Login

Summary of	Aquarea Split 16 kW T-CAP (H Series)	Reg. No.	011-1W0510
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 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		

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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
COP	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

Average Climate

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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
η_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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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	L
Efficiency ηDHW	91 %
COP	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 l

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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
COP	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

Average Climate

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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
η_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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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	L
Efficiency ηDHW	91 %
COP	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 l

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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
COP	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

Average Climate

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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
η_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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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	L
Efficiency ηDHW	91 %
COP	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 l

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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**
Heat output	16.00 kW	16.00 kW
El input	3.74 kW	5.91 kW
COP	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

Average Climate

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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**
η_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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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

Domestic Hot Water (DHW)

Average Climate

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EN 16147

Declared load profile	L
Efficiency ηDHW	91 %
COP	2.27
Heating up time	0:44 h:min
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Reference hot water temperature	52.5 °C
Mixed water at 40°C	253 l

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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
COP	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

Average Climate

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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**
η_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
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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

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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
COP	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

Average Climate

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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
η_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
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COP Tj = +7°C	5.96	4.44
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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

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