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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	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	

### Heating

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

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 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





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			
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	COP Tj = 12°C	8.19	6.02
COP Tj = Tbiv       2.90       2.04         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	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	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
PTO  10 W  10 W  PSB  9 W  9 W  PCK  0 W  Supplementary Heater: Type of energy input  Electricity  Electricity  Supplementary Heater: PSUP  0.00 kW	WTOL	55 °C	55 °C
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	Poff	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	РТО	10 W	10 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	9 W	9 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	РСК	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3747 kWh 5208 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	3747 kWh	5208 kWh

## 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	

# **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	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





EN 12102-1		
Low temperature Medium temperature		
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	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			
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	COP Tj = 12°C	8.19	6.02
COP Tj = Tbiv       2.90       2.04         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	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	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
PTO  10 W  10 W  PSB  9 W  9 W  PCK  0 W  Supplementary Heater: Type of energy input  Electricity  Electricity  Supplementary Heater: PSUP  0.00 kW	WTOL	55 °C	55 °C
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	Poff	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	РТО	10 W	10 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	9 W	9 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	РСК	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3747 kWh 5208 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	3747 kWh	5208 kWh

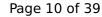
## Cooling

#### EN 14825





This information was generated by the Till 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	0 W
Annual energy consumption Qce	878 kWh





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



# 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

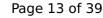
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test passed		

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 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





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

# 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	
РСК	o w	
Annual energy consumption Qce	656 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

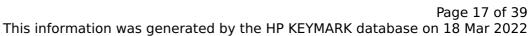
Configure model		
Model name	WH-MXC12J6E5 + PAW-TD20C1E5	
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

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	

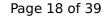
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

CEN heat pump KEYMARK

EN 14825		
	Low temperature	Medium temperature
η <sub>s</sub>	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
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

# Cooling

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

#### 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

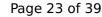
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

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 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





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			
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	COP Tj = 12°C	8.19	6.02
COP Tj = Tbiv       2.90       2.04         Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	Pdh Tj = Tbiv	9.00 kW	9.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	COP Tj = Tbiv	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	Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.00 kW	9.00 kW
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	COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.04
PTO  10 W  10 W  PSB  9 W  9 W  PCK  0 W  Supplementary Heater: Type of energy input  Electricity  Electricity  Supplementary Heater: PSUP  0.00 kW	WTOL	55 °C	55 °C
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	Poff	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	РТО	10 W	10 W
Supplementary Heater: Type of energy input Electricity Electricity  Supplementary Heater: PSUP 0.00 kW 0.00 kW	PSB	9 W	9 W
Supplementary Heater: PSUP 0.00 kW 0.00 kW	РСК	o w	o w
	Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe 3747 kWh 5208 kWh	Supplementary Heater: PSUP	0.00 kW	0.00 kW
	Annual energy consumption Qhe	3747 kWh	5208 kWh

## 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	
РСК	o w	
Annual energy consumption Qce	656 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	



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





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

# Cooling

#### EN 14825





This information was generated by the Till 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	0 W
Annual energy consumption Qce	878 kWh





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



# 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

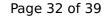
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
Low temperature Medium 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 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





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

# 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	
РСК	o w	
Annual energy consumption Qce	656 kWh	

### Domestic Hot Water (DHW)



EN 16147		
Declared lead wrefile		
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

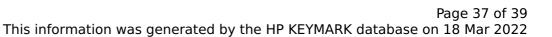
EN 14511-2			
Low temperature Medium temperature			
Heat output	12.00 kW	12.00 kW	
El input	2.50 kW	3.94 kW	
СОР	4.80	3.05	

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



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		

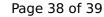




8.19	6.02
0.990	0.990
9.00 kW	9.00 kW
2.90	2.04
9.00 kW	9.00 kW
2.90	2.04
55 °C	55 °C
9 W	9 W
10 W	10 W
9 W	9 W
o w	o w
Electricity	Electricity
0.00 kW	0.00 kW
3747 kWh	5208 kWh
	0.990 9.00 kW 2.90 9.00 kW 2.90 55 °C 9 W 10 W 9 W Compared to the state of the sta

## Cooling

#### 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	0 W
Annual energy consumption Qce	878 kWh



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

#### 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	