

Subtype Samsung EHS TDM Plus R410A 4.4kW & 6.6kW (wall-mounted hydro unit)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
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City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS TDM Plus R410A 4.4kW & 6.6kW (wall-mounted hydro unit)
Registration number	011-1W0371
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

Model name	AE044MXTPEH/EU & AE090MNYDEH/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

	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 | Average Climate

	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	2.20 kW	2.10 kW
COP Tj = +2°C	4.48	2.74
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	2.50 kW	2.30 kW
COP Tj = +7°C	5.82	3.43
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	2.30 kW	2.10 kW
COP Tj = 12°C	7.23	5.29
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	4.00 kW	3.90 kW

COP Tj = Tbiv	2.68	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.00 kW	3.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	1911 kWh	2930 kWh

Model AE066MXTPEH/EU & AE090MNYDEH/EU

Model name	AE066MXTPEH/EU & AE090MNYDEH/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water

EN 14511-4 | Heating

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

EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
η_s	173 %	115 %
Prated	5.00 kW	4.50 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 Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.70 kW	2.40 kW
COP Tj = +2°C	4.38	2.85
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	2.60 kW	2.30 kW
COP Tj = +7°C	5.78	3.61
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	2.40 kW	2.10 kW
COP Tj = 12°C	7.37	5.29
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.00 kW	4.50 kW

COP Tj = Tbiv	2.76	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	4.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	1.86
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2388 kWh	3234 kWh