Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): HPX30A							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Medium-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	30	kW	Seasonal space heating energy efficiency	ηs	127	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	26.71	kW	Tj = – 7 ℃	COPd	1.91	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	15.24	kW	Tj = 2 ℃	COPd	3.13	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 7 ℃	Pdh	9.64	kW	Tj = 7 ℃	COPd	4.58	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12℃	Pdh	7.09	kW	Tj = 12℃	COPd	5.80	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	26.71	kW	Tj = bivalent temperature	COPd	1.91	–
Tj = operation limit temperature	Pdh	24.81	kW	Tj = operation limit temperature	COPd	1.62	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	5.19	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	19093	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Winterwarm Heating Solutions bv.				Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): HPX30A							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Medium-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	29	kW	Seasonal space heating energy efficiency	ηs	105	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	18.25	kW	Tj = – 7 ℃	COPd	2.17	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 ℃	Pdh	10.52	kW	Tj = 2 ℃	COPd	3.21	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 7 ℃	Pdh	6.85	kW	Tj = 7 ℃	COPd	4.27	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12℃	Pdh	7.13	kW	Tj = 12℃	COPd	5.59	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	23.78	kW	Tj = bivalent temperature	COPd	1.69	–
Tj = operation limit temperature	Pdh	19.47	kW	Tj = operation limit temperature	COPd	1.27	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	23.78	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	1.69	–
Bivalent temperature	Tbiv	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	9.53	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	26609	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Winterwarm Heating Solutions bv.				Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements
(heat pump space heaters and heat pump combination heaters)

Model(s): HPX30A

Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Medium-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	30	kW	Seasonal space heating energy efficiency	ηs	166	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	NA	kW	Tj = – 7 ℃	COPd	NA	–
Degradation co-efficient (**)	Cdh	NA	–				
Tj = 2 ℃	Pdh	29.84	kW	Tj = 2 ℃	COPd	1.98	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	17.95	kW	Tj = 7 ℃	COPd	3.70	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 12℃	Pdh	8.77	kW	Tj = 12℃	COPd	5.38	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	29.84	kW	Tj = bivalent temperature	COPd	1.98	–
Tj = operation limit temperature	Pdh	29.84	kW	Tj = operation limit temperature	COPd	1.98	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	2	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0.16	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	9416	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Winterwarm Heating Solutions bv.				Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk			

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements
(heat pump space heaters and heat pump combination heaters)

Model(s): HPX30A

Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Low-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	30	kW	Seasonal space heating energy efficiency	ηs	183	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	26.79	kW	Tj = – 7 ℃	COPd	2.75	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 2 ℃	Pdh	15.89	kW	Tj = 2 ℃	COPd	4.55	–
Degradation co-efficient (**)	Cdh	0.99	–				
Tj = 7 ℃	Pdh	9.70	kW	Tj = 7 ℃	COPd	6.09	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12℃	Pdh	8.25	kW	Tj = 12℃	COPd	8.67	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	26.79	kW	Tj = bivalent temperature	COPd	2.75	–
Tj = operation limit temperature	Pdh	27.86	kW	Tj = operation limit temperature	COPd	2.50	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	-7	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-10	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	2.14	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	13404	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ

Contact details: Winterwarm Heating Solutions bv.	Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements
(heat pump space heaters and heat pump combination heaters)

Model(s): HPX30A

Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Low-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	29	kW	Seasonal space heating energy efficiency	ηs	136	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	17.11	kW	Tj = – 7 ℃	COPd	2.75	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 ℃	Pdh	11.31	kW	Tj = 2 ℃	COPd	4.13	–
Degradation co-efficient (**)	Cdh	0.94	–				
Tj = 7 ℃	Pdh	7.02	kW	Tj = 7 ℃	COPd	5.93	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12℃	Pdh	7.03	kW	Tj = 12℃	COPd	7.74	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	23.68	kW	Tj = bivalent temperature	COPd	2.31	–
Tj = operation limit temperature	Pdh	19.57	kW	Tj = operation limit temperature	COPd	1.77	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	23.68	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	2.31	–
Bivalent temperature	Tbiv	-15	℃	For air-to-water heat pumps: Operation limit temperature	TOL	-22	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	9.43	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	20468	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ

Contact details: Winterwarm Heating Solutions bv.	Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): HPX30A							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	N		
Brine-to-water heat pump	N			Heat pump combination heater	N		
Parameters declared for	Low-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	31	kW	Seasonal space heating energy efficiency	ηs	251	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = – 7 ℃	Pdh	NA	kW	Tj = – 7 ℃	COPd	NA	–
Degradation co-efficient (**)	Cdh	NA	–				
Tj = 2 ℃	Pdh	31.52	kW	Tj = 2 ℃	COPd	2.82	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 7 ℃	Pdh	18.36	kW	Tj = 7 ℃	COPd	5.25	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 12℃	Pdh	8.25	kW	Tj = 12℃	COPd	8.67	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = bivalent temperature	Pdh	31.52	kW	Tj = bivalent temperature	COPd	2.82	–
Tj = operation limit temperature	Pdh	31.52	kW	Tj = operation limit temperature	COPd	2.82	–
For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	Pdh	NA	kW	For air-to-water heat pumps: Tj = – 15℃ (if TOL < – 20℃)	COPd	NA	–
Bivalent temperature	Tbiv	2	℃	For air-to-water heat pumps: Operation limit temperature	TOL	2	℃
Cycling interval capacity for heating	Pcych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	℃
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P_{OFF}	0.025	kW	Rated heat output (*)	Psup	0	kW
Thermostat-off mode	P_{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P_{SB}	0.025	kW				
Crankcase heater mode	P_{CK}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	13470	m 3 /h
Sound power level, outdoors	L_{WA}	65	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m 3 /h
Annual energy consumption	Q_{HE}	6631	kWh				
For heat pump combination heater:							
Declared load profile	NA			Water heating energy efficiency	ηwh	NA	%
Daily electricity consumption	Qelec	NA	kWh	Daily fuel consumption	Qfuel	NA	kWh
Annual electricity consumption	AEC	NA	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: Winterwarm Heating Solutions bv.				Name of the supplier: Olden Goorweg 1, 7108 AE, Winterswijk			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							


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