	Pdh	5,1	kW
Degradation co-efficient	Cdh	1,0	-
Tj = bivalent temperature	Pdh	8,8	kW
Tj = operation limit temperature	Pdh	8,8	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**	**217**	%
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	3,15	-
Tj = + 7°C	COPd	4,86	-
Tj = + 12°C	COPd	7,18	-
Tj = bivalent temperature	COPd	3,15	-
Tj = operation limit temperature	COPd	3,15	-
Tj = – 15 °C (if TOL < – 20 °C)	COPd	-	-
Operation limit temperature	TOL	2	°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	0,025	kW

Supplementary heater			
Rated heat output	Psup	0,2	kW
Type of energy input	Electrical		

Other items

Capacity control	variable		
Sound power level, indoors/ outdoors	LWA	42/68	dB
Annual energy consumption	QHE	2183	kWh

Rated air flow rate, outdoors	-	3300	m3/h
Rated brine or water flow rate, outdoor heat exchanger	-	-	m3/h

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