

Subtype Aquarea T-CAP 16 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 16 kW (M Series)
Registration number	011-1W0924
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.77 kg
Certification Date	27.11.2024
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model WH-WXG16ME8 (Outdoor unit Stand-alone)

Model name	WH-WXG16ME8 (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, +18°C/+23°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	16.00 kW	16.00 kW
El input	3.27 kW	5.00 kW
COP	4.89	3.20

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.49 kW	1.71 kW
Cooling capacity	9.00	9.00
EER	3.61	5.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	16.00 kW	16.00 kW
SCOP	4.75	3.70
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	2.88	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.60 kW	8.60 kW
COP Tj = +2°C	4.59	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.50 kW	5.50 kW
COP Tj = +7°C	6.33	4.81
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	7.83	5.78
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	6966 kWh	8935 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	170 %	133 %
Prated	16.00 kW	16.00 kW
SCOP	4.33	3.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.70 kW	9.70 kW
COP Tj = -7°C	3.60	2.95
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.90 kW
COP Tj = +2°C	4.96	3.82
Cdh Tj = +2 °C	0.980	0.990

Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.18	4.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.49	5.84
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.03	1.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	9101 kWh	11613 kWh
Pdh Tj = -15°C (if TOL	13.10	13.10
COP Tj = -15°C (if TOL	2.96	2.19
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	240 %	175 %
Prated	16.00 kW	16.00 kW
SCOP	6.08	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	16.00 kW	16.00 kW
COP Tj = +2°C	3.00	2.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	10.30 kW	10.30 kW
COP Tj = +7°C	5.37	4.13
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	7.67	5.25
Cdh Tj = +12 °C	0.980	0.980

Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	3.00	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	3517 kWh	4801 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	9.00 kW
SEER	4.80	7.62
Pdc Tj = 35°C	9.00 kW	9.00 kW
EER Tj = 35°C	3.61	5.26
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.63 kW	7.45 kW
EER Tj = 30°C	4.40	7.05
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	6.46 kW	7.28 kW
EER Tj = 25°C	5.17	8.74
Cdc Tj = 25 °C	0.990	0.990
Pdc Tj = 20°C	6.78 kW	7.15 kW
EER Tj = 20°C	6.12	10.10
Cdc Tj = 20 °C	0.990	0.990
Poff	11 W	11 W
PTO	7 W	7 W
PSB	11 W	11 W
PCK	0 W	0 W
Annual energy consumption Qce	657 kWh	414 kWh

Model WH-CME8 / WH-WXG16ME8

Model name	WH-CME8 / WH-WXG16ME8
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°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	16.00 kW	16.00 kW
El input	3.27 kW	5.00 kW
COP	4.89	3.20

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.49 kW	1.71 kW
Cooling capacity	9.00	9.00
EER	3.61	5.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	16.00 kW	16.00 kW
SCOP	4.75	3.70
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	2.88	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.60 kW	8.60 kW
COP Tj = +2°C	4.59	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.50 kW	5.50 kW
COP Tj = +7°C	6.33	4.81
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	7.83	5.78
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	6966 kWh	8935 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
ηs	170 %	133 %
Prated	16.00 kW	16.00 kW
SCOP	4.33	3.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.70 kW	9.70 kW
COP Tj = -7°C	3.60	2.95
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.90 kW
COP Tj = +2°C	4.96	3.82
Cdh Tj = +2 °C	0.980	0.990

Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.18	4.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.49	5.84
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.03	1.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	9101 kWh	11613 kWh
Pdh Tj = -15°C (if TOL	13.10	13.10
COP Tj = -15°C (if TOL	2.96	2.19
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	240 %	175 %
Prated	16.00 kW	16.00 kW
SCOP	6.08	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	16.00 kW	16.00 kW
COP Tj = +2°C	3.00	2.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	10.30 kW	10.30 kW
COP Tj = +7°C	5.37	4.13
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	7.67	5.25
Cdh Tj = +12 °C	0.980	0.980

Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	3.00	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	3517 kWh	4801 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	9.00 kW
SEER	4.80	7.62
Pdc Tj = 35°C	9.00 kW	9.00 kW
EER Tj = 35°C	3.61	5.26
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.63 kW	7.45 kW
EER Tj = 30°C	4.40	7.05
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	6.46 kW	7.28 kW
EER Tj = 25°C	5.17	8.74
Cdc Tj = 25 °C	0.990	0.990
Pdc Tj = 20°C	6.78 kW	7.15 kW
EER Tj = 20°C	6.12	10.10
Cdc Tj = 20 °C	0.990	0.990
Poff	11 W	11 W
PTO	7 W	7 W
PSB	11 W	11 W
PCK	0 W	0 W
Annual energy consumption Qce	657 kWh	414 kWh

Model WH-ADC0316M9E82 / WH-WXG16ME8

Model name	WH-ADC0316M9E82 / WH-WXG16ME8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°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	16.00 kW	16.00 kW
El input	3.27 kW	5.00 kW
COP	4.89	3.20

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.49 kW	1.71 kW
Cooling capacity	9.00	9.00
EER	3.61	5.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	16.00 kW	16.00 kW
SCOP	4.75	3.70
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	2.88	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.60 kW	8.60 kW
COP Tj = +2°C	4.59	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.50 kW	5.50 kW
COP Tj = +7°C	6.33	4.81
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	7.83	5.78
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	6966 kWh	8935 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	170 %	133 %
Prated	16.00 kW	16.00 kW
SCOP	4.33	3.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.70 kW	9.70 kW
COP Tj = -7°C	3.60	2.95
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.90 kW

COP Tj = +2°C	4.96	3.82
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.18	4.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.49	5.84
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.03	1.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	9101 kWh	11613 kWh
Pdh Tj = -15°C (if TOL	13.10	13.10
COP Tj = -15°C (if TOL	2.96	2.19
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	240 %	175 %
Prated	16.00 kW	16.00 kW
SCOP	6.08	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	16.00 kW	16.00 kW
COP Tj = +2°C	3.00	2.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	10.30 kW	10.30 kW
COP Tj = +7°C	5.37	4.13
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	7.67	5.25
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	3.00	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	3517 kWh	4801 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	9.00 kW
SEER	4.80	7.62
Pdc Tj = 35°C	9.00 kW	9.00 kW
EER Tj = 35°C	3.61	5.26
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.63 kW	7.45 kW
EER Tj = 30°C	4.40	7.05
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	6.46 kW	7.28 kW
EER Tj = 25°C	5.17	8.74
Cdc Tj = 25 °C	0.990	0.990
Pdc Tj = 20°C	6.78 kW	7.15 kW
EER Tj = 20°C	6.12	10.10
Cdc Tj = 20 °C	0.990	0.990
Poff	11 W	11 W
PTO	7 W	7 W
PSB	11 W	11 W
PCK	0 W	0 W
Annual energy consumption Qce	657 kWh	414 kWh

Model WH-ADC0316M9E8AN2 / WH-WXG16ME8

Model name	WH-ADC0316M9E8AN2 / WH-WXG16ME8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°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	16.00 kW	16.00 kW
El input	3.27 kW	5.00 kW
COP	4.89	3.20

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.49 kW	1.71 kW
Cooling capacity	9.00	9.00
EER	3.61	5.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	16.00 kW	16.00 kW
SCOP	4.75	3.70
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	2.88	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.60 kW	8.60 kW
COP Tj = +2°C	4.59	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.50 kW	5.50 kW
COP Tj = +7°C	6.33	4.81
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	7.83	5.78
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	6966 kWh	8935 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	170 %	133 %
Prated	16.00 kW	16.00 kW
SCOP	4.33	3.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.70 kW	9.70 kW
COP Tj = -7°C	3.60	2.95
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.90 kW

COP Tj = +2°C	4.96	3.82
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.18	4.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.49	5.84
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.03	1.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	9101 kWh	11613 kWh
Pdh Tj = -15°C (if TOL	13.10	13.10
COP Tj = -15°C (if TOL	2.96	2.19
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	240 %	175 %
Prated	16.00 kW	16.00 kW
SCOP	6.08	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	16.00 kW	16.00 kW
COP Tj = +2°C	3.00	2.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	10.30 kW	10.30 kW
COP Tj = +7°C	5.37	4.13
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	7.67	5.25
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	3.00	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	3517 kWh	4801 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	9.00 kW
SEER	4.80	7.62
Pdc Tj = 35°C	9.00 kW	9.00 kW
EER Tj = 35°C	3.61	5.26
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.63 kW	7.45 kW
EER Tj = 30°C	4.40	7.05
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	6.46 kW	7.28 kW
EER Tj = 25°C	5.17	8.74
Cdc Tj = 25 °C	0.990	0.990
Pdc Tj = 20°C	6.78 kW	7.15 kW
EER Tj = 20°C	6.12	10.10
Cdc Tj = 20 °C	0.990	0.990
Poff	11 W	11 W
PTO	7 W	7 W
PSB	11 W	11 W
PCK	0 W	0 W
Annual energy consumption Qce	657 kWh	414 kWh

