

Aquantia KHP-MO HT



KCTAQ-03
Standard

Technical documentation	Download
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KEYMARK



SMART GRID
READY



R-290
REFRIGERANT



DOMESTIC HOT
WATER



DC INVERTER
COMPRESSOR



WI-FI



MODBUS



ON/OFF
CONTACT



MODULAR

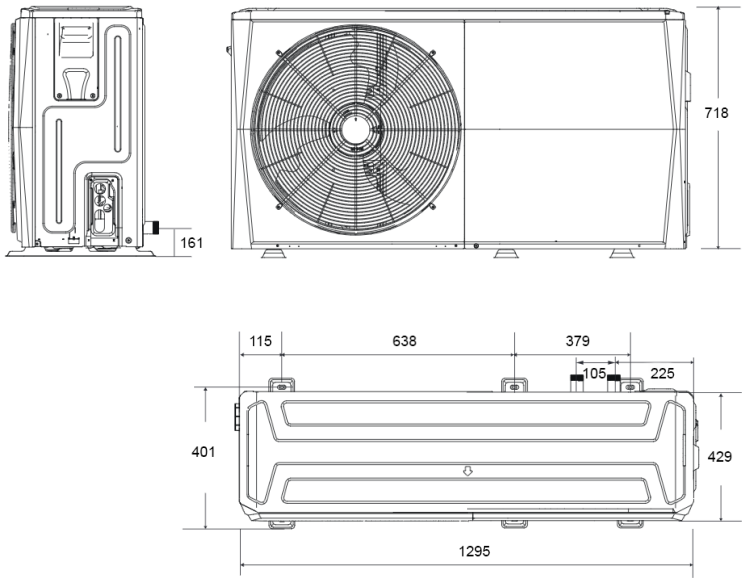
Model		KHP-MO 4 DVP	KHP-MO 6 DVP	KHP-MO 8 DVP	KHP-MO 10 DVP	KHP-MO 12 DVP
> Set						
Heating capacity / COP (A+7°C / W+35°C)	kW	4.5 / 5.15	6.2 / 4.9	8.4 / 5	10 / 4.7	12 / 4.8
Consumption (A+7°C / W+35°C)	W	874	1265	1680	2128	2500
Heating capacity / COP (A+7°C / W+55°C)	kW	4.6 / 3.2	6.2 / 3.1	7.8 / 3.2	9.5 / 3.05	12 / 3.1
Consumption (A+7°C / W+55°C)	W	1438	2000	2438	3115	3871
Heating capacity / COP (A-7°C / W+35°C)	kW	4.5 / 3.1	5.9 / 2.95	7 / 3	8 / 2.85	10 / 2.8
Consumption (A-7°C / W+35°C)	W	1452	2000	2333	2807	3571
Heating capacity / COP (A-7°C / W+55°C)	kW	4.7 / 2.2	5.2 / 2.15	6.9 / 2.15	7.4 / 2.1	10.4 / 2.15
Consumption (A-7°C / W+55°C)	W	2136	2419	3209	3524	4837
Cooling capacity / EER (A+35°C / W+18°C)	kW	4.5 / 5.5	6.5 / 5.1	8.3 / 5.15	10 / 4.75	12 / 4.5
Consumption (A+35°C / W+18°C)	W	818	1275	1612	2105	2667
Cooling capacity / EER (A+35°C / W+7°C)	kW	4.7 / 3.65	6.8 / 3.1	7.5 / 3.45	8.9 / 3.25	11.5 / 3.05
Consumption (A+35°C / W+7°C)	W	1288	2194	2174	2738	3770
Average heating climate (W+35°C / W+55°C). Energy class		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Average heating climate (W+35°C / W+55°C). η_{s}	%	204.8 / 149.7	193.5 / 149.7	200.7 / 148.7	180.6 / 139.9	182.4 / 141.9
Average heating climate (W+35°C / W+55°C). SCOP		5.2 / 3.82	4.91 / 3.82	5.09 / 3.79	4.59 / 3.57	4.64 / 3.62
Warm heating climate (W+35°C / W+55°C). η_{s}	%	235 / 170	242 / 179	259 / 184	281 / 188	232 / 174
Warm heating climate (W+35°C / W+55°C). SCOP		5.97 / 4.34	6.14 / 4.55	6.56 / 4.68	7.11 / 4.79	5.90 / 4.45
Cold heating climate (W+35°C / W+55°C). η_{s}	%	158 / 124	166 / 132	174 / 135	178 / 136	168 / 127
Cold heating climate (W+35°C / W+55°C). SCOP		4.03 / 3.18	4.24 / 3.38	4.44 / 3.46	4.54 / 3.49	4.13 / 3.26
Chilling efficiency (W+7°C / W+18°C). Keymark certification. $\eta_{s,c}$	%	231.4 / 322.6	209.8 / 263	206.2 / 251.4	201.8 / 263	204.2 / 267
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		5.86 / 8.14	5.32 / 6.65	5.23 / 6.36	5.12 / 6.65	5.18 / 6.75
Width / Height / Depth	mm	1295 / 718 / 429	1295 / 718 / 429	1385 / 865 / 526	1385 / 865 / 526	1385 / 865 / 526
Net weight	kg	90	90	117	117	135
Power supply	V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity	A	12	13.5	16	17.5	25
Circuit breaker	A	D20	D20	D20	D20	D20
Communication wiring	mm ²	2x1	2x1	2x1	2x1	2x1
Wiring to controller	mm ²	2x1,5	2x1,5	2x1,5	2x1,5	2x1,5
Sound pressure	dB(A)	48	46	44	56	52
Sound power	dB(A)	56	58	60	61	65
Type of refrigerant		R-290	R-290	R-290	R-290	R-290
CWP		3	3	3	3	3
Refrigerant charge	kg	0.7	0.7	1.1	1.1	1.25
t CO ₂ eq	tCO ₂	0.00	0.00	0.00	0.00	0.00
Minimum water volume	l	40	40	40	40	60
Nominal flow rate	m ³ /h	0.7	0.95	1.40	1.70	2.10
Electrical heater support	W	3000	3000	3000	3000	3000
Water pump pressure	mH ₂ O	9	9	9	9	9
Expansion vessel	l	8	8	8	8	8
Water pipe connections	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"

