

**Subtype Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD20**

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) + TD20
Registration number	011-1W0463
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.6 kg
Certification Date	10.11.2021
Testing basis	HP KEYMARK certification scheme rules rev. 8

**Model WH-MXC09J3E5**

Model name	WH-MXC09J3E5
Application	Heating (medium 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 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	

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Annual energy consumption Qce

656 kWh

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**Model WH-MXC12J6E5**

Model name	WH-MXC12J6E5
Application	Heating (medium 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 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	

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Annual energy consumption Qce

878 kWh

**Model WH-MXC09J3E5 + PAW-TD20C1E5**

Model name	WH-MXC09J3E5 + PAW-TD20C1E5
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 $\eta_{DHW}$	96 %
COP	2.26
Heating up time	0:54 h:min
Standby power input	50.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	256 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
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Sound power level outdoor	65 dB(A)	65 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
P <sub>rated</sub>	9.00 kW	9.00 kW
SCOP	4.96	3.57
T <sub>biv</sub>	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	8.00 kW	8.00 kW
COP T <sub>j</sub> = -7°C	3.04	2.33
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.90 kW	4.90 kW
COP T <sub>j</sub> = +2°C	4.93	3.46
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.40 kW	5.10 kW
COP T <sub>j</sub> = +7°C	6.26	4.48
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12°C	6.30 kW	6.10 kW
COP T <sub>j</sub> = 12°C	8.19	6.02
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	2.04
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.90	2.04
WTOL	55 °C	55 °C
P <sub>off</sub>	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 Q <sub>he</sub>	3747 kWh	5208 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	9.00 kW	
SEER	4.80	
P <sub>dc</sub> T <sub>j</sub> = 35°C	9.00 kW	
EER T <sub>j</sub> = 35°C	3.18	
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.63 kW	
EER T <sub>j</sub> = 30°C	4.20	
C <sub>dc</sub> T <sub>j</sub> = 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-TD20C1E5**

Model name	WH-MXC12J6E5 + PAW-TD20C1E5
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	96 %
COP	2.26
Heating up time	0:54 h:min
Standby power input	50.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	256 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
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Sound power level outdoor	65 dB(A)	65 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
P <sub>rated</sub>	9.00 kW	9.00 kW
SCOP	4.96	3.57
T <sub>biv</sub>	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	8.00 kW	8.00 kW
COP T <sub>j</sub> = -7°C	3.04	2.33
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.90 kW	4.90 kW
COP T <sub>j</sub> = +2°C	4.93	3.46
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.40 kW	5.10 kW
COP T <sub>j</sub> = +7°C	6.26	4.48
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12°C	6.30 kW	6.10 kW
COP T <sub>j</sub> = 12°C	8.19	6.02
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	2.04
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.90	2.04
WTOL	55 °C	55 °C
P <sub>off</sub>	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 Q <sub>he</sub>	3747 kWh	5208 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.00 kW	
SEER	4.79	
P <sub>dc</sub> T <sub>j</sub> = 35°C	12.00 kW	
EER T <sub>j</sub> = 35°C	2.90	
P <sub>dc</sub> T <sub>j</sub> = 30°C	8.84 kW	
EER T <sub>j</sub> = 30°C	4.02	
C <sub>dc</sub> T <sub>j</sub> = 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-MXC09J3E8**

Model name	WH-MXC09J3E8
Application	Heating (medium 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 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	

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Annual energy consumption Qce

656 kWh

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**Model WH-MXC12J9E8**

Model name	WH-MXC12J9E8
Application	Heating (medium 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 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	

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Annual energy consumption Qce

878 kWh

**Model WH-MXC09J3E8 + PAW-TD20C1E5**

Model name	WH-MXC09J3E8 + PAW-TD20C1E5
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	96 %
COP	2.26
Heating up time	0:54 h:min
Standby power input	50.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	256 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
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Sound power level outdoor	65 dB(A)	65 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
P <sub>rated</sub>	9.00 kW	9.00 kW
SCOP	4.96	3.57
T <sub>biv</sub>	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	8.00 kW	8.00 kW
COP T <sub>j</sub> = -7°C	3.04	2.33
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.90 kW	4.90 kW
COP T <sub>j</sub> = +2°C	4.93	3.46
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.40 kW	5.10 kW
COP T <sub>j</sub> = +7°C	6.26	4.48
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12°C	6.30 kW	6.10 kW
COP T <sub>j</sub> = 12°C	8.19	6.02
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	2.04
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.90	2.04
WTOL	55 °C	55 °C
P <sub>off</sub>	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 Q <sub>he</sub>	3747 kWh	5208 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	9.00 kW	
SEER	4.80	
P <sub>dc</sub> T <sub>j</sub> = 35°C	9.00 kW	
EER T <sub>j</sub> = 35°C	3.18	
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.63 kW	
EER T <sub>j</sub> = 30°C	4.20	
C <sub>dc</sub> T <sub>j</sub> = 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-MXC12J9E8 + PAW-TD20C1E5**

Model name	WH-MXC12J9E8 + PAW-TD20C1E5
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	n/a
Off-peak product	n/a

**Outdoor Air/Water****EN 16147 | Average Climate**

Declared load profile	L
Efficiency ηDHW	96 %
COP	2.26
Heating up time	0:54 h:min
Standby power input	50.0 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	256 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
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Sound power level outdoor	65 dB(A)	65 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
P <sub>rated</sub>	9.00 kW	9.00 kW
SCOP	4.96	3.57
T <sub>biv</sub>	-10 °C	-10 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	8.00 kW	8.00 kW
COP T <sub>j</sub> = -7°C	3.04	2.33
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.000	1.000
P <sub>dh</sub> T <sub>j</sub> = +2°C	4.90 kW	4.90 kW
COP T <sub>j</sub> = +2°C	4.93	3.46
C <sub>dh</sub> T <sub>j</sub> = +2 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = +7°C	5.40 kW	5.10 kW
COP T <sub>j</sub> = +7°C	6.26	4.48
C <sub>dh</sub> T <sub>j</sub> = +7 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = 12°C	6.30 kW	6.10 kW
COP T <sub>j</sub> = 12°C	8.19	6.02
C <sub>dh</sub> T <sub>j</sub> = +12 °C	0.990	0.990
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	2.04
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	9.00 kW	9.00 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.90	2.04
WTOL	55 °C	55 °C
P <sub>off</sub>	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 Q <sub>he</sub>	3747 kWh	5208 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.00 kW	
SEER	4.79	
P <sub>dc</sub> T <sub>j</sub> = 35°C	12.00 kW	
EER T <sub>j</sub> = 35°C	2.90	
P <sub>dc</sub> T <sub>j</sub> = 30°C	8.84 kW	
EER T <sub>j</sub> = 30°C	4.02	
C <sub>dc</sub> T <sub>j</sub> = 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