

## Heat pump space heater

		Outdoor	RRLQ016CAW1
		Indoor	RHBH16CB9W
Space heating	Energy efficiency class 55°C (High temp. app.)	-	A+
	Energy efficiency class 35°C (Low temp. app.)	-	A+
<b>Average climate (Design temperature = -10°C)</b>			
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -10°C	[kW]	13.9
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	119
	Annual energy consumption	[kWh]	8,970
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -10°C	[kW]	16.0
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	149
	Annual energy consumption	[kWh]	8,270
<b>off peak operation function integrated in Heat pump</b>		Y/N	
<b>Colder climate (Design temperature = -22°C)</b>			
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -22°C	[kW]	9.12
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	98.3
	Annual energy consumption	[kWh]	8,580
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -22°C	[kW]	13.3
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	137
	Annual energy consumption	[kWh]	9,050
<b>Warmer climate (Design temperature = 2°C)</b>			
Space heating 55°C	$P_{rated}$ (declared heating capacity) @ -2°C	[kW]	10.3
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	136
	Annual energy consumption	[kWh]	3,420
Space heating 35°C	$P_{rated}$ (declared heating capacity) @ -2°C	[kW]	11.4
	Seasonal space heating efficiency ( $\eta_S$ )	[%]	199
	Annual energy consumption	[kWh]	2,480
<b>Indoor unit sound power (*)</b>		[dB(A)]	44.0
<b>Outdoor unit sound power (*)</b>		[dB(A)]	66.0
<b>Ecodesign technical data</b>			
Product description	Air-to-water heat pump	Y/N	Yes
	Water-to-water heat pump	Y/N	No
	Brine-to-water heat pump	Y/N	No
	Low-temperature heat pump	Y/N	No
	Equipped with a supplementary heater	Y/N	Yes
	Heat pump combination heater	Y/N	No
Air to water unit	Rated airflow (outdoor)	[m <sup>3</sup> /h]	5,400
Brine/water to water unit	Rated water/brine flow (outdoor H/E)	[m <sup>3</sup> /h]	
Other	Capacity control	-	
	$P_{off}$ (Power consumption Off mode)	[kW]	
	$P_{to}$ (Power consumption Thermostat off mode)	[kW]	
	$P_{sb}$ (Power consumption Standby mode)	[kW]	
	$P_{CK}$ (Power crankcase heater model)	[kW]	
	$Q_{elec}$ (Daily electricity consumption)	[kWh]	
	$Q_{fuel}$ (Daily fuel consumption)	[kWh]	
<b>Part load conditions space heating average climate</b>			
(A) condition (-7°C)	$P_{dh}$ (declared heating capacity)	[kW]	12.2
	$COP_d$ (declared COP)	-	1.78
	$C_{dh}$ (degradation coefficient)	-	1.00
(B) condition (2°C)	$P_{dh}$ (declared heating capacity)	[kW]	7.61
	$COP_d$ (declared COP)	-	3.12
	$C_{dh}$ (degradation coefficient)	-	1.00
(C) condition (7°C)	$P_{dh}$ (declared heating capacity)	[kW]	4.83
	$COP_d$ (declared COP)	-	4.40
	$C_{dh}$ (degradation coefficient)	-	1.00
(D) (D) condition (12°C)	$P_{dh}$ (declared heating capacity)	[kW]	5.38
	$COP_d$ (declared COP)	-	6.36
	$C_{dh}$ (degradation coefficient)	-	0.930
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.0
	$P_{dh}$ (declared heating capacity)	[kW]	13.3

	<b>COP<sub>d</sub> (declared COP)</b>	-	1.71
	<b>WTOL (Heating water Operation Limit)</b>	[°C]	55.0
<b>(F) Tivalent temperature</b>	<b>T<sub>blv</sub></b>	[°C]	-7.00
	<b>P<sub>dh</sub> (declared heating capacity)</b>	[kW]	12.2
	<b>COP<sub>d</sub> (declared COP)</b>	-	1.78
	<b>Capacity of the back-up heater integrated in the unit</b>	<b>P<sub>sup</sub> back-up heater (@T<sub>designh</sub>: -10°C)</b>	[kW]
<b>Supplementary capacity at P<sub>design</sub></b>	<b>P<sub>sup</sub> (@T<sub>designh</sub>: -10°C)</b>	[kW]	0.580

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.  
Energy labels and product fiches for additional combinations, packages and other products can be found on "[www.rotex-heating.com](http://www.rotex-heating.com)".  
(\*) Sound power level in heating mode, measured according to the EN15036 for combustion boilers and EN 12102 for heat pumps under conditions of the EN ISO 3746, accuracy class 3  
This data is for comparison of Energy efficiencies according to Regulation (EU) 2017/1369, for correct selection of products for your application, contact your dealer.  
Depending on your application and the product selected an additional supplementary heater may have to be installed.