

Subtype Samsung EHS R290 5kW(WMH/TIH 200L)

Certificate Holder	Samsung Electronics Air Conditioner Europe B.V.
Address	Evert van de Beekstraat 310
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City	Schiphol
Country	NL
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Samsung EHS R290 5kW(WMH/TIH 200L)
Registration number	011-1W0807
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.63 kg
Certification Date	25.06.2024
Testing basis	European KEYMARK Scheme for Heat Pumps rev.14 (as of 2024-04)

Model AE050CXYDEK/EU AE200DNXMPK/EU

Model name	AE050CXYDEK/EU AE200DNXMPK/EU
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 η_{DHW}	148 %
COP	3.40
Heating up time	2:25 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	220 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	2:02 h:min
Standby power input	40.0 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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.90 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.60 kW	0.70 kW
Annual energy consumption Qhe	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh

Model AE050CXYDEK/EU AE200DNWMPK/EU

Model name	AE050CXYDEK/EU AE200DNWMPK/EU
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 η_{DHW}	148 %
COP	3.40
Heating up time	2:25 h:min
Standby power input	45.0 W
Reference hot water temperature	49.0 °C
Mixed water at 40°C	220 l

EN 16147 | Warmer Climate

Declared load profile	L
Efficiency η_{DHW}	162 %
COP	3.80
Heating up time	2:02 h:min
Standby power input	40.0 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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_S	201 %	141 %
P _{rated}	5.50 kW	5.50 kW
SCOP	5.10	3.60
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	4.87 kW	4.87 kW
COP T _j = -7°C	3.06	2.15
C _{dh T_j} = -7 °C	0.900	0.900
P _{dh T_j} = +2°C	2.96 kW	2.96 kW
COP T _j = +2°C	5.08	3.56
C _{dh T_j} = +2 °C	0.900	0.900
P _{dh T_j} = +7°C	1.90 kW	1.90 kW
COP T _j = +7°C	6.85	4.85
C _{dh T_j} = +7 °C	0.900	0.900
P _{dh T_j} = 12°C	1.90 kW	1.70 kW
COP T _j = 12°C	8.40	5.80
C _{dh T_j} = +12 °C	0.900	0.900
P _{dh T_j} = T _{biv}	4.87 kW	4.87 kW
COP T _j = T _{biv}	3.06	2.15
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	4.90 kW	4.80 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.63	1.90
C _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	0.900	0.900
WT _{OL}	75 °C	75 °C
P _{off}	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	0.60 kW	0.70 kW
Annual energy consumption Q _{he}	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh

Model AE050CXYDEK/EU AE160DNZMPK/EU

Model name	AE050CXYDEK/EU AE160DNZMPK/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.90 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.60 kW	0.70 kW
Annual energy consumption Qhe	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	42 dB(A)	42 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh

Model AE050CXYDEK/EU AE160DNYMPK/EU

Model name	AE050CXYDEK/EU AE160DNYMPK/EU
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900

Pdh Tj = +7°C	1.90 kW	1.90 kW
COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.90 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.60 kW	0.70 kW
Annual energy consumption Qhe	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh

Model AE050CXYDEK/EU MIM-E03FN

Model name	AE050CXYDEK/EU MIM-E03FN
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.90 kW	1.90 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.60 kW	0.70 kW
Annual energy consumption Qhe	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh

Model AE050CXYDEK/EU MIM-E03GN

Model name	AE050CXYDEK/EU MIM-E03GN
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	5.00 kW	5.00 kW
El input	0.98 kW	1.61 kW
COP	5.10	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	201 %	141 %
Prated	5.50 kW	5.50 kW
SCOP	5.10	3.60
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.87 kW	4.87 kW
COP Tj = -7°C	3.06	2.15
Cdh Tj = -7 °C	0.900	0.900
Pdh Tj = +2°C	2.96 kW	2.96 kW
COP Tj = +2°C	5.08	3.56
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	1.90 kW	1.90 kW

COP Tj = +7°C	6.85	4.85
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.90 kW	1.70 kW
COP Tj = 12°C	8.40	5.80
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	4.87 kW	4.87 kW
COP Tj = Tbiv	3.06	2.15
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.90 kW	4.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.90
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	0.60 kW	0.70 kW
Annual energy consumption Qhe	2221 kWh	3148 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	55 dB(A)	55 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	271 %	187 %
Prated	5.50 kW	5.50 kW
SCOP	6.86	4.74
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.50 kW	5.50 kW
COP Tj = +2°C	3.80	2.50
Cdh Tj = +2 °C	0.900	0.900
Pdh Tj = +7°C	3.54 kW	3.54 kW
COP Tj = +7°C	6.40	4.00
Cdh Tj = +7 °C	0.900	0.900
Pdh Tj = 12°C	1.75 kW	1.70 kW
COP Tj = 12°C	8.30	6.30
Cdh Tj = +12 °C	0.900	0.900
Pdh Tj = Tbiv	5.50 kW	5.50 kW
COP Tj = Tbiv	3.80	2.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.50 kW	5.50 kW

COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.80	2.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	75 °C	75 °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	1054 kWh	1533 kWh