

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	Samsung EHS TDM Plus R410A 9 kW 3Phase (wall-mounted hydro unit)	Reg. No.	011-1W0377
Certificate Holder			
Name	Samsung Electronics Air Conditioner Europe B.V.		
Address	Evert van de Beekstraat 310	Zip	1118 CX
City	Schiphol	Country	Netherlands
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	KIWA, Netherlands		
Subtype title	Samsung EHS TDM Plus R410A 9 kW 3Phase (wall-mounted hydro unit)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.4 kg		
Certification Date	29.07.2020		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 7		

# Model: AE090MXTPGH/EU & AE090MNYDGH/EU

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	9.00 kW	7.66 kW
El input	2.12 kW	2.82 kW
COP	4.25	2.69
Indoor water flow rate	1.56 m <sup>3</sup> /h	0.86 m <sup>3</sup> /h

### EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Average Climate

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	175 %	111 %
Prated	6.00 kW	5.00 kW
SCOP	4.44	2.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	4.60 kW
COP Tj = -7°C	2.63	1.91
Cdh	0.90	0.90
Pdh Tj = +2°C	3.00 kW	2.80 kW
COP Tj = +2°C	4.47	2.78
Cdh	0.90	0.90
Pdh Tj = +7°C	3.20 kW	2.60 kW
COP Tj = +7°C	5.96	3.59
Cdh	0.90	0.90

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Pdh Tj = 12°C	3.00 kW	2.50 kW
COP Tj = 12°C	8.27	4.72
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.60 kW	5.20 kW
COP Tj = Tbiv	2.31	1.68
Pdh Tj = TOL	5.60 kW	5.20 kW
COP Tj = TOL	2.31	1.68
WTOL	55 °C	55 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2644 kWh	3871 kWh