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Summary of	Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD20	Reg. No.	011-1W0463
Certificate Holder			
Name	Panasonic Marketing Europe GmbH		
Address	Hagenauer Strasse 43, Wiesbaden	Zip	65203
City	Wiesbaden	Country	Germany
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD20		
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

### Configure model

Model name	WH-MXC09J3E5
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

### General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	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 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

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**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

**EN 14825**

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	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.60 kW
EER T <sub>j</sub> = 25°C	5.32
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.80 kW
EER T <sub>j</sub> = 20°C	6.16
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	656 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was generated by the HP KEYMARK database on 23 Jun 2022

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

## Model: WH-MXC12J6E5

Configure model	
Model name	WH-MXC12J6E5
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.14 kW
Cooling capacity	12.00
EER	2.90

**EN 14825**



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	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	5.68 kW
EER T <sub>j</sub> = 25°C	5.40
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.90 kW
EER T <sub>j</sub> = 20°C	6.30
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	878 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

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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

# Model: WH-MXC09J3E5 + PAW-TD20C1E5

Configure model	
Model name	WH-MXC09J3E5 + PAW-TD20C1E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.60 kW
EER T <sub>j</sub> = 25°C	5.32
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.80 kW
EER T <sub>j</sub> = 20°C	6.16
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	656 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was generated by the HP KEYMARK database on 23 Jun 2022

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

## Domestic Hot Water (DHW)

### Average Climate



<b>EN 16147</b>	
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

# Model: WH-MXC12J6E5 + PAW-TD20C1E5

Configure model	
Model name	WH-MXC12J6E5 + PAW-TD20C1E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.14 kW
Cooling capacity	12.00
EER	2.90

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	5.68 kW
EER T <sub>j</sub> = 25°C	5.40
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.90 kW
EER T <sub>j</sub> = 20°C	6.30
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	878 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was generated by the HP KEYMARK database on 23 Jun 2022

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
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

## Model: WH-MXC09J3E8

### Configure model

Model name	WH-MXC09J3E8
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

### General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	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 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling



**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

**EN 14825**

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	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.60 kW
EER T <sub>j</sub> = 25°C	5.32
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.80 kW
EER T <sub>j</sub> = 20°C	6.16
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	656 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

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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

## Model: WH-MXC12J9E8

Configure model	
Model name	WH-MXC12J9E8
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.14 kW
Cooling capacity	12.00
EER	2.90

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	12.00 kW
SEER	4.79
P <sub>dc</sub> T <sub>j</sub> = 35°C	12.00 kW
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EER T <sub>j</sub> = 30°C	4.02
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	5.68 kW
EER T <sub>j</sub> = 25°C	5.40
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.90 kW
EER T <sub>j</sub> = 20°C	6.30
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	878 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	195 %	140 %
Prated	9.00 kW	9.00 kW
SCOP	4.96	3.57
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
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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



This information was generated by the HP KEYMARK database on 23 Jun 2022

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

# Model: WH-MXC09J3E8 + PAW-TD20C1E5

## Configure model

Model name	WH-MXC09J3E8 + PAW-TD20C1E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

## General Data

Power supply	3x400V 50Hz
--------------	-------------

## Heating

### EN 14511-2

	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 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.60 kW
EER T <sub>j</sub> = 25°C	5.32
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.80 kW
EER T <sub>j</sub> = 20°C	6.16
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	656 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was generated by the HP KEYMARK database on 23 Jun 2022

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
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

# Model: WH-MXC12J9E8 + PAW-TD20C1E5

Configure model	
Model name	WH-MXC12J9E8 + PAW-TD20C1E5
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	n/a

## Heating

EN 14511-2		
	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 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

## Cooling



**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.14 kW
Cooling capacity	12.00
EER	2.90

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
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>	0.9
P <sub>dc</sub> T <sub>j</sub> = 25°C	5.68 kW
EER T <sub>j</sub> = 25°C	5.40
C <sub>dc</sub>	0.9
P <sub>dc</sub> T <sub>j</sub> = 20°C	4.90 kW
EER T <sub>j</sub> = 20°C	6.30
C <sub>dc</sub>	0.9
P <sub>off</sub>	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	878 kWh

## Average Climate

This information was generated by the HP KEYMARK database on 23 Jun 2022

### EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	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

This information was generated by the HP KEYMARK database on 23 Jun 2022

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

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
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