

Aquantia KHPIS-BI PRO



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Set model		KHPIS-BI 4 PRO L	KHPIS-BI 4 PRO XL	KHPIS-BI 6 PRO L	KHPIS-BI 6 PRO XL	KHPIS-BI 8 PRO L	KHPIS-BI 8 PRO XL	KHPIS-BI 10 PRO L
> Set								
Heating capacity / COP (A+7°C / W+35°C)	kW	4.25 / 5.20	4.25 / 5.20	6.20 / 5.00	6.20 / 5.00	8.3 / 5.2	8.3 / 5.2	10 / 5
Consumption (A+7 °C / W+35 °C)	W	817	817	1240	1240	1596	1596	2000
Heating capacity / COP (A+7°C / W+55°C)	kW	4.40 / 2.95	4.40 / 2.95	6.00 / 3.00	6.00 / 3.00	7.5 / 3.18	7.5 / 3.18	9.5 / 3.1
Consumption (A+7 °C / W+55 °C)	W	1492	1492	2000	2000	2358	2358	3065
Heating capacity / COP (A-7°C / W+35°C)	kW	4.70 / 3.10	4.70 / 3.10	6.00 / 3.00	6.00 / 3.00	7.00 / 3.20	7.00 / 3.20	8.00 / 3.05
Consumption (A-7 °C / W+35 °C)	W	1516	1516	2000	2000	2188	2188	2623
Heating capacity / COP (A-7°C / W+55°C)	kW	4.00 / 1.95	4.00 / 1.95	5.15 / 2.00	5.15 / 2.00	6.15 / 2.05	6.15 / 2.05	6.85 / 2.00
Consumption (A-7 °C / W+55 °C)	W	2051	2051	2575	2575	3000	3000	3425
Cooling capacity / EER (A+35°C / W+18°C)	kW	4.50 / 5.55	4.50 / 5.55	6.55 / 4.90	6.55 / 4.90	8.4 / 5.05	8.4 / 5.05	10 / 4.80
Consumption (A+35 °C / W+18 °C)	W	811	811	1337	1337	1663	1663	2083
Cooling capacity / EER (A+35°C / W+7°C)	kW	4.70 / 3.45	4.70 / 3.45	7.00 / 3.00	7.00 / 3.00	7.4 / 3.38	7.4 / 3.38	8.2 / 3.3
Consumption (A+35 °C / W+7 °C)	W	1362	1362	2333	2333	2189	2189	2485
Average heating climate (W+35°C / W+55°C). Energy class		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Average heating climate (W+35°C / W+55°C). η _s	%	191 / 130	191 / 130	195 / 138	195 / 138	205 / 132	205 / 132	205 / 137
Average heating climate (W+35°C / W+55°C). SCOP		4.85 / 3.31	4.85 / 3.31	4.95 / 3.52	4.95 / 3.52	5.21 / 3.36	5.21 / 3.36	5.19 / 3.49
Warm heating climate (W+35°C / W+55°C). η _s	%	254 / 162	254 / 162	258 / 165	258 / 165	273 / 176	273 / 176	279 / 180
Warm heating climate (W+35°C / W+55°C). SCOP		6.52 / 4.14	6.52 / 4.14	6.63 / 4.19	6.63 / 4.19	6.99 / 4.47	6.99 / 4.47	7.12 / 4.58
Cold heating climate (W+35°C / W+55°C). η _s	%	159 / 102	159 / 102	165 / 111	165 / 111	170 / 112	170 / 112	170 / 116
Cold heating climate (W+35°C / W+55°C). SCOP		4.06 / 2.63	4.06 / 2.63	4.21 / 2.85	4.21 / 2.85	4.32 / 2.88	4.32 / 2.88	4.32 / 2.99
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	197 / 308	197 / 308	211 / 325	211 / 325	230 / 355	230 / 355	236 / 348
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		4.99 / 7.77	4.99 / 7.77	5.34 / 8.21	5.34 / 8.21	5.83 / 8.95	5.83 / 8.95	5.98 / 8.78
Average climate in DHW. Keymark certification. Energy class / Thread		A+ / L	A+ / XL	A+ / L	A+ / XL	A+ / L	A+ / XL	A+ / L
Average climate in DHW. Keymark certification. SCOP,ACS		3.10	3.34	3.10	3.34	3.02	3.36	3.02
Average climate in DHW. Keymark certification. η _s ,ACS %	%	127	136	127	136	125	137	125
> Indoor unit								
		KHPI-BI-10VR2L	KHPI-BI-10VR2XL	KHPI-BI-10VR2L	KHPI-BI-10VR2XL	KHPI-BI-10VR2L	KHPI-BI-10VR2XL	KHPI-BI-10VR2L
Width / Height / Depth	mm	600 / 1683 / 600	600 / 1943 / 600	600 / 1683 / 600	600 / 1943 / 600	600 / 1683 / 600	600 / 1943 / 600	600 / 1683 / 600
Net weight	kg	139	155	139	155	139	155	139
Tank capacity	l	190	240	190	240	190	240	190
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	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity	A	14.3	14.3	14.3	14.3	14.3	14.3	14.3
Circuit breaker		C16	C16	C16	C16	C16	C16	C16
Sound pressure rated	dB(A)	22	22	24	24	22	22	22
Sound power	dB(A)	38	38	38	38	40	40	40
Minimum water volume	l	40	40	40	40	40	40	40
Nominal flow rate	m³/h	0.7	0.7	0.95	0.95	1.40	1.40	1.70
Backup electrical resistor	kW	3	3	3	3	3	3	3
Maximum pump pressure available	mH ₂ O	8.5	8.5	8.5	8.5	8.5	8.5	8.5
Expansion vessel	l	8	8	8	8	8	8	8
Water pipe connections	inch	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"
Water outlet temperature; DHW min. / max.	°C	30 / 65	30 / 65	30 / 65	30 / 65	30 / 65	30 / 65	30 / 65
Water outlet temperature; Heating min. / max.	°C	25 / 65	25 / 65	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	5 / 25	5 / 25

