

## Subtype Samsung EHS TDM Plus R410A 9 kW 1Phase (space heating/ 260L)

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 9 kW 1Phase (space heating/ 260L)
Registration number	011-1W0373
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 AE090MXTPEH/EU &amp; AE260TNWTEH/EU

Model name	AE090MXTPEH/EU & AE260TNWTEH/EU
Application	Heating + DHW + low 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 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	105 %
COP	2.60
Heating up time	2:30 h:min
Standby power input	85.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	290 l

## 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9.00 kW	7.66 kW
El input	2.12 kW	2.82 kW
COP	4.25	2.72

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 dB(A)
Sound power level outdoor	69 dB(A)	69 dB(A)

## EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	174 %	117 %

Prated	5.60 kW	5.50 kW
SCOP	4.42	3.01
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.00 kW	4.90 kW
COP Tj = -7°C	2.67	1.77
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	3.00 kW	3.00 kW
COP Tj = +2°C	4.47	3.02
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.20 kW	2.30 kW
COP Tj = +7°C	5.74	3.90
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	3.00 kW	2.20 kW
COP Tj = 12°C	8.27	4.90
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.60 kW	5.50 kW
COP Tj = Tbiv	2.31	1.59
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.59
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	2660 kWh	3885 kWh