

## Subtype Samsung EHS TDM Plus R410A 9 kW 3Phase(WMH/TIH 200L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
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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 3Phase(WMH/TIH 200L)
Registration number	011-1W0997
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.4 kg
Certification Date	17.03.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

## Model AE090MXTPGH/EU+AE200DNXTPH/EU

Model name	AE090MXTPGH/EU+AE200DNXTPH/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	L
Efficiency $\eta_{DHW}$	148 %
COP	3.4
Heating up time	1:26 h:min
Standby power input	45 W
Reference hot water temperature	49 °C
Mixed water at 40°C	220 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 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	45 dB(A)	45 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
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.31	1.68
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+ AE200DNWTPH/EU

Model name	AE090MXTPGH/EU+ AE200DNWTPH/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

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Efficiency $\eta_{DHW}$	148 %
COP	3.4
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Standby power input	45 W
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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	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 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
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WTOL	55 °C	55 °C
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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+ AE160DNYTPH/EU

Model name	AE090MXTPGH/EU+ AE160DNYTPH/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
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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+AE160DNZTPH/EU

Model name	AE090MXTPGH/EU+AE160DNZTPH/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
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