

Aquantia KHPS-MO



KCTA-Q02
Included as standard,
with built-in Modbus
gateway



KEYMARK


 SMART GRID
READY

 R-32
REFRIGERANT

 DOMESTIC HOT
WATER

 COOLING AND
HEATING

 COMPATIBLE
WITH AIRZONE


WI-FI



MODBUS



MODULAR

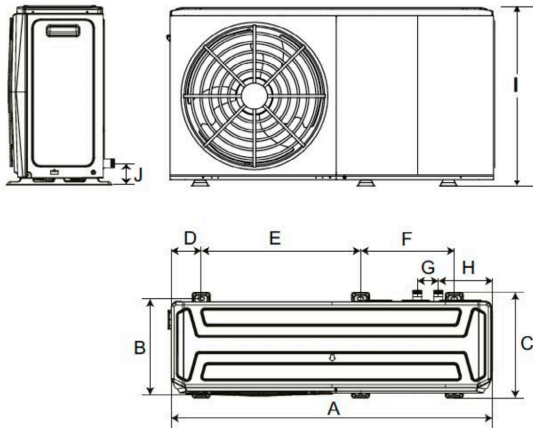
Technical documentation	Download
Technical Manual	PDF
User Manual	PDF
Controller Manual	PDF
Declaration of Conformity	PDF
ErP	PDF
Installation diagrams	PDF

Set model		KHPS-MO 4 PRO	KHPS-MO 6 PRO	KHPS-MO 8 PRO	KHPS-MO 10 PRO	KHPS-MO 12 PRO
> Set						
Heating capacity / COP (A+7°C / W+35°C)	kW	4,2 / 5,1	6,35 / 4,95	8,4 / 5,15	10 / 4,95	12,1 / 4,95
Consumption (A+7 °C / W+35 °C)	W	824	1283	1631	2020	7698
Heating capacity / COP (A+7°C / W+55°C)	kW	4,4 / 2,95	6 / 2,95	7,5 / 3,18	9,5 / 3,1	11,9 / 3,05
Consumption (A+7 °C / W+55 °C)	W	1492	2034	2358	3065	13043
Heating capacity / COP (A-7°C / W+35°C)	kW	4,7 / 3,1	6 / 3	7 / 3,2	8 / 3,05	10 / 3
Consumption (A-7 °C / W+35 °C)	W	1516	2000	2188	2623	9388
Heating capacity / COP (A-7°C / W+55°C)	kW	4 / 1,95	5,15 / 2	6,15 / 2,05	6,85 / 2	9,8 / 2,05
Consumption (A-7 °C / W+55 °C)	W	2051	2575	3000	3425	12331
Cooling capacity / EER (A+35°C / W+18°C)	kW	4,5 / 5,5	6,5 / 4,8	8,3 / 5,05	9,9 / 4,55	12 / 3,95
Consumption (A+35 °C / W+18 °C)	W	818	1354	1644	2176	7750
Cooling capacity / EER (A+35°C / W+7°C)	kW	4,7 / 3,45	7 / 3	7,45 / 3,35	8,2 / 3,25	11,5 / 2,75
Consumption (A+35 °C / W+7 °C)	W	1362	2333	2224	2523	11569
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	%	191 / 130	195 / 138	206 / 132	205 / 136	189 / 135
Average heating climate (W+35°C / W+55°C). SCOP		4,85 / 3,31	4,95 / 3,52	5,22 / 3,37	5,2 / 3,47	4,81 / 3,45
Warm heating climate (W+35°C / W+55°C). η _s	%	255 / 163	260 / 165	277 / 177	281 / 182	256 / 174
Warm heating climate (W+35°C / W+55°C). SCOP		6,46 / 4,15	6,57 / 4,21	6,99 / 4,51	7,09 / 4,62	6,48 / 4,43
Cold heating climate (W+35°C / W+55°C). η _s	%	160 / 102	165 / 111	170 / 112	170 / 117	160 / 118
Cold heating climate (W+35°C / W+55°C). SCOP		4,06 / 2,63	4,21 / 2,85	4,33 / 2,88	4,32 / 2,99	4,08 / 3,02
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	197 / 308	211 / 325	230 / 355	236 / 348	192 / 281
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		4,99 / 7,77	5,34 / 8,21	5,83 / 8,95	5,98 / 8,78	4,89 / 7,1
> Outdoor unit						
Width / Height / Depth	mm	1295 / 792 / 429	1295 / 792 / 429	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526
Net weight	kg	98	86	132	132	155
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	31	31	32	32	43
Circuit breaker	A	D32	D32	D32	D32	D45
Communication wiring	mm ²	2x1	2x1	2x1	2x1	2x1
Wiring to controller	mm ²	5x1,5	5x1,5	5x1,5	5x1,5	5x1,5
Sound pressure	dB(A)	58	47,5	48,5	50,5	53
Sound power	dB(A)	55	58	59	60	65
Type of refrigerant		R-32	R-32	R-32	R-32	R-32
GWP		675	675	675	675	675
Refrigerant charge	kg	1,4	1,4	1,4	1,4	1,75
t CO ₂ eq	tCO ₂	0,95	1,18	0,95	0,95	1,18
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	8,5	8,5	8,5	8,5	8,5
Expansion vessel	l	8	8	8	8	8
Water pipe connections	inch	1"	1"	1 1/4"	1 1/4"	1 1/4"
> Working range						
Outdoor ambient temperature for DHW min. / max.	°C	-25 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
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 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Leaving water temperature; min. / max. DHW	°C	40 / 65	40 / 65	40 / 65	40 / 65	40 / 65
Leaving water temperature; min. / max. heating	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
Leaving water temperature; min. / max. cooling	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25

