

## Subtype Samsung EHS TDM Plus R410A 9 kW 3Phase (space heating/ 260L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
ZIP	1118 CX
City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS TDM Plus R410A 9 kW 3Phase (space heating/ 260L)
Registration number	011-1W0376
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.4 kg
Certification Date	29.07.2020
Testing basis	HP KEYMARK certification scheme rules rev. 14

## Model AE090MXTPGH/EU AE260TNWTEH/EU

Model name	AE090MXTPGH/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	3x400V 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	2.69

## 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
$\eta_s$	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 Tj = -7 °C	0.90	0.90
Pdh Tj = +2°C	3.00 kW	2.80 kW
COP Tj = +2°C	4.47	2.78
Cdh Tj = +2 °C	0.90	0.90
Pdh Tj = +7°C	3.20 kW	2.60 kW
COP Tj = +7°C	5.96	3.59
Cdh Tj = +7 °C	0.90	0.90
Pdh Tj = 12°C	3.00 kW	2.50 kW
COP Tj = 12°C	8.27	4.72
Cdh Tj = +12 °C	0.90	0.90
Pdh Tj = Tbiv	5.60 kW	5.20 kW
COP Tj = Tbiv	2.31	1.68
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	5.20 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2644 kWh	3871 kWh

## Model AE090MXTPGH/EU AE090MNYDGH/EU

Model name	AE090MXTPGH/EU AE090MNYDGH/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	3x400V 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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	9 kW	7.66 kW
El input	2.12 kW	2.82 kW
COP	4.25	2.69

## EN 12102-1 | Average Climate

	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 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	175 %	111 %
Prated	6 kW	5 kW
SCOP	4.44	2.86
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5 kW	4.6 kW
COP Tj = -7°C	2.63	1.91
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	3 kW	2.8 kW
COP Tj = +2°C	4.47	2.78
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.2 kW	2.6 kW
COP Tj = +7°C	5.96	3.59
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	3 kW	2.5 kW
COP Tj = 12°C	8.27	4.72
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5.6 kW	5.2 kW
COP Tj = Tbiv	2.31	1.68
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.6 kW	5.2 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.9	0.9
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 kW	0 kW
Annual energy consumption Qhe	2644 kWh	3871 kWh

## Model AE090MXTPGH/EU AE090BNYDGH/EU

Model name	AE090MXTPGH/EU AE090BNYDGH/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	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

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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 kW	0 kW
Annual energy consumption Qhe	2644 kWh	3871 kWh