Model WH-SDC0316M9E8 / WH-WXG16ME8

Model name	WH-SDC0316M9E8 / WH-WXG16ME8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer Climate, Colder Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C, +18°C/+23°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	16.00 kW	16.00 kW
El input	3.27 kW	5.00 kW
COP	4.89	3.20

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.49 kW	1.71 kW
Cooling capacity	9.00	9.00
EER	3.61	5.26

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	187 %	145 %
Prated	16.00 kW	16.00 kW
SCOP	4.75	3.70
Tbiv	-10 °C	-10 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.20 kW
COP Tj = -7°C	2.88	2.22
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.60 kW	8.60 kW
COP Tj = +2°C	4.59	3.66
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.50 kW	5.50 kW
COP Tj = +7°C	6.33	4.81
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.80 kW	5.50 kW
COP Tj = 12°C	7.83	5.78
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.72	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	2.04
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	6966 kWh	8935 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	170 %	133 %
Prated	16.00 kW	16.00 kW
SCOP	4.33	3.40
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	9.70 kW	9.70 kW
COP Tj = -7°C	3.60	2.95
Cdh Tj = -7 °C	0.990	0.990
Pdh Tj = +2°C	5.90 kW	5.90 kW

COP Tj = +2°C	4.96	3.82
Cdh Tj = +2 °C	0.980	0.990
Pdh Tj = +7°C	5.00 kW	5.00 kW
COP Tj = +7°C	6.18	4.89
Cdh Tj = +7 °C	0.980	0.980
Pdh Tj = 12°C	5.60 kW	5.70 kW
COP Tj = 12°C	7.49	5.84
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	2.03	1.50
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.03	1.50
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	9101 kWh	11613 kWh
Pdh Tj = -15°C (if TOL	13.10	13.10
COP Tj = -15°C (if TOL	2.96	2.19
Cdh Tj = -15 °C	1.000	1.000

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	35 dB(A)	35 dB(A)
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	240 %	175 %
Prated	16.00 kW	16.00 kW
SCOP	6.08	4.45
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	16.00 kW	16.00 kW
COP Tj = +2°C	3.00	2.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	10.30 kW	10.30 kW
COP Tj = +7°C	5.37	4.13
Cdh Tj = +7 °C	0.990	0.990

Pdh Tj = 12°C	5.70 kW	5.60 kW
COP Tj = 12°C	7.67	5.25
Cdh Tj = +12 °C	0.980	0.980
Pdh Tj = Tbiv	16.00 kW	16.00 kW
COP Tj = Tbiv	3.00	2.42
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	16.00 kW	16.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.00	2.42
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	55 °C	55 °C
Poff	11 W	11 W
PTO	18 W	18 W
PSB	11 W	11 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	3517 kWh	4801 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	9.00 kW
SEER	4.80	7.62
Pdc Tj = 35°C	9.00 kW	9.00 kW
EER Tj = 35°C	3.61	5.26
Cdc Tj = 35 °C	1.000	1.000
Pdc Tj = 30°C	6.63 kW	7.45 kW
EER Tj = 30°C	4.40	7.05
Cdc Tj = 30 °C	1.000	1.000
Pdc Tj = 25°C	6.46 kW	7.28 kW
EER Tj = 25°C	5.17	8.74
Cdc Tj = 25 °C	0.990	0.990
Pdc Tj = 20°C	6.78 kW	7.15 kW
EER Tj = 20°C	6.12	10.10
Cdc Tj = 20 °C	0.990	0.990
Poff	11 W	11 W
PTO	7 W	7 W
PSB	11 W	11 W
PCK	0 W	0 W
Annual energy consumption Qce	657 kWh	414 kWh