

Model	SWP 850H
Air-to-water heat pump: (yes/no)	no
Brine-to-water heat pump: (yes/no)	yes
Water-to-water heat pump: (yes/no)	no
Low-temperature heat pump: (yes/no)	no
Equipped with supplementary heater: (yes/no)	no
combination heater with: (yes/no)	no
application: (low/medium)	medium
climate: (colder/average/warmer)	average

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	86	kW	Seasonal space heating energy efficiency	η_S	114,0	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	86,1	kW	Tj = -7°C	COPd	3,01	-
Tj = +2°C	Pdh	86,9	kW	Tj = +2°C	COPd	3,42	-
Tj = +7°C	Pdh	87,3	kW	Tj = +7°C	COPd	3,73	-
Tj = +12°C	Pdh	87,8	kW	Tj = +12°C	COPd	4,10	-
Tj = bivalent temperature	Pdh	85,9	kW	Tj = bivalent temperature	COPd	2,91	-
Tj = operation limit temperature	Pdh	85,9	kW	Tj = operation limit temperature	COPd	2,91	-
For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C)	Pdh	85,9	kW	For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C)	COPd	2,91	-
Bivalent temperature	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc		kW	Cycling interval efficiency	COPcyc		-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,010	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	PTO	0,010	kW	Type of energy input	electrical		
Standby mode	PSB	0,010	kW				
Crankcase heater mode	PCK	0	kW				
Capacity control	fixed						
sound power level, indoors/outdoors	LWA	79/-	dB	For air-to-water heat pumps: Rated air flow rate, outdoors	-		m³/h
Emissions of nitrogen oxides	NOX	0	mg/kWh	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	14800	m³/h
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	0	kWh
Contact details	ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany						
(*) 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.							

Model	SWP 850H
Air-to-water heat pump: (yes/no)	no
Brine-to-water heat pump: (yes/no)	yes
Water-to-water heat pump: (yes/no)	no
Low-temperature heat pump: (yes/no)	no
Equipped with supplementary heater: (yes/no)	no
combination heater with: (yes/no)	no
application: (low/medium)	low
climate: (colder/average/warmer)	average

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output	Prated	88	kW	Seasonal space heating energy efficiency	η_S	154,0	%
Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj				Declared coefficient of performance for part load at indoor temperature 20°C and outdoor temperature Tj			
Tj = -7°C	Pdh	88,0	kW	Tj = -7°C	COPd	4,32	-
Tj = +2°C	Pdh	88,3	kW	Tj = +2°C	COPd	4,56	-
Tj = +7°C	Pdh	88,5	kW	Tj = +7°C	COPd	4,79	-
Tj = +12°C	Pdh	88,7	kW	Tj = +12°C	COPd	5,05	-
Tj = bivalent temperature	Pdh	88,0	kW	Tj = bivalent temperature	COPd	4,28	-
Tj = operation limit temperature	Pdh	88,0	kW	Tj = operation limit temperature	COPd	4,28	-
For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C)	Pdh	88,0	kW	For air-to-water heat pumps: Tj = +15°C (if TOL < -20°C)	COPd	4,28	-
	Tbiv	-10	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcych		kW	Cycling interval efficiency	COPcyc		-
Degradation co-efficient (**)	Cdh	1,0	-	Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	POFF	0,010	kW	Rated heat output	Psup	0,0	kW
Thermostat-off mode	PTO	0,010	kW	Type of energy input	electrical		
Standby mode	PSB	0,010	kW				
Crankcase heater mode	PCK	0	kW				
Other items				For air-to-water heat pumps: Rated air flow rate, outdoors			
Capacity control	fixed						m³/h
sound power level, indoors/outdoors	LWA	79/-	dB	For water-/brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger		14800	m³/h
Emissions of nitrogen oxides	NOX	0	mg/kWh				
For heat pump combination heater:				Water heating energy efficiency			
Declared load profile	-				η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	0	kWh
Contact details	ait deutschland GmbH Industriestr. 3 95359 Kasendorf Germany						
(*) 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.							