## AIR 9

Model	AIR 9
Air-to-water heat pump	Yes
Water-to-water heat pump	No
Brine-to-water heat pump	No
Low-temperature heat pump	Yes
Equipped with a supplementary heater	Yes
Heat pump combination heater	No
Temperature control:	
Model	CTS602
Class	2
Contribution to seasonal space heating energy efficiency	2%



Item	Symbol	Value	Unit
Rated heat output	Prated	5,21	kW

Declared capacity for heating for part load at indoor temperature 20  $^{\circ}\mathrm{C}$  and outdoor temperature of  $\mathrm{T_{j}}$ 

T <sub>j</sub> = -7 °C	Pdh	4,79	kW
T <sub>j</sub> = +2 °C	Pdh	2,88	kW
T <sub>j</sub> = +7 °C	Pdh	1,90	kW
T <sub>j</sub> = +12 °C	Pdh	2,12	kW
T <sub>j</sub> = bivalent temperature	Pdh	5,21	kW
T <sub>j</sub> = operation limit temperature	Pdh	0	kW
For air-water-heating pumps Tj = -15 °C (if TOL < -20 °C)	Pdh		kW
Bivalent temperature	T <sub>biv</sub>	-10	°C
Cyclling interval capacity for heating	Pcych		kW
Degradation co-efficient	Cdh	0,94- 0,99	
Power consumption in modes other than active mode			
Off mode	P <sub>OFF</sub>	0,01	kW
Thermostat off-mode	Ρτο	0,005	kW
Standby mode	P <sub>SB</sub>	0,01	kW
Crankcase heater mode	Р <sub>ск</sub>	0	kW
Other items			
Capacity control:	Variable compressor Variable indoor water flow		

	Variable indoor temperature adjustment		
Sound power level, outdoors	L <sub>WA</sub>	46	dB
Emissions of nitrogen oxides	$Q_{\rm HE}$	1464	kWh

Seasonal space heating $$\rm O_s$$ energy efficiency	206	%
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Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature  $T_{\rm j}$ 

Item

T <sub>j</sub> = -7 °C	COPd	3,20	
T <sub>j</sub> = +2 °C	COPd	4,95	
T <sub>j</sub> = +7 °C	COPd	6,53	
T <sub>j</sub> = +12 °C	COPd	9,69	
T <sub>j</sub> = bivalent temperature	COPd	2,83	
T <sub>j</sub> = operation limit temperature	COPd	0	
For air-to-water heat pumps: Tj = -15 °C (if TOL < -20 °C)	COPd		
For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval efficiency	COPcyc		
Heating water operating limit temperature	WTOL	45	°C
Supplementary heater			
Rated heat output	Psup	6	kW
Type of energy input	Electrical		
For air-to-water heat pumps: Rated air flow rate, outdoors		3000	m³/h
For water-/ brine-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger			m³/h

