

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 η_{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 |
|----------|-----------------|--------------------|
| 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 |
| 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 η_{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 |
|----------|-----------------|--------------------|
| 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 |
| 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 η_{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 |
|----------|-----------------|--------------------|
| 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 |
| 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 η_{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 |
|----------|-----------------|--------------------|
| 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 |
| 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 |
|----------------|-----------------|--------------------|
| 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 |
| 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 |
|----------------|-----------------|--------------------|
| 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 |
| 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 |