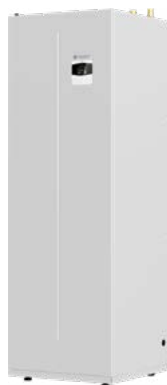


Aquantia Evo



Technical documentation	Download
User Manual	
Declaration of Conformity	
ErP	
Software	

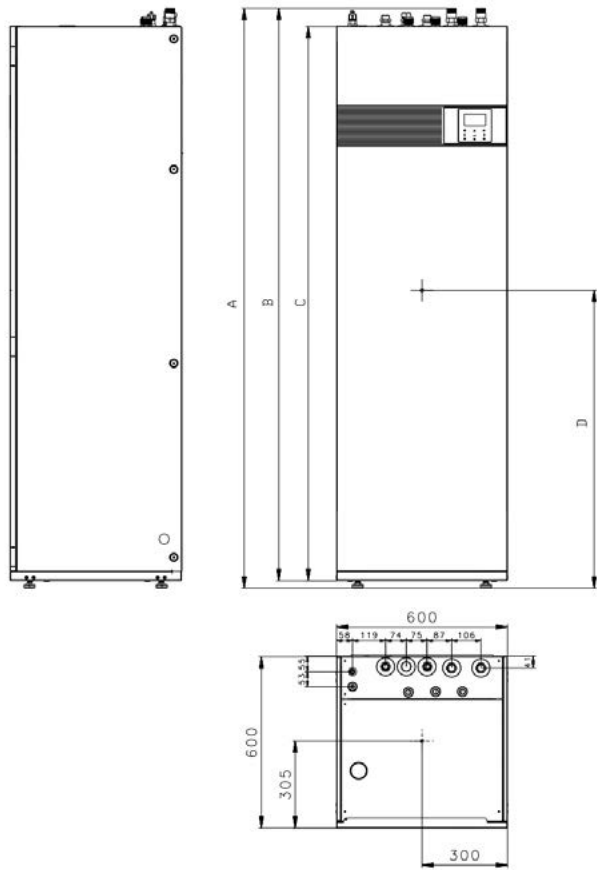


Set model		KHPIS-BI 12 EVO	KHPIS-BI 14 EVO	KHPIS-BI 14T EVO	KHPIS-BI 16 EVO	KHPIS-BI 16T EVO
> Set						
Heating capacity / COP (A+7°C / W+35°C)	kW	12.1 / 5.04	14 / 4.84	14 / 4.84	15.5 / 4.61	15.5 / 4.61
Consumption (A+7°C / W+35°C)	W	2400	2890	2890	3360	3360
Heating capacity / COP (A+7°C / W+55°C)	kW	12.1 / 3.01	14 / 3	14 / 3	15.5 / 2.99	15.5 / 2.99
Consumption (A+7°C / W+55°C)	W	4020	4670	4670	5180	5180
Heating capacity / COP (A-7°C / W+35°C)	kW	12.1 / 3.05	14 / 2.84	14 / 2.84	15.5 / 2.68	15.5 / 2.68
Consumption (A-7°C / W+35°C)	W	3970	4930	4930	5780	5780
Heating capacity / COP (A-7°C / W+55°C)	kW	11.4 / 2.12	11.9 / 2.12	11.9 / 2.12	13.7 / 2.12	13.7 / 2.12
Consumption (A-7°C / W+55°C)	W	5380	5610	5610	6460	6460
Cooling capacity / EER (A+35°C / W+18°C)	kW	10 / 4.25	10 / 4.25	10 / 4.25	10 / 4.25	10 / 4.25
Consumption (A+35°C / W+18°C)	W	2350	2350	2350	2350	2350
Cooling capacity / EER (A+35°C / W+7°C)	kW	10 / 3.01	10 / 3.01	10 / 3.01	10 / 3.01	10 / 3.01
Consumption (A+35°C / W+7°C)	W	3320	3320	3320	3320	3320
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	%	204.6 / 153.6	199.4 / 152.2	199.4 / 152.2	194 / 151	194 / 151
Average heating climate (W+35°C / W+55°C). SCOP		5.19 / 3.92	5.06 / 3.88	5.06 / 3.88	4.93 / 3.85	4.93 / 3.85
Warm heating climate (W+35°C / W+55°C). η _s	%	252.2 / 170.6	256.6 / 171	256.6 / 171	256.2 / 171	256.2 / 171
Warm heating climate (W+35°C / W+55°C). SCOP		6.38 / 4.34	6.49 / 4.35	6.49 / 4.35	6.48 / 4.35	6.48 / 4.35
Cold heating climate (W+35°C / W+55°C). η _s	%	179 / 124.6	179.4 / 127.8	179.4 / 127.8	179 / 131	179 / 131
Cold heating climate (W+35°C / W+55°C). SCOP		4.55 / 3.19	4.56 / 3.27	4.56 / 3.27	4.55 / 3.35	4.55 / 3.35
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	212.9 / 257.2	212.9 / 257.2	212.9 / 257.2	212.9 / 257.2	212.9 / 257.2
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		5.40 / 6.51	5.40 / 6.51	5.40 / 6.51	5.40 / 6.51	5.40 / 6.51
Average climate in DHW. Keymark certification. Energy class / Thread		A+ / XL	A+ / XL	A+ / XL	A+ / XL	A+ / XL
Average climate in DHW. Keymark certification. SCOP,ACS		3.40	3.40	3.40	3.40	3.40
Average climate in DHW. Keymark certification. η _{s,ACS}	%	136	136	136	136	136
> Indoor unit						
		KHPI-BI-16VR4XL	KHPI-BI-16VR4XL	KHPI-BI-16VR4XL	KHPI-BI-16VR4XL	KHPI-BI-16VR4XL
Width / Height / Depth	mm	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600
