Subtype Aquarea T-CAP 20-25 kW (M Series)

Certificate Holder	Panasonic Marketing Europe GmbH
Address	Hagenauer Strasse 43, Wiesbaden
ZIP	65203
City	Wiesbaden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Aquarea T-CAP 20-25 kW (M Series)
Registration number	011-1W0925
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	3 kg
Certification Date	14.11.2024
Testing basis	European KEYMARK Scheme for Heat Pumps V.14 (2024-04)

Model WH-WXG20ME8 (Outdoor unit Stand-alone)	
Model name	WH-WXG20ME8 (Outdoor unit Stand-alone)
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	20.00 kW	20.00 kW
El input	4.16 kW	6.28 kW
COP	4.80	3.18

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	6.62 kW	
Cooling capacity	20.00	
EER	3.02	

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
ηs	171 %	141 %
Prated	20.00 kW	20.00 kW
SCOP	4.36	3.59
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	18.90 kW	22.20 kW
COP Tj = -7°C	2.99	2.19
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	11.60 kW	10.90 kW
COP Tj = +2°C	4.12	3.54
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	8.70 kW	8.70 kW
COP Tj = +7°C	5.96	4.71
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.80 kW	9.80 kW
COP Tj = 12°C	6.12	5.92
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	22.50 kW	22.50 kW
COP Tj = Tbiv	2.40	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.50 kW	22.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	9483 kWh	11496 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	120 %	100 %
Prated	20.00 kW	20.00 kW
SCOP	3.07	2.57
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	12.10 kW	12.10 kW
COP Tj = -7°C	2.43	1.97
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.30 kW	7.30 kW
COP Tj = +2°C	3.49	3.06
Cdh Tj = +2 °C	0.980	0.980

Pdh Tj = +7°C	7.60 kW	7.00 kW
COP Tj = +7°C	4.63	3.78
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.60 kW	8.10 kW
COP Tj = 12°C	6.01	5.28
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	16.30 kW	16.30 kW
COP Tj = Tbiv	2.37	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	19.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.77	1.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	16056 kWh	19167 kWh
Pdh Tj = -15°C (if TOL	16.30	16.30
COP Tj = -15°C (if TOL	2.37	1.86
Cdh Tj = -15 °C	0.990	0.990

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	212 %	160 %
Prated	20.00 kW	20.00 kW
SCOP	5.37	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	20.00 kW	20.00 kW
COP Tj = +2°C	3.39	2.08
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	12.80 kW	12.90 kW
COP Tj = +7°C	5.22	3.78
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	8.60 kW	7.90 kW
COP Tj = 12°C	6.07	4.92
Cdh Tj = +12 °C	0.960	0.970

Pdh Tj = Tbiv	20.00 kW	20.00 kW
COP Tj = Tbiv	3.39	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.00 kW	20.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.39	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	4975 kWh	6559 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	20.00 kW	
SEER	4.45	
Pdc Tj = 35°C	20.00 kW	
EER Tj = 35°C	3.02	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	14.74 kW	
EER Tj = 30°C	4.39	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	9.47 kW	
EER Tj = 25°C	5.31	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	6.39 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	0.960	
Poff	40 W	
PTO	50 W	
PSB	40 W	
PCK	0 W	
Annual energy consumption Qce	1571 kWh	

Model WH-CME8L / WH-WXG20ME8	
Model name	WH-CME8L / WH-WXG20ME8
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	20.00 kW	20.00 kW
El input	4.16 kW	6.28 kW
COP	4.80	3.18

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	6.62 kW	
Cooling capacity	20.00	
EER	3.02	

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
ηs	171 %	141 %
Prated	20.00 kW	20.00 kW
SCOP	4.36	3.59
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	18.90 kW	22.20 kW
COP Tj = -7°C	2.99	2.19
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	11.60 kW	10.90 kW
COP Tj = +2°C	4.12	3.54
Cdh Tj = +2 °C	0.980	0.980
Pdh Tj = +7°C	8.70 kW	8.70 kW
COP Tj = +7°C	5.96	4.71
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.80 kW	9.80 kW
COP Tj = 12°C	6.12	5.92
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	22.50 kW	22.50 kW
COP Tj = Tbiv	2.40	1.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	22.50 kW	22.50 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.40	1.91
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	9483 kWh	11496 kWh