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Set model		KHPIS-BI 4 PRO L	KHPIS-BI 4 PRO XL	KHPIS-BI 6 PRO L	KHPIS-BI 6 PRO XL	KHPIS-BI 8 PRO L	KHPIS-BI 8 PRO XL	KHPIS-BI 10 PRO L
> Outdoor unit		KHP-BI 4 DVR2	KHP-BI 4 DVR2	KHP-BI 6 DVR2	KHP-BI 6 DVR2	KHP-BI 8 DVR2	KHP-BI 8 DVR2	KHP-BI 10 DVR2
Width / Height / Depth	mm	1008 / 712 / 426	1008 / 712 / 426	1008 / 712 / 426	1008 / 712 / 426	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523
Net weight	kg	58	58	58	58	77	77	77
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	220-240 / 1 / 50	220-240 / 1 / 50
Max. intensity	A	18	18	18	18	19	19	19
Circuit breaker	A	D20	D20	D20	D20	D20	D20	D20
Communication wiring	mm ²	3x1	3x1	3x1	3x1	3x1	3x1	3x1
Sound pressure	dB(A)	44	44	45	45	46	46	49
Sound power	dB(A)	56	56	58	58	59	59	60
Type of refrigerant		R-32	R-32	R-32	R-32	R-32	R-32	R-32
GWP		675	675	675	675	675	675	675
Refrigerant charge	kg	1.5	1.5	1.5	1.5	1.65	1.65	1.65
t CO ₂ eq	tCO ₂	1.0	1.0	1.0	1.0	1.1	1.1	1.1
Meters of pre-charge, outdoor unit	m	15	15	15	15	15	15	15
Additional refrigerant charge, outdoor unit	kg/m	0.012	0.012	0.012	0.012	0.038	0.038	0.038
Max. total distance	m	50	50	50	50	50	50	50
Max. vertical distance	m	30	30	30	30	30	30	30
Liquid pipe	inch	1/4"	1/4"	1/4"	1/4"	3/8"	3/8"	3/8"
Gas pipe	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
> Working range								
Outdoor ambient temperature for DHW min. / max.	°C	-25 / 43	-25 / 43	-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	-25 / 35	-25 / 35
Outdoor ambient temperature for cooling min. / max.	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

