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Summary of	Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD30	Reg. No.	011-1W0464
Certificate Holder			
Name	Panasonic Marketing Europe GmbH		
Address	Hagenauer Strasse 43, Wiesbaden	Zip	65203
City	Wiesbaden	Viesbaden Country Germany	
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD30		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.6 kg		
Certification Date	10.11.2021		
Testing basis	basis HP KEYMARK certification scheme rules rev. 8		

Model: WH-MXC09J3E5 + PAW-TD30C1E5-HI

Configure model		
Model name WH-MXC09J3E5 + PAW-TD30C1E5-HI		
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	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
η_{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			
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

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	XL	XL
Efficiency ηDHW	128 %	128 %
COP	3.07	3.07
Heating up time	1:05 h:min	1:05 h:min
Standby power input	50.0 W	50.0 W
Reference hot water temperature	52.0 °C	52.0 °C
Mixed water at 40°C	384 I	384 I



Model: WH-MXC12J6E5 + PAW-TD30C1E5-HI

Configure model		
Model name	WH-MXC12J6E5 + PAW-TD30C1E5-HI	
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

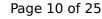
Cooling





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

EN 14825





	+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
PTO	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)

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EN 14825		
	Low temperature	Medium temperature
η_{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 = $+2^{\circ}$ 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 = $+7^{\circ}$ 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	XL	
Efficiency ηDHW	128 %	
СОР	3.07	
Heating up time	1:05 h:min	
Standby power input	50.0 W	
Reference hot water temperature	52.0 °C	
Mixed water at 40°C	384	



Model: WH-MXC09J3E8 + PAW-TD30C1E5-HI

Configure model		
Model name	WH-MXC09J3E8 + PAW-TD30C1E5-HI	
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

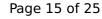
General Data			
Power supply 3x400V 50Hz			

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

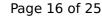
Cooling





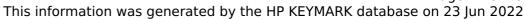
EN 14511-2	
+7°C/+12°C	
El input	2.83 kW
Cooling capacity	9.00
EER	3.18

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
PTO	1 W
PSB	9 W
PCK	0 W
Annual energy consumption Qce	656 kWh

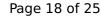




EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825		
	Low temperature	Medium temperature
η _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	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	XL	XL
Efficiency ηDHW	128 %	128 %
СОР	3.07	3.07
Heating up time	1:05 h:min	1:05 h:min
Standby power input	50.0 W	50.0 W
Reference hot water temperature	52.0 °C	52.0 °C
Mixed water at 40°C	384	384 I



Model: WH-MXC12J9E8 + PAW-TD30C1E5-HI

Configure model		
Model name	WH-MXC12J9E8 + PAW-TD30C1E5-HI	
Application	Heating + DHW + low temp	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

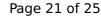
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	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

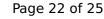
Cooling





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
PTO	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	
η_{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	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	XL	
Efficiency ηDHW	128 %	
СОР	3.07	
Heating up time	1:05 h:min	
Standby power input	50.0 W	
Reference hot water temperature	52.0 °C	
Mixed water at 40°C	384	