EN 12102-1 | Colder Climate

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

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	120 %	100 %
Prated	20.00 kW	20.00 kW
SCOP	3.07	2.57
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	12.10 kW	12.10 kW
COP Tj = -7°C	2.43	1.97
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	7.30 kW	7.30 kW
COP Tj = +2°C	3.49	3.06
Cdh Tj = +2 °C	0.980	0.980

Pdh Tj = +7°C	7.60 kW	7.00 kW
COP Tj = +7°C	4.63	3.78
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.60 kW	8.10 kW
COP Tj = 12°C	6.01	5.28
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	16.30 kW	16.30 kW
COP Tj = Tbiv	2.37	1.86
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	19.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.77	1.38
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.00 kW	1.00 kW
Annual energy consumption Qhe	16056 kWh	19167 kWh
Pdh Tj = -15°C (if TOL	16.30	16.30
COP Tj = -15°C (if TOL	2.37	1.86
Cdh Tj = -15 °C	0.990	0.990

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	212 %	160 %
Prated	20.00 kW	20.00 kW
SCOP	5.37	4.07
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	20.00 kW	20.00 kW
COP Tj = +2°C	3.39	2.08
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	12.80 kW	12.90 kW
COP Tj = +7°C	5.22	3.78
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	8.60 kW	7.90 kW
COP Tj = 12°C	6.07	4.92
Cdh Tj = +12 °C	0.960	0.970

Pdh Tj = Tbiv	20.00 kW	20.00 kW
COP Tj = Tbiv	3.39	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	20.00 kW	20.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.39	2.08
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	0.990
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	4975 kWh	6559 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	20.00 kW	
SEER	4.45	
Pdc Tj = 35°C	20.00 kW	
EER Tj = 35°C	3.02	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	14.74 kW	
EER Tj = 30°C	4.39	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	9.47 kW	
EER Tj = 25°C	5.31	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	6.39 kW	
EER Tj = 20°C	5.13	
Cdc Tj = 20 °C	0.960	
Poff	40 W	
PTO	50 W	
PSB	40 W	
PCK	0 W	
Annual energy consumption Qce	1571 kWh	

Model WH-WXG25ME8 (Outdoor unit Stand-alone)	
Model name	WH-WXG25ME8 (Outdoor unit Stand-alone)
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	25.00 kW	25.00 kW
El input	5.55 kW	8.33 kW
COP	4.50	3.00

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	8.74 kW	
Cooling capacity	25.00	
EER	2.86	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	167 %	140 %
Prated	25.00 kW	25.00 kW
SCOP	4.25	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	22.10 kW	24.40 kW
COP Tj = -7°C	2.42	2.09
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	13.50 kW	13.90 kW
COP Tj = +2°C	4.24	3.55
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	8.70 kW	9.80 kW
COP Tj = +7°C	5.88	4.78
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	8.80 kW	9.80 kW
COP Tj = 12°C	6.08	5.74
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	26.10 kW	27.10 kW
COP Tj = Tbiv	2.19	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	26.10 kW	27.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	12152 kWh	14462 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	123 %	105 %
Prated	25.00 kW	25.00 kW
SCOP	3.16	2.71
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	15.10 kW	15.10 kW
COP Tj = -7°C	2.45	2.02
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	9.20 kW	9.20 kW
COP Tj = +2°C	3.76	3.33
Cdh Tj = +2 °C	0.980	0.980

Pdh Tj = +7°C	7.70 kW	7.10 kW
COP Tj = +7°C	4.45	4.03
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.70 kW	8.10 kW
COP Tj = 12°C	5.80	5.20
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	20.30 kW	20.30 kW
COP Tj = Tbiv	2.41	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	19.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.76	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	19528 kWh	22759 kWh
Pdh Tj = -15°C (if TOL	20.30	20.30
COP Tj = -15°C (if TOL	2.41	1.93
Cdh Tj = -15 °C	0.990	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	206 %	163 %
Prated	25.00 kW	25.00 kW
SCOP	5.22	4.14
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	25.00 kW	25.00 kW
COP Tj = +2°C	2.80	1.97
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	16.00 kW	16.00 kW
COP Tj = +7°C	5.02	3.68
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	8.70 kW	8.00 kW
COP Tj = 12°C	6.03	5.23
Cdh Tj = +12 °C	0.970	0.970

