

## Subtype Aquarena Split 16 kW T-CAP (H Series)

Certificate Holder	Panasonic Marketing Europe GmbH
Address	Hagenauer Strasse 43, Wiesbaden
ZIP	65203
City	Wiesbaden
Country	DE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	Aquarena Split 16 kW T-CAP (H Series)
Registration number	011-1W0510
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

Model name	WH-ADC0916H9E8 / WH-UX16HE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	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

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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

## Model WH-ADC0916H9E8AN / WH-UX16HE8

Model name	WH-ADC0916H9E8AN / WH-UX16HE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	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

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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

## Model WH-ADC0916H9E8 / WH-UQ16HE8

Model name	WH-ADC0916H9E8 / WH-UQ16HE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	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

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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

## Model WH-ADC0916H9E8AN / WH-UQ16HE8

Model name	WH-ADC0916H9E8AN / WH-UQ16HE8
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	L
Efficiency $\eta_{DHW}$	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

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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

## Model WH-SXC16H9E8 / WH-UX16HE8

Model name	WH-SXC16H9E8 / WH-UX16HE8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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

## Model WH-SQC16H9E8 / WH-UQ16HE8

Model name	WH-SQC16H9E8 / WH-UQ16HE8
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

Power supply	3x400V 50Hz
Off-peak product	n/a

## Outdoor Air/Water

## EN 14511-4 | Heating

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

## EN 14511-2 | Heating

	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 12102-1 | Average Climate

	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 | Average Climate

	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
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