Set model		KHPIS-BI 10 PRO XL	KHPIS-BI 12 PRO XL	KHPIS-BI 14 PRO XL	KHPIS-BI 16 PRO XL	KHPIS-BI 14T PRO XL	KHPIS-BI 16T PRO XL
> Set							
Heating capacity / COP (A+7°C / W+35°C)	kW	10 / 5	12.10 / 4.95	14.50 / 4.70	16.0 / 4.5	14.50 / 4.70	16.0 / 4.5
Consumption (A+7 °C / W+35 °C)	W	2000	2444	3085	3556	3085	3556
Heating capacity / COP (A+7°C / W+55°C)	kW	9.5 / 3.1	12.00 / 3.1	13.80 / 3.00	16.0 / 2.9	13.80 / 3.00	16.0 / 2.9
Consumption (A+7 °C / W+55 °C)	W	3065	3871	4600	5517	4600	5517
Heating capacity / COP (A-7°C / W+35°C)	kW	8.00 / 3.05	10.00 / 3.00	12.00 / 2.85	13.10 / 2.70	12.00 / 2.85	13.10 / 2.70
Consumption (A-7 °C / W+35 °C)	W	2623	3333	4211	4852	4211	4852
Heating capacity / COP (A-7°C / W+55°C)	kW	6.85 / 2.00	9.80 / 2.05	11.00 / 2.05	12.50 / 2.00	11.00 / 2.05	12.50 / 2.00
Consumption (A-7 °C / W+55 °C)	W	3425	4780	5366	6250	5366	6250
Cooling capacity / EER (A+35°C / W+18°C)	kW	10 / 4.80	12.00 / 4.00	13.50 / 3.60	14.9 / 3.4	13.50 / 3.60	14.9 / 3.4
Consumption (A+35 °C / W+18 °C)	W	2083	3000	3750	4382	3750	4382
Cooling capacity / EER (A+35°C / W+7°C)	kW	8.2 / 3.3	11.60 / 2.75	12.70 / 2.55	14.0 / 2.45	12.70 / 2.55	14 / 2.45
Consumption (A+35 °C / W+7 °C)	W	2485	4218	4980	5714	4980	5714
Average heating climate (W+35°C / W+55°C). Energy class		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Average heating climate (W+35°C / W+55°C). η _s	%	205 / 137	189 / 135	186 / 136	182 / 133	186 / 136	182 / 133
Average heating climate (W+35°C / W+55°C). SCOP		5.19 / 3.49	4.81 / 3.45	4.72 / 3.47	4.62 / 3.41	4.72 / 3.47	4.62 / 3.41
Warm heating climate (W+35°C / W+55°C). η _s	%	279 / 180	256 / 174	260 / 177	249 / 176	260 / 176	248 / 176
Warm heating climate (W+35°C / W+55°C). SCOP		7.12 / 4.58	6.53 / 4.43	6.63 / 4.49	6.33 / 4.48	6.63 / 4.48	6.33 / 4.47
Cold heating climate (W+35°C / W+55°C). η _s	%	170 / 116	160 / 118	160 / 119	158 / 122	160 / 119	158 / 122
Cold heating climate (W+35°C / W+55°C). SCOP		4.32 / 2.99	4.08 / 3.02	4.07 / 3.05	4.02 / 3.12	4.06 / 3.05	4.02 / 3.12
Chilling efficiency (W+7°C / W+18°C). Keymark certification. η _{s,c}	%	236 / 348	192 / 281	191 / 273	184 / 267	190 / 271	184 / 265
Chilling efficiency (W+7°C / W+18°C). Keymark certification. SEER		5.98 / 8.78	4.89 / 7.1	4.86 / 6.90	4.69 / 6.75	4.83 / 6.85	4.67 / 6.71
Average climate in DHW. Keymark certification. Energy class / Thread		A+ / XL	A+ / XL	A+ / XL	A+ / XL	A+ / XL	A+ / XL
Average climate in DHW. Keymark certification. SCOP,ACS		3.36	3	3	3	3	3
Average climate in DHW. Keymark certification. η _s ,ACS	%	137	123	123	123	123	123