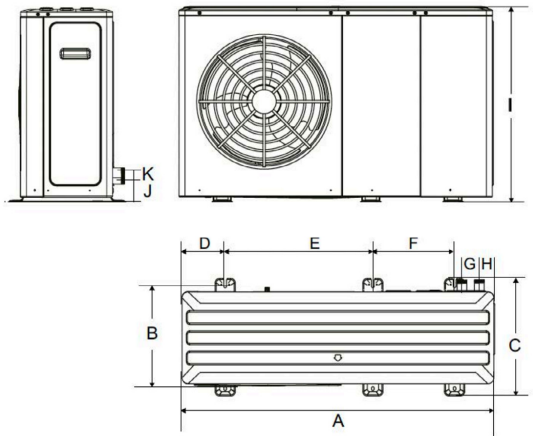
Aquantia KHPS-MO

Set model		KHPS-MO 14 PRO	KHPS-MO 16 PRO	KHPS-MO 12T PRO	KHPS-MO 14T PRO	KHPS-MO 16T PRO
> Set						
Heating capacity / COP (A+7°C / W+35°C)	kW	14,5 / 4,6	15,9 / 4,5	12,1 / 4,95	14,5 / 4,6	15,9 / 4,5
Consumption (A+7 °C / W+35 °C)	W	3152	3533	2444	3152	3533
Heating capacity / COP (A+7°C / W+55°C)	kW	13,8 / 2,95	16 / 2,85	11,9 / 3,05	13,8 / 2,95	16 / 2,85
Consumption (A+7 °C / W+55 °C)	W	4678	5614	3902	4678	5614
Heating capacity / COP (A-7°C / W+35°C)	kW	12 / 2,85	13,1 / 2,7	10 / 3	12 / 2,85	13,1 / 2,7
Consumption (A-7 °C / W+35 °C)	W	4211	4852	3333	4211	4852
Heating capacity / COP (A-7°C / W+55°C)	kW	11 / 2,05	12,5 / 2	9,8 / 2,05	11 / 2,05	12,5 / 2
Consumption (A-7 °C / W+55 °C)	W	5366	6250	4780	5366	6250
Cooling capacity / EER (A+35°C / W+18°C)	kW	13,5 / 3,6	14,9 / 3,4	12 / 3,95	13,5 / 3,6	14,9 / 3,4
Consumption (A+35 °C / W+18 °C)	W	3750	4382	3038	3750	4382
Cooling capacity / EER (A+35°C / W+7°C)	kW	12,4 / 2,5	14 / 2,5	11,5 / 2,75	12,4 / 2,5	14 / 2,5
Consumption (A+35 °C / W+7 °C)	W	4960	5600	4182	4960	5600
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	%	186 / 136	182 / 133	189 / 135	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). SCOP		4,72 / 3,47	4,62 / 3,41	4,81 / 3,45	4,72 / 3,47	4,62 / 3,41
Warm heating climate (W+35°C / W+55°C). η _s	%	260 / 177	249 / 176	256 / 174	260 / 176	248 / 176
Warm heating climate (W+35°C / W+55°C). SCOP		6,58 / 4,49	6,29 / 4,48	6,49 / 4,42	6,57 / 4,49	6,28 / 4,47
Cold heating climate (W+35°C / W+55°C). η _s	%	160 / 119	158 / 122	160 / 118	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). SCOP		4,07 / 3,05	4,02 / 3,12	4,08 / 3,02	4,07 / 3,05	4,02 / 3,12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	191 / 273	184 / 267	191 / 279	190 / 271	184 / 265
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		4,86 / 6,9	4,69 / 6,75	4,86 / 7,04	4,83 / 6,85	4,67 / 6,71
> Outdoor unit						
		KHP-MO 14 DVR2	KHP-MO 16 DVR2	KHP-MO 12 DTR2	KHP-MO 14 DTR2	KHP-MO 16 DTR2
Width / Height / Depth	mm	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526	1385 / 945 / 526
Net weight	kg	155	155	172	172	172
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	43	43	27	27	27
Circuit breaker	A	D45	D45	D32	D32	D32
Communication wiring	mm ²	2x1	2x1	2x1	2x1	2x1
Wiring to controller	mm ²	5x1,5	5x1,5	5x1,5	5x1,5	5x1,5
Sound pressure	dB(A)	53,5	57,5	53,5	54	58
Sound power	dB(A)	65	68	65	65	68
Type of refrigerant		R-32	R-32	R-32	R-32	R-32
GWP		675	675	675	675	675
Refrigerant charge	kg	1,75	1,75	1,75	1,75	1,75
t CO ₂ eq	tCO ₂	1,18	1,18	1,18	1,18	1,18
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	8,5	8,5	8,5	8,5	8,5
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 / 43	-25 / 43	-25 / 43	-25 / 43	-25 / 43
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 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Leaving water temperature; min. / max. DHW	°C	40 / 65	40 / 65	40 / 65	40 / 65	40 / 65
Leaving water temperature; min. / max. heating	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
Leaving water temperature; min. / max. cooling	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25

Aquantia KHPS-MO



Modelo	A	B	C	D	E	F	G	H	I	J
4/6kW	1295	397	429	760	265	105	225	792	161	/



Modelo	A	B	C	D	E	F	G	H	I	J
8/10/12/14/16kW	1385	482	526	760	270	60	221	945	182	81