

| Subtype Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD20 | | |
|--|---|--|
| 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 | Aquarea Monobloc 9-12 kW T-CAP (J Series) + TD20 | |
| Registration number | 011-1W0463 | |
| Heat Pump Type | Outdoor Air/Water | |
| Refrigerant | R32 | |
| Mass of Refrigerant | 1.6 kg | |
| Certification Date | 10.11.2021 | |
| Testing basis | HP KEYMARK certification scheme rules rev. 8 | |



| Model WH-MXC09J3E5 | | |
|---|--------------------------|--------------------------|
| Model name | WH-MXC09J3E5 | |
| Application | Heating (medium temp) | |
| Units | Outdoor | |
| Climate zone (for heating) | n/a | |
| Reversibility | Yes | |
| Cooling mode application (optional) | +7°C/12°C | |
| Any additional heat sources | n/a | |
| General data | | |
| Power supply | 1x230V 50Hz | |
| Off-peak product | n/a | |
| Outdoor Air/Water | | |
| EN 14511-4 Heating | | |
| Shutting off the heat transfer medium flow | | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |
| EN 12102-1 Average Climate | | |
| | Low temperature | Medium temperature |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |
| EN 14825 Average Climate | | |
| | Low temperature | Medium temperature |
| ης | 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 |
| $COP Tj = -7^{\circ}C$ | 3.04 | 2.33 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| $Pdh Tj = +2^{\circ}C$ | 4.90 kW | 4.90 kW |
| $COP Tj = +2^{\circ}C$ | 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 |
| | | |
| • | 0.990 | 0.990 |
| Pdh Tj = 12°C | 6.30 kW | 6.10 kW |
| Pdh Tj = 12°C COP Tj = 12°C | 6.30 kW 8.19 | 6.10 kW 6.02 |
| Pdh Tj = 12° C COP Tj = 12° C Cdh Tj = $+12^{\circ}$ C | 6.30 kW 8.19 0.990 | 6.10 kW 6.02 0.990 |
| Cdh Tj = $+7$ °C Pdh Tj = 12 °C COP Tj = 12 °C Cdh Tj = $+12$ °C Pdh Tj = Tbiv COP Tj = Tbiv | 6.30 kW 8.19 | 6.10 kW 6.02 |



| 9.00 kW | 9.00 kW |
|-------------|---|
| 2.90 | 2.04 |
| 55 °C | 55 °C |
| 9 W | 9 W |
| 10 W | 10 W |
| 9 W | 9 W |
| 0 W | 0 W |
| Electricity | Electricity |
| 0.00 kW | 0.00 kW |
| 3747 kWh | 5208 kWh |
| | 2.90 55 °C 9 W 10 W 9 W 0 W Electricity 0.00 kW |



| Model WH-MXC12J6E5 | | |
|---|-----------------------|--------------------|
| Model name | WH-MXC12J6E5 | |
| Application | Heating (medium temp) | |
| Units | Outdoor | |
| Climate zone (for heating) | n/a | |
| Reversibility | Yes | |
| Cooling mode application (optional) | +7°C/12°C | |
| Any additional heat sources | n/a | |
| General data | | |
| Power supply | 1x230V 50Hz | |
| Off-peak product | n/a | |
| Outdoor Air/Water | | |
| EN 14511-4 Heating | | |
| Shutting off the heat transfer medium flow | • | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |
| EN 12102-1 Average Climate | | |
| | Low temperature | Medium temperature |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |
| EN 14825 Average Climate | | |
| | Low temperature | Medium temperature |
| ης | 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 |
| $COP Tj = -7^{\circ}C$ | 3.04 | 2.33 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| $Pdh Tj = +2^{\circ}C$ | 4.90 kW | 4.90 kW |
| $COP Tj = +2^{\circ}C$ | 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 |
| COD T: 120C | 0.10 | C 02 |
| <u> </u> | 8.19 | 6.02 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| COP Tj = 12° C Cdh Tj = $+12^{\circ}$ C Pdh Tj = Tbiv COP Tj = Tbiv | | |



| 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 |



| Model WH-MXC09J3E5 + PAW-TD20C1E | 5 |
|--|-----------------------------|
| Model name | WH-MXC09J3E5 + PAW-TD20C1E5 |
| Application | Heating + DHW + low temp |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |
| General data | |
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |
| Outdoor Air/Water EN 16147 Average Climate | |
| Declared load profile | L |
| Efficiency ηDHW | 96 % |
| COP | 2.26 |
| Heating up time | 0:54 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 256 |



| Model WH-MXC12J6E5 + PAW-TD20C1E5 | |
|--|-----------------------------|
| Model name | WH-MXC12J6E5 + PAW-TD20C1E5 |
| Application | Heating + DHW + low temp |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |
| General data | |
| Power supply | 1x230V 50Hz |
| Off-peak product | n/a |
| Outdoor Air/Water EN 16147 Average Climate | |
| Declared load profile | L |
| Efficiency ηDHW | 96 % |
| COP | 2.26 |
| Heating up time | 0:54 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 256 l |



