

# Product fiche

HEAT PUMP SPACE HEATER		Model	AQM120X3
Unit sound power (*)	Average climate low temperature application	[dB(A)]	65.0
	Average climate medium temperature application	[dB(A)]	65.0
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]	12.0
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	189.3
	Annual energy consumption	[kWh]	5,153
Space heating 55°C	P <sub>rated</sub> (declared heating capacity) @ -10°C	[kW]	11.6
	Seasonal space heating efficiency (η <sub>s</sub> )	[%]	135.1
	Annual energy consumption	[kWh]	6,928
<b>Part load conditions space heating average climate low temperature application</b>			
(A) condition (-7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	10.61
	COP <sub>d</sub> (declared COP)	-	2.88
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	6.69
	COP <sub>d</sub> (declared COP)	-	4.65
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	4.44
	COP <sub>d</sub> (declared COP)	-	6.62
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	3.74
	COP <sub>d</sub> (declared COP)	-	8.47
	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]	10.74
	COP <sub>d</sub> (declared COP)	-	2.77
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	10.61
	COP <sub>d</sub> (declared COP)	-	2.88
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@Tdesignh: -10°C)	[kW]	1.26
<b>Part load conditions space heating average climate medium temperature application</b>			
(A) condition (-7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	10.24
	COP <sub>d</sub> (declared COP)	-	2.01
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(B) condition (2°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	6.52
	COP <sub>d</sub> (declared COP)	-	3.44
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(C) condition (7°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	4.36
	COP <sub>d</sub> (declared COP)	-	4.59
	C <sub>dh</sub> (degradation coefficient)	-	0.00
(D) condition (12°C)	P <sub>dh</sub> (declared heating capacity)	[kW]	3.29
	COP <sub>d</sub> (declared COP)	-	6.05
	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]	9.10
	COP <sub>d</sub> (declared COP)	-	1.79
	W <sub>TOL</sub> (Heating water Operation Limit)	[°C]	60.00
(F) Tbivalent temperature	Tblv	[°C]	-7.00
	P <sub>dh</sub> (declared heating capacity)	[kW]	10.27
	COP <sub>d</sub> (declared COP)	-	10.27
Supplementary capacity at P <sub>design</sub>	P <sub>sup</sub> (@Tdesignh: -10°C)	[kW]	2.50

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.