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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	ng 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	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.77 kW	2.92 kW
СОР	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	
	+7°C/+12°C
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	656 kWh

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
РТО	10 W	10 W
PSB	9 W	9 W
PCK	o w	o 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	
СОР	4.80	3.05	

EN 14511-4	
Shutting off the heat transfer medium flow	naccod
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		
+7°C/+12°C		
El input	4.14 kW	
Cooling capacity	12.00	
EER	2.90	

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	878 kWh



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
$COP Tj = +7^{\circ}C$	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
РТО	10 W	10 W
PSB	9 W	9 W
PCK	o w	o 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	

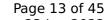
General Data		
Power supply 1x230V 50Hz		

### Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	9.00 kW	
El input	1.77 kW	2.92 kW	
СОР	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 pass	

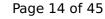
# Cooling





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

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	656 kWh



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
$COP Tj = +7^{\circ}C$	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
РТО	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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	96 %
СОР	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 I

# 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	

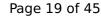
General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.50 kW	3.94 kW
СОР	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	

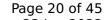
# Cooling





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

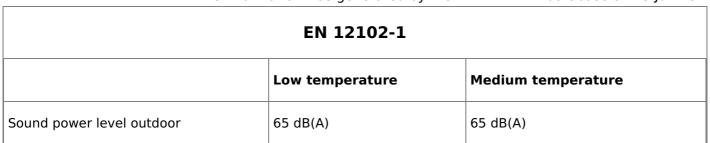
#### EN 14825





This information was generated by the Hir Ki	+7°C/+12°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	0.9
Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	878 kWh





CEN heat pump

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
РТО	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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	96 %
СОР	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 I

# 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	

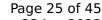
General Data		
Power supply 3x400V 50Hz		

## Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	9.00 kW	9.00 kW
El input	1.77 kW	2.92 kW
СОР	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

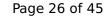
# Cooling





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

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc	0.9
Poff	9 W
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	656 kWh



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
РТО	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		

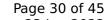
General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.00 kW	12.00 kW
El input	2.50 kW	3.94 kW
СОР	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

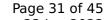
# Cooling





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

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	878 kWh



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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### 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
РТО	10 W	10 W
PSB	9 W	9 W
PCK	o 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		

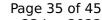
General Data		
Power supply	3x400V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	9.00 kW
El input	1.77 kW	2.92 kW
СОР	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

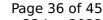
# Cooling





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

#### EN 14825





	+7°C/+12°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	0.9
Pdc Tj = 25°C	4.60 kW
EER Tj = 25°C	5.32
Cdc	0.9
Pdc Tj = 20°C	4.80 kW
EER Tj = 20°C	6.16
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	656 kWh



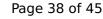
EN 12102-1

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
$COP Tj = +7^{\circ}C$	6.26	4.48
Cdh Tj = +7 °C	0.990	0.990
Pdh Tj = 12°C	6.30 kW	6.10 kW

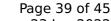
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		<u> </u>
COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
РТО	10 W	10 W
PSB	9 W	9 W
PCK	o w	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	96 %	
СОР	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 I	



# 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
СОР	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	
	+7°C/+12°C
El input	4.14 kW
Cooling capacity	12.00
EER	2.90

#### EN 14825





This information was generated by the fir Ke	+7°C/+12°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	0.9
Pdc Tj = 25°C	5.68 kW
EER Tj = 25°C	5.40
Cdc	0.9
Pdc Tj = 20°C	4.90 kW
EER Tj = 20°C	6.30
Cdc	0.9
Poff	9 W
РТО	1 W
PSB	9 W
PCK	o w
Annual energy consumption Qce	878 kWh



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	
$COP Tj = +7^{\circ}C$	6.26	4.48	
Cdh Tj = +7 °C	0.990	0.990	
Pdh Tj = 12°C	6.30 kW	6.10 kW	

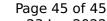
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COP Tj = 12°C	8.19	6.02
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = Tbiv	2.90	2.04
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
WTOL	55 °C	55 °C
Poff	9 W	9 W
РТО	10 W	10 W
PSB	9 W	9 W
PCK	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	96 %	
СОР	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 I	