Login

Summary of	Aquarea Monobloc 5 kW STD (J Series)	Reg. No.	011-1W0398
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 Monobloc 5 kW STD (J Series)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	1.3 kg		
Certification Date	06.08.2020		
Testing basis	HP KEYMARK certification scheme rules V8		

Model: WH-MDC05J3E5

Configure model	
Model name	WH-MDC05J3E5
Application	Heating (medium temp)
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.00 kW	5.00 kW
El input	0.99 kW	1.66 kW
COP	5.08	3.01

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	202 %	142 %
Prated	5.00 kW	5.00 kW
SCOP	5.12	3.63
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.40 kW	4.50 kW
COP Tj = -7°C	2.76	2.30
Cdh Tj = -7 °C	0.970	0.980
Pdh Tj = +2°C	2.60 kW	2.70 kW
COP Tj = +2°C	5.44	3.58
Cdh Tj = +2 °C	0.910	0.940
Pdh Tj = +7°C	3.00 kW	2.80 kW
COP Tj = +7°C	7.15	4.89
Cdh Tj = +7 °C	0.890	0.920
Pdh Tj = 12°C	3.50 kW	3.40 kW

COP Tj = 12°C	8.65	6.92
Cdh Tj = +12 °C	0.880	0.910
Pdh Tj = Tbiv	5.00 kW	5.00 kW
COP Tj = Tbiv	2.50	1.98
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.00 kW	5.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.50	1.98
WTOL	55 °C	55 °C
Poff	2 W	2 W
PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2018 kWh	2849 kWh

Cooling

EN 14825

	+7°C/+12°C
Pdesignc	5.00 kW
SEER	5.56
Pdc Tj = 35°C	5.00 kW
EER Tj = 35°C	3.17
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	4.59
Cdc	0.9
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.70
Cdc	0.9
Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.62
Cdc	0.9
Poff	8 W
PTO	0 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	315 kWh

EN 14511-2	
	+7°C/+12°C
El input	1.51 kW
Cooling capacity	5.00
EER	3.31

Model: WH-MDC05J3E5 + DGC200

Configure model	
Model name	WH-MDC05J3E5 + DGC200
Application	Heating + DHW + low temp
Units	Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	**Medium temperature**
Heat output	5.00 kW	5.00 kW
El input	0.99 kW	1.66 kW
COP	5.08	3.01

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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	Low temperature	**Medium temperature**
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EN 14825		
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PTO	44 W	44 W
PSB	10 W	10 W
PCK	10 W	10 W
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Supplementary Heater: PSUP	0.00 kW	0.00 kW
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EN 14825

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EER Tj = 35°C	3.17
Pdc Tj = 30°C	3.68 kW
EER Tj = 30°C	4.59
Cdc	0.9
Pdc Tj = 25°C	2.37 kW
EER Tj = 25°C	6.70
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Pdc Tj = 20°C	1.05 kW
EER Tj = 20°C	8.62
Cdc	0.9
Poff	8 W
PTO	0 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	315 kWh

EN 14511-2	
	+7°C/+12°C
El input	1.51 kW
Cooling capacity	5.00
EER	3.31

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	L
Efficiency ηDHW	125 %
COP	2.96
Heating up time	01:31 h:min
Standby power input	40.0 W
Reference hot water temperature	53.3 °C
Mixed water at 40°C	268 l