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Summary of	Aquarea Split 16 kW T-CAP (H Series)	Reg. No.	011-1W0510
Certificate Holder			
Name	Panasonic Marketing Europe GmbH	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 Split 16 kW T-CAP (H Series)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	2.9 kg		
Certification Date	08.12.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 9		

## Model: WH-ADC0916H9E8 / WH-UX16HE8

Configure model		
Model name WH-ADC0916H9E8 / WH-UX16HE8		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply 3x400V 50Hz		

#### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
СОР	4.28	2.71

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 indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990





Pdh Tj = 12°C	8.90 kW	8.50 kW
COP Tj = 12°C	6.88	5.86
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.90 kW	15.80 kW
COP Tj = Tbiv	2.63	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.90 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	33 W	33 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.20 kW
Annual energy consumption Qhe	8107 kWh	10330 kWh

Domestic Hot Water (DHW)



EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	

# Model: WH-ADC0916H9E8AN / WH-UX16HE8

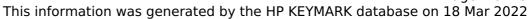
Configure model		
Model name	WH-ADC0916H9E8AN / WH-UX16HE8	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional) n/a		

General Data		
Power supply 3x400V 50Hz		

#### Heating

EN 14511-2		
Low temperature Medium temperature		
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
СОР	4.28	2.71

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 indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	67 dB(A)	67 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990





Pdh Tj = 12°C	8.90 kW	8.50 kW
COP Tj = 12°C	6.88	5.86
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.90 kW	15.80 kW
COP Tj = Tbiv	2.63	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.90 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	33 W	33 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.20 kW
Annual energy consumption Qhe	8107 kWh	10330 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	L
Efficiency ηDHW	91 %
СОР	2.27
Heating up time	0:44 h:min
Standby power input	41.0 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	253 I



# Model: WH-ADC0916H9E8 / WH-UQ16HE8

Configure model		
Model name	WH-ADC0916H9E8 / WH-UQ16HE8	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data		
Power supply	3x400V 50Hz	

#### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
СОР	4.28	2.71

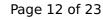
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

CEN heat pump KEYMARK

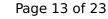
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990
	<u>'</u>	





8.90 kW	8.50 kW
6.88	5.86
0.990	0.990
15.90 kW	15.80 kW
2.63	1.83
15.90 kW	15.80 kW
2.63	1.83
0.900	0.900
55 °C	55 °C
3 W	3 W
12 W	12 W
12 W	12 W
33 W	33 W
Electricity	Electricity
0.10 kW	0.20 kW
8107 kWh	10330 kWh
	6.88  0.990  15.90 kW  2.63  15.90 kW  2.63  0.900  55 °C  3 W  12 W  12 W  33 W  Electricity  0.10 kW

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



# Model: WH-ADC0916H9E8AN / WH-UQ16HE8

Configure model		
Model name WH-ADC0916H9E8AN / WH-UQ16HE8		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	n/a	

General Data			
Power supply 3x400V 50Hz			

#### Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
СОР	4.28	2.71

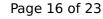
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test passed	
Starting and operating test	passed





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

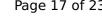
	EN 14825	
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990





8.90 kW	8.50 kW
6.88	5.86
0.990	0.990
15.90 kW	15.80 kW
2.63	1.83
15.90 kW	15.80 kW
2.63	1.83
0.900	0.900
55 °C	55 °C
3 W	3 W
12 W	12 W
12 W	12 W
33 W	33 W
Electricity	Electricity
0.10 kW	0.20 kW
8107 kWh	10330 kWh
	6.88  0.990  15.90 kW  2.63  15.90 kW  2.63  0.900  55 °C  3 W  12 W  12 W  33 W  Electricity  0.10 kW

Domestic Hot Water (DHW)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	91 %	
СОР	2.27	
Heating up time	0:44 h:min	
Standby power input	41.0 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	253 I	



## Model: WH-SXC16H9E8 / WH-UX16HE8

Configure model			
Model name WH-SXC16H9E8 / WH-UX16HE8			
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data			
Power supply 3x400V 50Hz			

#### Heating

EN 14511-2		
Low temperature		Medium temperature
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
СОР	4.28	2.71

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 indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	67 dB(A)	67 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990





This information was general		
Pdh Tj = 12°C	8.90 kW	8.50 kW
COP Tj = 12°C	6.88	5.86
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.90 kW	15.80 kW
COP Tj = Tbiv	2.63	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.90 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
РТО	12 W	12 W
PSB	12 W	12 W
PCK	33 W	33 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.20 kW
Annual energy consumption Qhe	8107 kWh	10330 kWh

# Model: WH-SQC16H9E8 / WH-UQ16HE8

Configure model			
Model name	WH-SQC16H9E8 / WH-UQ16HE8		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	n/a		

General Data		
Power supply	3x400V 50Hz	

#### Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	16.00 kW	16.00 kW	
El input	3.74 kW	5.91 kW	
СОР	4.28	2.71	

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	



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	46 dB(A)	46 dB(A)	
Sound power level outdoor	62 dB(A)	62 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	160 %	125 %
Prated	16.00 kW	16.00 kW
SCOP	4.08	3.20
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	14.20 kW	14.30 kW
COP Tj = -7°C	2.70	2.07
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	8.30 kW	8.20 kW
COP Tj = +2°C	3.65	2.93
Cdh Tj = +2 °C	0.990	1.000
Pdh Tj = +7°C	7.80 kW	7.20 kW
COP Tj = +7°C	5.96	4.44
Cdh Tj = +7 °C	0.990	0.990



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#### This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	8.90 kW	8.50 kW
COP Tj = 12°C	6.88	5.86
Cdh Tj = +12 °C	0.990	0.990
Pdh Tj = Tbiv	15.90 kW	15.80 kW
COP Tj = Tbiv	2.63	1.83
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	15.90 kW	15.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.63	1.83
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.900	0.900
WTOL	55 °C	55 °C
Poff	3 W	3 W
PTO	12 W	12 W
PSB	12 W	12 W
PCK	33 W	33 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.10 kW	0.20 kW
Annual energy consumption Qhe	8107 kWh	10330 kWh