Subtype Samsung EHS TDM Plus R410A 12 kW & 16 kW(WMHTIH 200L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
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Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS TDM Plus R410A 12 kW & 16 kW(WMHTIH 200L)
Registration number	011-1W0998
Heat Pump Type	Outdoor Air/Water
Refrigerant	R410A
Mass of Refrigerant	3.5 kg
Certification Date	17.03.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model AE120MXTPEH/EU AE200DNXTPH/EU	
Model name	AE120MXTPEH/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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %

Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPEH/EU AE200DNWTPH/EU	
Model name	AE120MXTPEH/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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	183 %	114 %

Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPEH/EU AE160DNZTPH/EU	
Model name	AE120MXTPEH/EU AE160DNZTPH/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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %
Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPEH/EU AE160DNYTPH/EU	
Model name	AE120MXTPEH/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	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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %
Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPGH/EU AE200DNXTPH/EU	
Model name	AE120MXTPGH/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 ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	183 %	114 %

Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPGH/EU AE200DNWTPH/EU	
Model name	AE120MXTPGH/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	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %

Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPGH/EU AE160DNZTPH/EU	
Model name	AE120MXTPGH/EU AE160DNZTPH/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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %
Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE120MXTPGH/EU AE160DNYTPH/EU	
Model name	AE120MXTPGH/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	12 kW	10.72 kW
El input	2.72 kW	3.91 kW
COP	4.41	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	70 dB(A)	70 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	183 %	114 %
Prated	10 kW	8 kW
SCOP	4.65	2.92
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.8 kW	7.1 kW
COP Tj = -7°C	2.72	1.94
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	5.4 kW	4.3 kW
COP Tj = +2°C	4.69	2.86
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.5 kW	2.8 kW
COP Tj = +7°C	5.92	3.43
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	10 kW	8 kW
COP Tj = Tbiv	2.41	1.79
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10 kW	8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.79
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	4516 kWh	5799 kWh

Model AE160MXTPEH/EU AE200DNXTPH/EU	
Model name	AE160MXTPEH/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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water	
EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %

Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPEH/EU AE200DNWTPH/EU	
Model name	AE160MXTPEH/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	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water EN 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	182 %	119 %

Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPEH/EU AE160DNZTPH/EU	
Model name	AE160MXTPEH/EU AE160DNZTPH/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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %
Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPEH/EU AE160DNYTPH/EU	
Model name	AE160MXTPEH/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	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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %
Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPGH/EU AE200DNXTPH/EU	
Model name	AE160MXTPGH/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 ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate	Low temperature	Medium temperature
ηs	182 %	119 %

Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPGH/EU AE200DNWTPH/EU	
Model name	AE160MXTPGH/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	
Declared load profile	L
Efficiency ηDHW	148 %
COP	3.40
Heating up time	1:10 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %

Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9
Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPGH/EU AE160DNZTPH/EU	
Model name	AE160MXTPGH/EU AE160DNZTPH/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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	47 dB(A)	47 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %
Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh

Model AE160MXTPGH/EU AE160DNYTPH/EU	
Model name	AE160MXTPGH/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	16 kW	14.6 kW
El input	3.95 kW	5.32 kW
COP	4.05	2.74

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level indoor	45 dB(A)	45 dB(A)
Sound power level outdoor	73 dB(A)	73 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	182 %	119 %
Prated	11 kW	9 kW
SCOP	4.63	3.06
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.9 kW	7.8 kW
COP Tj = -7°C	2.65	2.01
Cdh Tj = -7 °C	0.9	0.9
Pdh Tj = +2°C	6 kW	4.7 kW
COP Tj = +2°C	4.62	2.97
Cdh Tj = +2 °C	0.9	0.9

Pdh Tj = +7°C	3.9 kW	3.5 kW
COP Tj = +7°C	6.12	3.73
Cdh Tj = +7 °C	0.9	0.9
Pdh Tj = 12°C	4.4 kW	5 kW
COP Tj = 12°C	7.85	5.52
Cdh Tj = +12 °C	0.9	0.9
Pdh Tj = Tbiv	11.2 kW	8.8 kW
COP Tj = Tbiv	2.33	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.2 kW	8.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.3	1.83
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	5086 kWh	6111 kWh