| Model WH-MXC09J3E8 | | |
|--|--|---|
| Model name | WH-MXC09J3E8 | |
| Application | Heating (medium temp) | |
| Units | Outdoor | |
| Climate zone (for heating) | n/a | |
| Reversibility | Yes | |
| Cooling mode application (optional) | +7°C/12°C | |
| 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 | • | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |
| EN 12102-1 Average Climate | | |
| | Low temperature | Medium temperature |
| Sound power level outdoor | 65 dB(A) | CE JD/A) |
| Souria power level outdoor | 05 UB(A) | 65 dB(A) |
| EN 14825 Average Climate | OS GB(A) | 05 dB(A) |
| | Low temperature | Medium temperature |
| | | |
| EN 14825 Average Climate | Low temperature | Medium temperature |
| RN 14825 Average Climate ηs Prated SCOP | Low temperature 195 % 9.00 kW 4.96 | Medium temperature 140 % 9.00 kW 3.57 |
| EN 14825 Average Climate ηs Prated SCOP Tbiv | Low temperature 195 % 9.00 kW 4.96 -10 °C | Medium temperature 140 % 9.00 kW 3.57 -10 °C |
| ης Prated SCOP Tbiv TOL | Low temperature 195 % 9.00 kW 4.96 -10 °C | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Pdh Tj = +2°C Pdh Tj = +2°C Pdh Tj = +7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C Cdh Tj = +7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 |
| ns Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Pdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 0.990 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 0.990 |
| ns Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C COP Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = +7°C Cdh Tj = +7°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 0.990 6.30 kW | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 0.990 6.10 kW |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = 12°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 0.990 6.30 kW 8.19 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 0.990 6.10 kW 6.02 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C COP Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C Cdh Tj = +2°C COP Tj = +7°C Cdh Tj = +7°C Cdh Tj = +7°C Cdh Tj = +7°C Cdh Tj = +12°C Cdh Tj = +12°C Cdh Tj = +12°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 0.990 6.30 kW 8.19 0.990 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 0.990 6.10 kW 6.02 0.990 |
| ης Prated SCOP Tbiv TOL Pdh Tj = -7°C COP Tj = -7°C Cdh Tj = -7°C Cdh Tj = +2°C Pdh Tj = +7°C COP Tj = +7°C COP Tj = +7°C COP Tj = 12°C | Low temperature 195 % 9.00 kW 4.96 -10 °C -10 °C 8.00 kW 3.04 1.000 4.90 kW 4.93 0.990 5.40 kW 6.26 0.990 6.30 kW 8.19 | Medium temperature 140 % 9.00 kW 3.57 -10 °C -10 °C 8.00 kW 2.33 1.000 4.90 kW 3.46 0.990 5.10 kW 4.48 0.990 6.10 kW 6.02 |



| 9.00 kW | 9.00 kW |
|-------------|---|
| 2.90 | 2.04 |
| 55 °C | 55 °C |
| 9 W | 9 W |
| 10 W | 10 W |
| 9 W | 9 W |
| 0 W | 0 W |
| Electricity | Electricity |
| 0.00 kW | 0.00 kW |
| 3747 kWh | 5208 kWh |
| | 2.90 55 °C 9 W 10 W 9 W 0 W Electricity 0.00 kW |



| Model WH-MXC12J9E8 | | |
|---|-----------------------|--------------------|
| Model name | WH-MXC12J9E8 | |
| Application | Heating (medium temp) | |
| Units | Outdoor | |
| Climate zone (for heating) | n/a | |
| Reversibility | Yes | |
| Cooling mode application (optional) | +7°C/12°C | |
| 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 | • | |
| Complete power supply failure | passed | |
| Defrost test | passed | |
| Starting and operating test | passed | |
| EN 12102-1 Average Climate | | |
| | Low temperature | Medium temperature |
| Sound power level outdoor | 65 dB(A) | 65 dB(A) |
| EN 14825 Average Climate | | |
| | Low temperature | Medium temperature |
| ης | 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 |
| $COP Tj = -7^{\circ}C$ | 3.04 | 2.33 |
| Cdh Tj = -7 °C | 1.000 | 1.000 |
| $Pdh Tj = +2^{\circ}C$ | 4.90 kW | 4.90 kW |
| $COP Tj = +2^{\circ}C$ | 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 |
| COP Tj = 12°C | | |
| | 8.19 | 6.02 |
| Cdh Tj = +12 °C | 0.990 | 0.990 |
| Cdh Tj = +12 °C $Pdh Tj = Tbiv$ $COP Tj = Tbiv$ | | |



| 9.00 kW | 9.00 kW |
|-------------|---|
| 2.90 | 2.04 |
| 55 °C | 55 °C |
| 9 W | 9 W |
| 10 W | 10 W |
| 9 W | 9 W |
| 0 W | 0 W |
| Electricity | Electricity |
| 0.00 kW | 0.00 kW |
| 3747 kWh | 5208 kWh |
| | 2.90 55 °C 9 W 10 W 9 W 0 W Electricity 0.00 kW |



| Model WH-MXC09J3E8 + PAW-TD20C1E | 5 |
|--|-----------------------------|
| Model name | WH-MXC09J3E8 + PAW-TD20C1E5 |
| Application | Heating + DHW + low temp |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| 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 ηDHW | 96 % |
| COP | 2.26 |
| Heating up time | 0:54 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 256 l |



| Model WH-MXC12J9E8 + PAW-TD20C1E5 | |
|-------------------------------------|-----------------------------|
| Model name | WH-MXC12J9E8 + PAW-TD20C1E5 |
| Application | Heating + DHW + low temp |
| Units | Outdoor |
| Climate zone (for heating) | n/a |
| Reversibility | Yes |
| Cooling mode application (optional) | +7°C/12°C |
| Any additional heat sources | n/a |
| General data | |
| Power supply | n/a |
| Off-peak product | n/a |
| Outdoor Air/Water | |
| EN 16147 Average Climate | |
| Declared load profile | L |
| Efficiency ηDHW | 96 % |
| COP | 2.26 |
| Heating up time | 0:54 h:min |
| Standby power input | 50.0 W |
| Reference hot water temperature | 52.0 °C |
| Mixed water at 40°C | 256 l |