Aquantia KHP-MO HT

Model		KHP-MO 4 DVP	KHP-MO 6 DVP	KHP-MO 8 DVP	KHP-MO 10 DVP	KHP-MO 12 DVP
> Working range						
Outdoor ambient temperature for DHW min. / max.	°C	-25 / 46	-25 / 46	-25 / 46	-25 / 46	-25 / 46
Outdoor ambient temperature for heating min. / max.	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for cooling min. / max.	°C	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46
Leaving water temperature; min. / max. DHW	°C	10 / 70	10 / 70	10 / 70	10 / 70	10 / 70
Leaving water temperature; min. / max. heating	°C	12 / 75	12 / 75	12 / 75	12 / 75	12 / 75
Leaving water temperature; min. / max. cooling	°C	5 / 30	5 / 30	5 / 30	5 / 30	5 / 30

Model		KHP-MO 14 DVP	KHP-MO 16 DVP	KHP-MO 12 DTP	KHP-MO 14 DTP	KHP-MO 16 DTP
> Set						
Heating capacity / COP (A+7°C / W+35°C)	kW	14 / 4.5	15 / 4.4	12 / 4.8	14 / 4.5	15 / 4.4
Consumption (A+7 °C / W+35 °C)	W	3111	3409	2500	3111	3409
Heating capacity / COP (A+7°C / W+55°C)	kW	14 / 3	15 / 2.85	12 / 3.1	14 / 3	15 / 2.85
Consumption (A+7 °C / W+55 °C)	W	4667	5263	3871	4667	5263
Heating capacity / COP (A-7°C / W+35°C)	kW	11.5 / 2.7	12.7 / 2.5	10 / 2.8	11.5 / 2.7	12.7 / 2.5
Consumption (A-7 °C / W+35 °C)	W	4259	5080	3571	4259	5080
Heating capacity / COP (A-7°C / W+55°C)	kW	11.3 / 2.1	12.4 / 2.05	10.4 / 2.15	11.3 / 2.1	12.4 / 2.05
Consumption (A-7 °C / W+55 °C)	W	5381	6049	4837	5381	6049
Cooling capacity / EER (A+35°C / W+18°C)	kW	14 / 4.2	16 / 3.9	12 / 4.5	14 / 4.2	16 / 3.9
Consumption (A+35 °C / W+18 °C)	W	3333	4103	2667	3333	4103
Cooling capacity / EER (A+35°C / W+7°C)	kW	12.7 / 2.9	14 / 2.75	11.5 / 3.05	12.7 / 2.9	14 / 2.75
Consumption (A+35 °C / W+7 °C)	W	4379	5091	3770	4379	5091
Average heating climate (W+35°C / W+55°C). Energy class		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Average heating climate (W+35°C / W+55°C). η _s	%	180.6 / 139.9	184 / 141.8	184 / 141.8	182.4 / 141.9	199.8 / 149.8
Average heating climate (W+35°C / W+55°C). SCOP		4.59 / 3.57	4.68 / 3.62	4.68 / 3.62	4.64 / 3.62	5.07 / 3.82
Warm heating climate (W+35°C / W+55°C). η _s	%	231 / 174	238 / 181	232 / 174	231 / 174	238 / 181
Warm heating climate (W+35°C / W+55°C). SCOP		5.85 / 4.43	6.05 / 4.62	5.90 / 4.45	5.85 / 4.43	6.05 / 4.62
Cold heating climate (W+35°C / W+55°C). η _s	%	162 / 126	160 / 128	162 / 127	162 / 126	160 / 128
