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

Summary of	Samsung EHS TDM Plus R410A 4.4kW & 6.6kW (wall-mounted hydro unit)	Reg. No.	011-1W0371
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	TÜV Rheinland Korea Ltd.		
Subtype title	Samsung EHS TDM Plus R410A 4.4kW & 6.6kW (wall-mounted hydro unit)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	2.6 kg		
Certification Date	29.07.2020		
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 7		

Model: AE044MXTPEH/EU & AE090MNYDEH/EU

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	4.40 kW	3.83 kW
El input	0.93 kW	1.37 kW
COP	4.73	2.80
Indoor water flow rate	0.76 m³/h	0.41 m³/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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	110 %
Prated	4.00 kW	4.00 kW
SCOP	4.41	2.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.50 kW	3.50 kW
COP Tj = -7°C	2.80	1.96
Cdh	0.90	0.90
Pdh Tj = +2°C	2.20 kW	2.10 kW
COP Tj = +2°C	4.48	2.74
Cdh	0.90	0.90
Pdh Tj = +7°C	2.50 kW	2.30 kW
COP Tj = +7°C	5.82	3.43
Cdh	0.90	0.90

Pdh Tj = 12°C	2.30 kW	2.10 kW
COP Tj = 12°C	7.23	5.29
Cdh	0.90	0.90
Pdh Tj = Tbiv	4.00 kW	3.90 kW
COP Tj = Tbiv	2.68	1.77
Pdh Tj = TOL	4.00 kW	3.90 kW
COP Tj = TOL	2.68	1.77
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	1911 kWh	2930 kWh

Model: AE066MXTPEH/EU & AE090MNYDEH/EU

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	6.60 kW	4.80 kW
El input	1.47 kW	1.85 kW
COP	4.49	2.59
Indoor water flow rate	1.14 m³/h	0.52 m³/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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	48 dB(A)	48 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	173 %	115 %
Prated	5.00 kW	5.00 kW
SCOP	4.41	2.96
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.00 kW
COP Tj = -7°C	2.80	2.07
Cdh	0.90	0.90
Pdh Tj = +2°C	2.70 kW	2.40 kW
COP Tj = +2°C	4.38	2.85
Cdh	0.90	0.90
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.78	3.61
Cdh	0.90	0.90

Pdh Tj = 12°C	2.40 kW	2.10 kW
COP Tj = 12°C	7.37	5.29
Cdh	0.90	0.90
Pdh Tj = Tbiv	5.00 kW	4.50 kW
COP Tj = Tbiv	2.76	1.86
Pdh Tj = TOL	5.00 kW	4.50 kW
COP Tj = TOL	2.76	1.86
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	2388 kWh	3234 kWh