

Subtype Samsung EHS TDM Plus R410A 4.4 kW & 6.6 kW (space heating/ 260L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
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Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS TDM Plus R410A 4.4 kW & 6.6 kW (space heating/ 260L)
Registration number	011-1W0370
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	2.6 kg
Certification Date	29.07.2020
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model AE044MXTPEH/EU & AE260TNWTEH/EU

Model name	AE044MXTPEH/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 η_{DHW}	105 %
COP	2.60
Heating up time	2:50 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	4.40 kW	3.83 kW
EI input	0.93 kW	1.37 kW
COP	4.73	2.80

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	43 dB(A)	43 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 & AE260TNWTEH/EU

Model name	AE066MXTPEH/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 η_{DHW}	105 %
COP	2.60
Heating up time	2:50 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	6.60 kW	4.80 kW
El input	1.47 kW	1.85 kW
COP	4.49	2.59

EN 12102-1 | Average Climate

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

Model AE044MXTPEH/EU & AE090BNYDEH/EU

Model name	AE044MXTPEH/EU & AE090BNYDEH/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.4 kW	3.83 kW
El input	0.93 kW	1.37 kW
COP	4.73	2.8

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 kW	4 kW
SCOP	4.41	2.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.5 kW	3.5 kW
COP Tj = -7°C	2.8	1.96
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.2 kW	2.1 kW
COP Tj = +2°C	4.48	2.74
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	2.5 kW	2.3 kW
COP Tj = +7°C	5.82	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.3 kW	2.1 kW
COP Tj = 12°C	7.23	5.29
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	4 kW	3.9 kW
COP Tj = Tbiv	2.68	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.77
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	1911 kWh	2930 kWh

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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	4.4 kW	3.83 kW
El input	0.93 kW	1.37 kW
COP	4.73	2.8

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 kW	4 kW
SCOP	4.41	2.83
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	3.5 kW	3.5 kW
COP Tj = -7°C	2.8	1.96
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.2 kW	2.1 kW
COP Tj = +2°C	4.48	2.74
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	2.5 kW	2.3 kW
COP Tj = +7°C	5.82	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.3 kW	2.1 kW
COP Tj = 12°C	7.23	5.29
Cdh Tj = +12 °C	0.9	0.9
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COP Tj = Tbiv	2.68	1.77
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4 kW	3.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.77
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	1911 kWh	2930 kWh

Model AE066MXTPEH/EU & AE090BNYDEH/EU

Model name	AE066MXTPEH/EU & AE090BNYDEH/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 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	6.6 kW	4.8 kW
El input	1.47 kW	1.85 kW
COP	4.49	2.59

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 kW	4.5 kW
SCOP	4.41	2.96
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	2.8	2.07
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.7 kW	2.4 kW
COP Tj = +2°C	4.38	2.85
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	2.6 kW	2.3 kW
COP Tj = +7°C	5.78	3.6
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.4 kW	2.1 kW
COP Tj = 12°C	7.37	5.29
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5 kW	4.5 kW
COP Tj = Tbiv	2.76	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5 kW	4.5 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	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	2388 kWh	3234 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

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	Low temperature	Medium temperature
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	Low temperature	Medium temperature
η_s	173 %	115 %
Prated	5 kW	4.5 kW
SCOP	4.41	2.96
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.4 kW	4 kW
COP Tj = -7°C	2.8	2.07
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	2.7 kW	2.4 kW
COP Tj = +2°C	4.38	2.85
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	2.6 kW	2.3 kW
COP Tj = +7°C	5.78	3.6
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	2.4 kW	2.1 kW
COP Tj = 12°C	7.37	5.29
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	5 kW	4.5 kW
COP Tj = Tbiv	2.76	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5 kW	4.5 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	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	2388 kWh	3234 kWh