Cold heating climate (W+35°C / W+55°C). SCOP		4.13 / 3.23	4.08 / 3.29	4.13 / 3.26	4.13 / 3.23	4.08 / 3.29
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	201,8 / 263	204,6 / 253,8	204,6 / 253,8	204,2 / 267	219 / 323,4
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		5.12 / 6.65	5.19 / 6.42	5.19 / 6.42	5.18 / 6.75	5.55 / 8.16
Width / Height / Depth	mm	1385 / 865 / 526	1385 / 865 / 526	1385 / 865 / 526	1385 / 865 / 526	1385 / 865 / 526
Net weight	kg	135	135	137	137	137
Power supply	V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity	A	26.5	28	8.5	9	9.5
Circuit breaker	A	D32	D32	D20	D20	D20
Communication wiring	mm ²	2x1	2x1	2x1	2x1	2x1
Wiring to controller	mm ²	2x1,5	2x1,5	2x1,5	2x1,5	2x1,5
Sound pressure	dB(A)	56	51	51	52	49
Sound power	dB(A)	65	69	65	65	69
Type of refrigerant		R-290	R-290	R-290	R-290	R-290
GWP		3	3	3	3	3
Refrigerant charge	kg	1.25	1.25	1.25	1.25	1.25
t CO ₂ eq	tCO ₂	0.00	0.00	0.00	0.00	0.00
Minimum water volume	l	60	60	60	60	60
Nominal flow rate	m ³ /h	2.50	2.95	2.10	2.50	2.95
Electrical heater support	W	3000	3000	Adjustable 9000/6000/3000	Adjustable 9000/6000/3000	Adjustable 9000/6000/3000
Water pump pressure	mH ₂ O	9	9	9	9	9
Expansion vessel	l	8	8	8	8	8
Water pipe connections	inch	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"
> Working range						
Outdoor ambient temperature for DHW min. / max.	°C	-25 / 46	-25 / 46	-25 / 46	-25 / 46	-25 / 46
Outdoor ambient temperature for heating min. / max.	°C	-25 / 35	-25 / 35	-25 / 35	-25 / 35	-25 / 35
Outdoor ambient temperature for cooling min. / max.	°C	-5 / 46	-5 / 46	-5 / 46	-5 / 46	-5 / 46
Leaving water temperature; min. / max. DHW	°C	10 / 70	10 / 70	10 / 70	10 / 70	10 / 70
Leaving water temperature; min. / max. heating	°C	12 / 75	12 / 75	12 / 75	12 / 75	12 / 75
Leaving water temperature; min. / max. cooling	°C	5 / 30	5 / 30	5 / 30	5 / 30	5 / 30

Data according to EN16147/2017; EU No:811/2013; EN14511/2018; EN14825/2018; EU No:811/2013



Model	KHP-MO 4 DVP	KHP-MO 6 DVP	KHP-MO 8 DVP
Width	1295 mm	1295 mm	1385 mm
Height	718 mm	718 mm	865 mm
Depth	429 mm	429 mm	526 mm

Model	KHP-MO 10 DVP	KHP-MO 12 DVP	KHP-MO 14 DVP	KHP-MO 16 DVP
Width	1385 mm	1385 mm	1385 mm	1385 mm
Height	865 mm	865 mm	865 mm	865 mm
Depth	526 mm	526 mm	526 mm	526 mm

Model	KHP-MO 12 DTP	KHP-MO 14 DTP	KHP-MO 16 DTP
Width	1385 mm	1385 mm	1385 mm
Height	865 mm	865 mm	865 mm
Depth	526 mm	526 mm	526 mm