Pdh Tj = Tbiv	25.00 kW	25.00 kW
COP Tj = Tbiv	2.80	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.00 kW	25.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	6395 kWh	8063 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	25.00 kW	
SEER	4.58	
Pdc Tj = 35°C	25.00 kW	
EER Tj = 35°C	2.86	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	18.42 kW	
EER Tj = 30°C	4.31	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	11.84 kW	
EER Tj = 25°C	5.55	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.56 kW	
EER Tj = 20°C	5.29	
Cdc Tj = 20 °C	0.960	
Poff	40 W	
PTO	50 W	
PSB	40 W	
PCK	0 W	
Annual energy consumption Qce	1911 kWh	

Model WH-CME8L / WH-WXG25ME8	
Model name	WH-CME8L / WH-WXG25ME8
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	25.00 kW	25.00 kW
El input	5.55 kW	8.33 kW
COP	4.50	3.00

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	8.74 kW	
Cooling capacity	25.00	
EER	2.86	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	167 %	140 %
Prated	25.00 kW	25.00 kW
SCOP	4.25	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	22.10 kW	24.40 kW
COP Tj = -7°C	2.42	2.09
Cdh Tj = -7 °C	0.990	1.000
Pdh Tj = +2°C	13.50 kW	13.90 kW
COP Tj = +2°C	4.24	3.55
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	8.70 kW	9.80 kW
COP Tj = +7°C	5.88	4.78
Cdh Tj = +7 °C	0.970	0.980
Pdh Tj = 12°C	8.80 kW	9.80 kW
COP Tj = 12°C	6.08	5.74
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	26.10 kW	27.10 kW
COP Tj = Tbiv	2.19	1.62
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	26.10 kW	27.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.19	1.62
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	12152 kWh	14462 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	123 %	105 %
Prated	25.00 kW	25.00 kW
SCOP	3.16	2.71
Tbiv	-15 °C	-15 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	15.10 kW	15.10 kW
COP Tj = -7°C	2.45	2.02
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	9.20 kW	9.20 kW
COP Tj = +2°C	3.76	3.33
Cdh Tj = +2 °C	0.980	0.980

Pdh Tj = +7°C	7.70 kW	7.10 kW
COP Tj = +7°C	4.45	4.03
Cdh Tj = +7 °C	0.970	0.970
Pdh Tj = 12°C	8.70 kW	8.10 kW
COP Tj = 12°C	5.80	5.20
Cdh Tj = +12 °C	0.970	0.970
Pdh Tj = Tbiv	20.30 kW	20.30 kW
COP Tj = Tbiv	2.41	1.93
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	19.00 kW	19.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.76	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	19528 kWh	22759 kWh
Pdh Tj = -15°C (if TOL	20.30	20.30
COP Tj = -15°C (if TOL	2.41	1.93
Cdh Tj = -15 °C	0.990	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	206 %	163 %
Prated	25.00 kW	25.00 kW
SCOP	5.22	4.14
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	25.00 kW	25.00 kW
COP Tj = +2°C	2.80	1.97
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	16.00 kW	16.00 kW
COP Tj = +7°C	5.02	3.68
Cdh Tj = +7 °C	0.980	0.990
Pdh Tj = 12°C	8.70 kW	8.00 kW
COP Tj = 12°C	6.03	5.23
Cdh Tj = +12 °C	0.970	0.970

Pdh Tj = Tbiv	25.00 kW	25.00 kW
COP Tj = Tbiv	2.80	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	25.00 kW	25.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.97
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.990	1.000
WTOL	55 °C	55 °C
Poff	40 W	40 W
PTO	50 W	50 W
PSB	40 W	40 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	kW	kW
Annual energy consumption Qhe	6395 kWh	8063 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	25.00 kW	
SEER	4.58	
Pdc Tj = 35°C	25.00 kW	
EER Tj = 35°C	2.86	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	18.42 kW	
EER Tj = 30°C	4.31	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	11.84 kW	
EER Tj = 25°C	5.55	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.56 kW	
EER Tj = 20°C	5.29	
Cdc Tj = 20 °C	0.960	
Poff	40 W	
PTO	50 W	
PSB	40 W	
PCK	0 W	
Annual energy consumption Qce	1911 kWh	