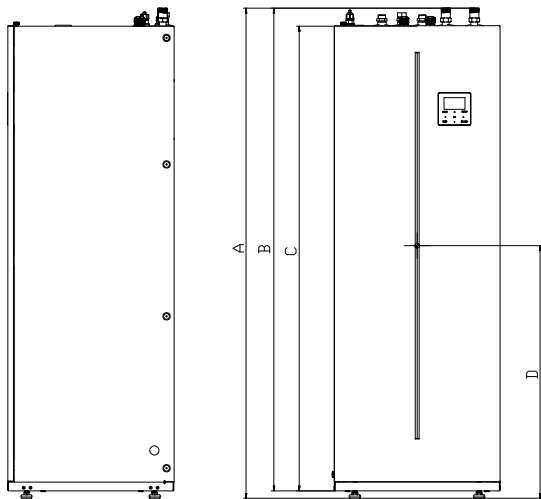
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Set model		KHPIS-BI 10 PRO XL	KHPIS-BI 12 PRO XL	KHPIS-BI 14 PRO XL	KHPIS-BI 16 PRO XL	KHPIS-BI 14T PRO XL	KHPIS-BI 16T PRO XL
> Indoor unit		KHPI-BI- 10VR2XL	KHPI-BI- 16VR2XL	KHPI-BI- 16VR2XL	KHPI-BI- 16VR2XL	KHPI-BI- 16VR2XL	KHPI-BI- 16VR2XL
Width / Height / Depth	mm	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600	600 / 1943 / 600
Net weight	kg	155	155	155	155	155	155
Tank capacity	l	240	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	220-240 / 1 / 50
Max. intensity	A	14.3	14.3	14.3	14.3	14.3	14.3
Circuit breaker		C16	C16	C16	C16	C16	C16
Sound pressure rated	dB(A)	22	24	25	24	24	25
Sound power	dB(A)	40	42	44	44	42	44
Minimum water volume	l	40	60	60	60	60	60
Nominal flow rate	m ³ /h	1.70	2.10	2.50	2.95	2.50	2.95
Backup electrical resistor	kW	3	3	3	3	3	3
Maximum pump pressure available	mH ₂ O	8.5	8.5	8.5	8.5	8.5	8.5
Expansion vessel	l	8	8	8	8	8	8
Water pipe connections	inch	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"	1" / 3/4"
Water outlet temperature; DHW min. / max.	°C	30 / 65	30 / 65	30 / 65	30 / 65	30 / 65	30 / 65
Water outlet temperature; Heating min. / max.	°C	25 / 65	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	5 / 25
> Outdoor unit		KHP-BI 10 DVR2	KHP-BI 12 DVR2	KHP-BI 14 DVR2	KHP-BI 16 DVR2	KHP-BI 14T DVR2	KHP-BI 16T DVR2
Width / Height / Depth	mm	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523	1118 / 865 / 523
Net weight	kg	77	96	96	96	112	112
Power supply	V/ph/Hz	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	220-240 / 1 / 50	380-415 / 3 / 50	380-415 / 3 / 50
Max. intensity	A	19	30	30	30	14	14
Circuit breaker	A	D20	D32	D32	D32	D16	D16
Communication wiring	mm ²	3x1	3x1	3x1	3x1	3x1	3x1
Sound pressure	dB(A)	49	50	51	55	51	55
Sound power	dB(A)	60	64	65	68	65	68
Type of refrigerant		R-32	R-32	R-32	R-32	R-32	R-32
CWP		675	675	675	675	675	675
Refrigerant charge	kg	1.65	1.84	1.84	1.84	1.84	1.84
t CO ₂ eq	tCO ₂	1.1	1.2	1.2	1.2	1.2	1.2
Meters of pre-charge, outdoor unit	m	15	15	15	15	15	15
Additional refrigerant charge, outdoor unit	kg/m	0.038	0.038	0.038	0.038	0.038	0.038
Max. total distance	m	50	50	50	50	50	50
Max. vertical distance	m	30	30	30	30	30	30
Liquid pipe	inch	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"
Gas pipe	inch	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
> Working range							
Outdoor ambient temperature for DHW min. / max.	°C	-25 / 43	-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	-25 / 35
Outdoor ambient temperature for cooling min. / max.	°C	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43

