

# Product fiche

HEAT PUMP SPACE HEATER		Outdoor	AQS160X1o
		Indoor	AQS160X13i
Indoor unit sound power (*)		[dB(A)]	43.0
Outdoor unit sound power (*)	Average climate low temperature application	[dB(A)]	68.0
	Average climate medium temperature application	[dB(A)]	68.0
Capacity of the backup heater integrated in the unit	P <sub>sup</sub> back-up heater (optional)	[kW]	0/3/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++
<b>Average climate (Design temperature = -10°C)</b>			
Space heating 35°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	[kW]	15.2
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	181.7
	Annual energy consumption	[kWh]	6,804
Space heating 55°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	[kW]	13.0
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	133.3
	Annual energy consumption	[kWh]	7,895
<b>Part load conditions space heating average climate low temperature application</b>			
(A) condition (-7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	13.45
	COP <sub>d</sub> (declared COP)	-	2.72
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	8.56
	COP <sub>d</sub> (declared COP)	-	4.41
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	5.70
	COP <sub>d</sub> (declared COP)	-	6.56
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	3.78
	COP <sub>d</sub> (declared COP)	-	8.51
	C <sub>dh</sub> (degradation coefficient)	-	0.90
(E) TOL (temperature operating limit)	TOL (temperature operating limit)	[°C]	-10.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	12.52
	COP <sub>d</sub> (declared COP)	-	2.48
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tivalent temperature	T <sub>blv</sub>	[°C]	-7.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	13.45
	COP <sub>d</sub> (declared COP)	-	2.72
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	[kW]	2.68
<b>Part load conditions space heating average climate medium temperature application</b>			
(A) condition (-7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	11.52
	COP <sub>d</sub> (declared COP)	-	1.99
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	7.18
	COP <sub>d</sub> (declared COP)	-	3.34
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	4.67
	COP <sub>d</sub> (declared COP)	-	4.61
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	3.32
	COP <sub>d</sub> (declared COP)	-	6.07
	C <sub>dh</sub> (degradation coefficient)	-	0.90
(E) TOL (temperature operating limit)	TOL (temperature operating limit)	[°C]	-10.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	10.33
	COP <sub>d</sub> (declared COP)	-	1.80
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tivalent temperature	T <sub>blv</sub>	[°C]	-7.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	11.52
	COP <sub>d</sub> (declared COP)	-	1.99
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	[kW]	2.67