Subtype Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD23	
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 Monobloc 9-12 kW T-CAP (J Series) + TD23
Registration number	011-1W0565
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	22.12.2022
Testing basis	European KEYMARK Scheme for Heat Pumps Rev. 10 (as of 2022-06)

Model WH-MXC09J3E5 + PAW-TD23B6E5	
Model name	WH-MXC09J3E5 + PAW-TD23B6E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	108 %
COP	2.52
Heating up time	0:52 h:min
Standby power input	60.0 W
Reference hot water temperature	50.4 °C
Mixed water at 40°C	246 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	9.00 kW	9.00 kW
El input	1.77 kW	2.92 kW
COP	5.08	3.08

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	9.00	
EER	3.18	

EN 12102-1 | Average Climate	Low temperature	Medium temperature

Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.00 kW	8.00 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.90 kW	4.90 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.40 kW	5.10 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.30 kW	6.10 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	10 W	10 W
PSB	9 W	9 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	3747 kWh	5208 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	
SEER	4.80	
Pdc Tj = 35°C	9.00 kW	
EER Tj = 35°C	3.18	
Pdc Tj = 30°C	6.63 kW	
EER Tj = 30°C	4.20	
Cdc Tj = 30 °C	0.9	

Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc Tj = 25 °C	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc Tj = 20 °C	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	656 kWh

Model WH-MXC09J3E8 + PAW-TD23B6E5	
Model name	WH-MXC09J3E8 + PAW-TD23B6E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
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 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	108 %
COP	2.52
Heating up time	0:52 h:min
Standby power input	60.0 W
Reference hot water temperature	50.4 °C
Mixed water at 40°C	246 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	9.00 kW	9.00 kW
El input	1.77 kW	2.92 kW
COP	5.08	3.08

EN 14511-2 | Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.83 kW	
Cooling capacity	9.00	
EER	3.18	

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature

Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.00 kW	8.00 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.90 kW	4.90 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.40 kW	5.10 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.30 kW	6.10 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	10 W	10 W
PSB	9 W	9 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	3747 kWh	5208 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	9.00 kW	
SEER	4.80	
Pdc Tj = 35°C	9.00 kW	
EER Tj = 35°C	3.18	
Pdc Tj = 30°C	6.63 kW	
EER Tj = 30°C	4.20	
Cdc Tj = 30 °C	0.9	

Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc Tj = 25 °C	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc Tj = 20 °C	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	656 kWh

Model WH-MXC12J6E5 + PAW-TD23B6E5	
Model name	WH-MXC12J6E5 + PAW-TD23B6E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
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	108 %
COP	2.52
Heating up time	0:52 h:min
Standby power input	60.0 W
Reference hot water temperature	50.4 °C
Mixed water at 40°C	246 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	12.00 kW	12.00 kW
El input	2.50 kW	3.94 kW
COP	4.80	3.05

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	4.14 kW	
Cooling capacity	12.00	
EER	2.90	

EN 12102-1 | Average Climate	Low temperature	Medium temperature

Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.00 kW	8.00 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.90 kW	4.90 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.40 kW	5.10 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.30 kW	6.10 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	10 W	10 W
PSB	9 W	9 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	3747 kWh	5208 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.00 kW	
SEER	4.79	
Pdc Tj = 35°C	12.00 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	8.84 kW	
EER Tj = 30°C	4.02	
Cdc Tj = 30 °C	0.9	

Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc Tj = 25 °C	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc Tj = 20 °C	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	878 kWh

Model WH-MXC12J9E8 + PAW-TD23B6E5	
Model name	WH-MXC12J9E8 + PAW-TD23B6E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate zone (for heating)	n/a
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 16147 | Average Climate	
Declared load profile	L
Efficiency ηDHW	108 %
COP	2.52
Heating up time	0:52 h:min
Standby power input	60.0 W
Reference hot water temperature	50.4 °C
Mixed water at 40°C	246 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	12.00 kW	12.00 kW
El input	2.50 kW	3.94 kW
COP	4.80	3.05

EN 14511-2 | Cooling	+7°C/+12°C	+18°C/+23°C
El input	4.14 kW	
Cooling capacity	12.00	
EER	2.90	

EN 12102-1 | Average Climate	Low temperature	Medium temperature

Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.00 kW	8.00 kW
COP Tj = -7°C	3.04	2.33
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	4.90 kW	4.90 kW
COP Tj = +2°C	4.93	3.46
Cdh Tj = +2 °C	0.990	0.990
Pdh Tj = +7°C	5.40 kW	5.10 kW
COP Tj = +7°C	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.30 kW	6.10 kW
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
PTO	10 W	10 W
PSB	9 W	9 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	3747 kWh	5208 kWh

EN 14825 | Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.00 kW	
SEER	4.79	
Pdc Tj = 35°C	12.00 kW	
EER Tj = 35°C	2.90	
Pdc Tj = 30°C	8.84 kW	
EER Tj = 30°C	4.02	
Cdc Tj = 30 °C	0.9	

Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc Tj = 25 °C	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc Tj = 20 °C	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	878 kWh