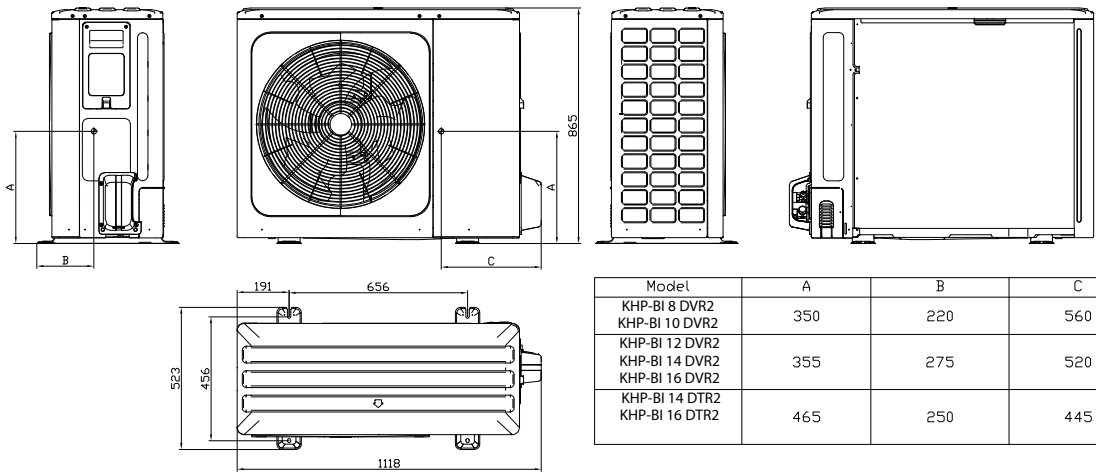
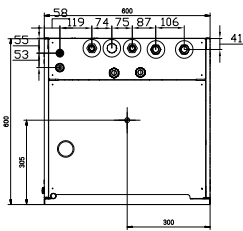
Supplementary charge: The initial charging is valid for the first 15 m (liquid line). For greater distances, a supplementary charge of 0.020 kg/m is required per each additional metre for models 4/6, and 0.038 kg/m per each additional metre for models 8/10/12/14/16.

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

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Model	A	B	C	D
KHPI-BI-10VR2L	1775	1748	1682	915
KHPI-BI-10VR2XL	2034	2007	1942	1045
KHPI-BI-12VR2XL	2034	2007	1942	1045



Model	A	B	C
KHP-BI 8 DVR2	350	220	560
KHP-BI 10 DVR2	355	275	520
KHP-BI 12 DVR2	465	250	445
KHP-BI 14 DVR2			
KHP-BI 16 DVR2			
KHP-BI 14 DTR2			
KHP-BI 16 DTR2			