

Model(s): RHBH08CB9W / RRLQ006CAV3

Boiler:

Air-to-water heat pump Yes

Water-to-water heat pump: No

Brine-to-water heat pump: No

Low-temperature heat pump: No

Supplementary heater Yes

Heat pump combination heater: No

Parameters shall be declared for medium-temperature application, except for low-temperature heat pumps. For low-temperature heat pumps, parameters shall be declared for low-temperature application.

Parameters shall be declared for average, colder and warmer climate conditions.

Item	Symbol	Value	Unit
Rated heat output (3)	<i>Prated</i>	5.30	kW
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7$ °C	<i>Pdh</i>	4.56	kW
$T_j = +2$ °C	<i>Pdh</i>	3.43	kW
$T_j = +7$ °C	<i>Pdh</i>	3.51	kW
$T_j = +12$ °C	<i>Pdh</i>	3.28	kW
$T_j =$ bivalent temperature	<i>Pdh</i>	4.90	kW
$T_j =$ operation limit temperature	<i>Pdh</i>	3.10	kW
For air-to-air heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)	<i>Pdh</i>		kW
Bivalent temperature	$T_{biv}$	-8.00	°C
Cycling interval capacity for heating	<i>Pcyc</i>		kW
Degradation co-efficient (4)	<i>Cdh</i>	1.00	—
Power consumption in modes other than active mode			
Off mode	$P_{OFF}$	0.0080	kW
Thermostat-off mode	$P_{TO}$	0.0070	kW
Standby mode	$P_{SB}$	0.0080	kW
Crankcase heater mode	$P_{CK}$	0.00	kW
Other items			
Capacity Control	fixed/variable		
Sound power level, indoors/outdoors	$L_{WA}$	62.0 / 40.0	dB
Annual energy consumption	$Q_{HE}$	3,370	kWh or GJ

For heat pump combination heater:

Declared load profile	Symbol	Value	Unit
Daily electricity consumption	$Q_{elec}$		kWh
Annual electricity consumption	<i>AEC</i>		kWh

Item	Symbol	Value	Unit
Seasonal space heating energy efficiency	$\eta_s$	126	%
Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature $T_j$			
$T_j = -7$ °C	<i>COPd or PERd</i>	2.02 / 80.8	– or %
$T_j = +2$ °C	<i>COPd or PERd</i>	3.17 / 127	– or %
$T_j = +7$ °C	<i>COPd or PERd</i>	4.20 / 168	– or %
$T_j = +12$ °C	<i>COPd or PERd</i>	5.82 / 233	– or %
$T_j =$ bivalent temperature	<i>COPd or PERd</i>	1.87 / 74.8	– or %
$T_j =$ operation limit temperature	<i>COPd or PERd</i>	1.74 / 69.6	– or %
For air-to-water heat pumps: $T_j = -15$ °C (if $TOL < -20$ °C)	<i>COPd or PERd</i>		– or %
For air-to-water heat pumps: Operation limit temperature	<i>TOL</i>	-10.0	°C
Cycling interval efficiency	<i>COPcyc or PERcyc</i>		– or %
Heating water operating limit temperature	<i>WTOL</i>	55.0	°C
Supplementary heater			
Rated heat output (4)	$P_{sup}$	9.00	kW
Type of energy input	Electrical		
Inverter			
For air-to-water heat pumps: Rated air flow rate, outdoors	—	2,820	m <sup>3</sup> /h
For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	—	0.00	m <sup>3</sup> /h

Water heating energy efficiency	Symbol	Value	Unit
Daily fuel consumption	$Q_{fuel}$		kWh
Annual fuel consumption	<i>AFC</i>		GJ

(3) For heat pump space heaters and heat pump combination heaters, the rated heat output  $P_{rated}$  is equal to the design load for heating  $P_{designh}$ , and the rated heat output of a supplementary heater  $P_{sup}$  is equal to the supplementary capacity for heating  $sup(T_j)$ .

(4) If  $C_{dh}$  is not determined by measurement then the default degradation coefficient is  $C_{dh} = 0,9$ .