Net weight	kg	159	159	159	159	159
Tank capacity	l	240	240	240	240	240
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	16.9	16.9	16.9	16.9	16.9
Circuit breaker		C20	C20	C20	C20	C20
Sound pressure rated	dB(A)	33	33	33	33	33
Sound power	dB(A)	44	44	44	44	44
Backup electrical resistor	kW	3	3	3	3	3
Maximum pump pressure available	mH ₂ O	9	9	9	9	9
Expansion vessel	l	8	8	8	8	8
Water pipe connections	inch	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"
Water outlet temperature; DHW min. / max.	°C	20 / 60	20 / 60	20 / 60	20 / 60	20 / 60
Water outlet temperature; Heating min. / max.	°C	25 / 65	25 / 65	25 / 65	25 / 65	25 / 65
Water outlet temperature; Cooling min. / max.	°C	5 / 25	5 / 25	5 / 25	5 / 25	5 / 25
> Outdoor unit						
		KHP-BI-12 DVR4	KHP-BI-14 DVR4	KHP-BI-14 DTR4	KHP-BI-16 DVR4	KHP-BI-16 DTR4
Width / Height / Depth	mm	1051 / 1330 / 475	1051 / 1330 / 475	1051 / 1330 / 475	1051 / 1330 / 475	1051 / 1330 / 475
Net weight	kg	121	121	130.5	121	130.5
Power supply	V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	220-240 / 1 / 50	380-415 / 3 / 50
Max. intensity	A	32	32	13	32	13
Circuit breaker	A	D45	D45	D20	D45	D20
Communication wiring	mm ²	3x1	3x1	3x1	3x1	3x1
Sound pressure	dB(A)	46	46	46	46	46
Sound power	dB(A)	59	60	60	60	60
Type of refrigerant		R-32	R-32	R-32	R-32	R-32
GWP		675	675	675	675	675
Refrigerant charge	kg	1.84	1.84	1.84	1.84	1.84
t CO ₂ eq	tCO ₂	1.2	1.2	1.2	1.2	1.2
Meters of pre-charge, outdoor unit	m	15	15	15	15	15
Additional refrigerant charge, outdoor unit	kg/m	0.038	0.038	0.038	0.038	0.038
Max. total distance	m	50	50	50	50	50
Max. vertical distance	m	30	30	30	30	30
Liquid pipe	inch	3/8"	3/8"	3/8"	3/8"	3/8"
Gas pipe	inch	5/8"	5/8"	5/8"	5/8"	5/8"
Max. horizontal distance	m	50	50	50	50	50
Max. vertical distance with outdoor unit at the top	m	30	30	30	30	30
> Working range						
Outdoor ambient temperature for DHW min. / max.	°C	-28 / 43	-28 / 43	-28 / 43	-28 / 43	-28 / 43
Outdoor ambient temperature for heating min. / max.	°C	-28 / 35	-28 / 35	-28 / 35	-28 / 35	-28 / 35
Outdoor ambient temperature for cooling min. / max.	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

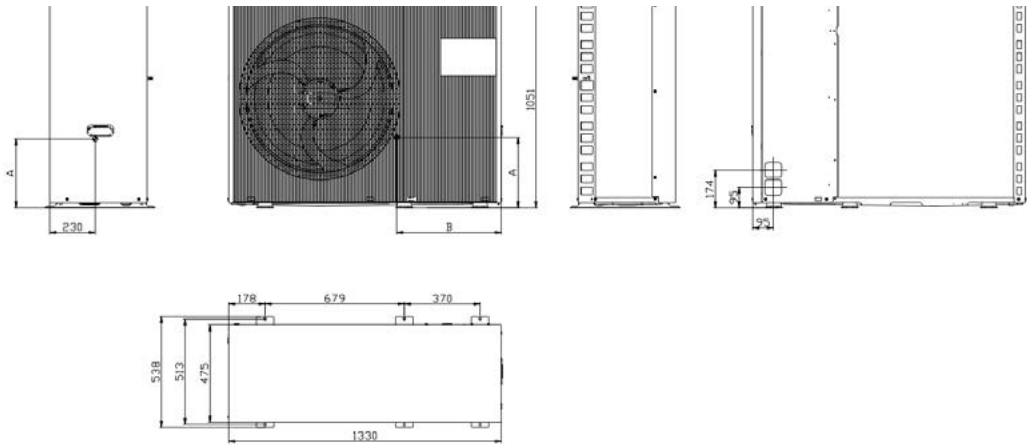
Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.038 kg/m is required per each additional metre.

(*): The power supply for indoor units is single-phase 220-240 V/1/50 Hz.

Aquantia Evo



unit: mm				
Model	A	B	C	D
AQUANTIA EVO	2034	2007	1942	1045



unit: mm		
Model	A	B
1 phase 12/14/16kW	351	530
3 phase 12/14/16kW	347	490