

# Product fiche

HEAT PUMP SPACE HEATER		Outdoor	AQS80X1o
		Indoor	AQS100X13i
Indoor unit sound power (*)		[dB(A)]	42.0
Outdoor unit sound power (*)	Average climate low temperature application	[dB(A)]	59.0
	Average climate medium temperature application	[dB(A)]	59.0
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]	8.1
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	205.6
	Annual energy consumption	[kWh]	3,218
Space heating 55°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	[kW]	6.6
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	131.6
	Annual energy consumption	[kWh]	4,054
<b>Part load conditions space heating average climate low temperature application</b>			
(A) condition (-7°C)	P <sub>th</sub> (declared heating capacity)	[kW]	7.18
	COP <sub>d</sub> (declared COP)	-	3.35
	C <sub>th</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>th</sub> (declared heating capacity)	[kW]	4.65
	COP <sub>d</sub> (declared COP)	-	5.09
	C <sub>th</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>th</sub> (declared heating capacity)	[kW]	2.90
	COP <sub>d</sub> (declared COP)	-	6.82
	C <sub>th</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>th</sub> (declared heating capacity)	[kW]	1.63
	COP <sub>d</sub> (declared COP)	-	8.35
	C <sub>th</sub> (degradation coefficient)	-	0.90
(E) TOL (temperature operating limit)	TOL (temperature operating limit)	[°C]	-10.00
	P <sub>th</sub> (declared heating capacity)	[kW]	6.44
	COP <sub>d</sub> (declared COP)	-	3.04
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tivalent temperature	T <sub>blv</sub>	[°C]	-7.00
	P <sub>th</sub> (declared heating capacity)	[kW]	7.18
	COP <sub>d</sub> (declared COP)	-	3.35
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	[kW]	1.68
<b>Part load conditions space heating average climate medium temperature application</b>			
(A) condition (-7°C)	P <sub>th</sub> (declared heating capacity)	[kW]	5.84
	COP <sub>d</sub> (declared COP)	-	2.16
	C <sub>th</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>th</sub> (declared heating capacity)	[kW]	3.76
	COP <sub>d</sub> (declared COP)	-	3.30
	C <sub>th</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>th</sub> (declared heating capacity)	[kW]	2.43
	COP <sub>d</sub> (declared COP)	-	4.34
	C <sub>th</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>th</sub> (declared heating capacity)	[kW]	1.39
	COP <sub>d</sub> (declared COP)	-	5.33
	C <sub>th</sub> (degradation coefficient)	-	0.90
(E) TOL (temperature operating limit)	TOL (temperature operating limit)	[°C]	-10.00
	P <sub>th</sub> (declared heating capacity)	[kW]	4.91
	COP <sub>d</sub> (declared COP)	-	1.84
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tivalent temperature	T <sub>blv</sub>	[°C]	-7.00
	P <sub>th</sub> (declared heating capacity)	[kW]	5.84
	COP <sub>d</sub> (declared COP)	-	2.16
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@T <sub>designh</sub> : -10°C)	[kW]	1.69