

Page 1 of 5 This information was generated by the HP KEYMARK database on 18 Mar 2022

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Summary of	Samsung EHS TDM Plus R410A 9 kW 3Phase (space heating/ 200L)	Reg. No.	011- 1W0375	
Certificate Holder	Certificate Holder			
Name	Samsung Electronics Air Conditioner Europe B.V.			
Address	Evert van de Beekstraat 310	Zip	1118 CX	
City	Schiphol	Country	Netherlands	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH			
Subtype title	Samsung EHS TDM Plus R410A 9 kW 3Phase (space heating/ 200L)			
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			

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Model: AE090MXTPGH/EU & AE200TNWTEH/EU

Configure model		
Model name	AE090MXTPGH/EU & AE200TNWTEH/EU	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.00 kW	7.66 kW	
El input	2.12 kW	2.82 kW	
СОР	4.25	2.69	

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

Average Climate

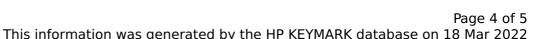


 $$\operatorname{\textit{Page}}\ 3$$ of 5 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 12102-1		
	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		
	Low temperature	Medium temperature
η_{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

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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
РТО	22 W	22 W
PSB	22 W	22 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW

Domestic Hot Water (DHW)

Annual energy consumption Qhe

CEN heat pump KEYMARK

Average Climate

2644 kWh

3871 kWh





$$\operatorname{\textit{Page}}\xspace\:5\:\text{of}\:5\:$ This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	115 %	
СОР	2.75	
Heating up time	2:00 h:min	
Standby power input	82.0 W	
Reference hot water temperature	52.1 °C	
Mixed water at 40°C	225	