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HuiLian APP

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AIROSD



AIROSD Heating
Cooling DHW Heat Pump



R290





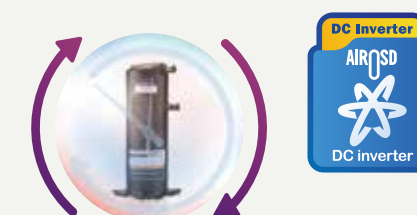
Heating Cooling and Domestic Hot Water

The R32 inverter heat pump is cost effective and can be used in cold temperatures as low as -35°C for heating cooling and DHW.



High Efficiency DC Inverter Compressor

DC inverter compressor and DC fan motor, range rateable compressor from 20%-120%.



Smart Controller

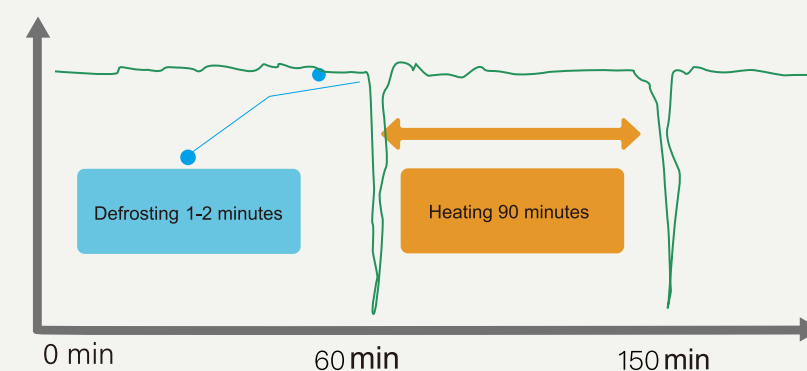
Airosd controllers are Wi-Fi enabled for Smart Control/weather compensation.APP remote control. Compatible with third party smart thermostats.

Engineers' menu for fault diagnosis, providing historical errors. Easy control for the end user displaying current and required temperature.



Intelligent Defrosting

Intelligent Defrosting enables high efficiency while delivering energy.

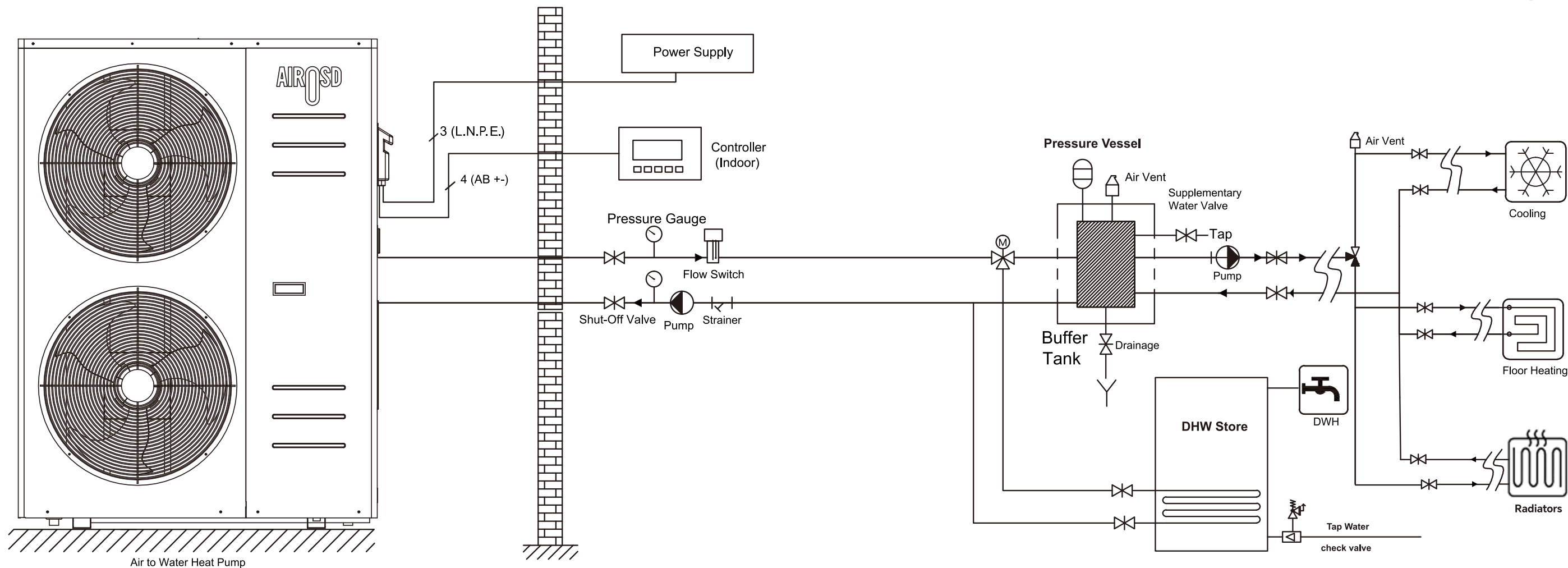


Smart Rapid Defrosting Technology+

Defrosting Graph

- Efficient and rapid defrosting technology in 2 minutes
- Heating time over 90 minutes

Hydraulic System Schematic
Heating & Cooling & DHW



WIFI Adopted

Airosd controllers are wifi enabled allowing end user and service engineers access when it's required reducing the need for expensive call outs. Full on-line vision and control assuring the end user that the system is operating correctly.



Cascade Control

Airosd are able to cascade up to 8 units for a lead lag weather compensated solution, increasing efficiency. All units can be controlled via one controller.



R32 R290 R513A

Eco-friendly refrigerants R32 R290 and R513 are used in order to reduce the impact on the environment and contribute to carbon reducing green technology.



Quiet Operation

Airosd heat pumps have four noise reducing options to both the compressor and the fan motor to deliver maximum output for environmental comfort.



Anti Icing Technology

Airosd anti icing technology reduces the requirement for defrost cycles, in turn increasing efficiency and keeping run costs to a minimum.



EVI Technology

EVI technology increases efficiency by up to 30% during coldest external temperatures.



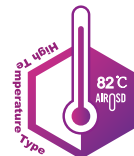
DC Inverter Drive

Both compressor and fan motor DC inverter driven resulting in lower running cost. World renowned partners Panasonic / Mitsubishi / Hitachi rotary compressors for reliability.



Intelligent Controller

Automatic call for auxiliary back up with end user notification facility. AIROSD units are compatible with third party controls for whole house intelligent control.



High Temp. Applications

R32 delivering up to 62°C from the condenser, R290 offering up to 75°C for hard to treat retro systems and R513A for up to 82°C flow temperatures commonly required for commercial / process heating whilst attaining high COPs.



Easy Installation

Simple design making installation and operation easier for both the engineer and the end user. The controller can be easily removed for commissioning and altering parameters.



Auto Defrost

Airosd patented defrost technology reduces defrost cycles to 90 seconds avoiding long down time periods for defrost cycles.



-35°C Working Parameters

Airosd units are designed for external working temperatures down to -35°C to assure end user comfort when its needed, negating requirement for expensive electrical back up heaters.



R290 DC Inverter Air Source Heat Pump



Erp A+++



Zone
Control



WIFI
Control



Smart
Defrosting



DC Inverter



Intelligent Control



Quiet Operation

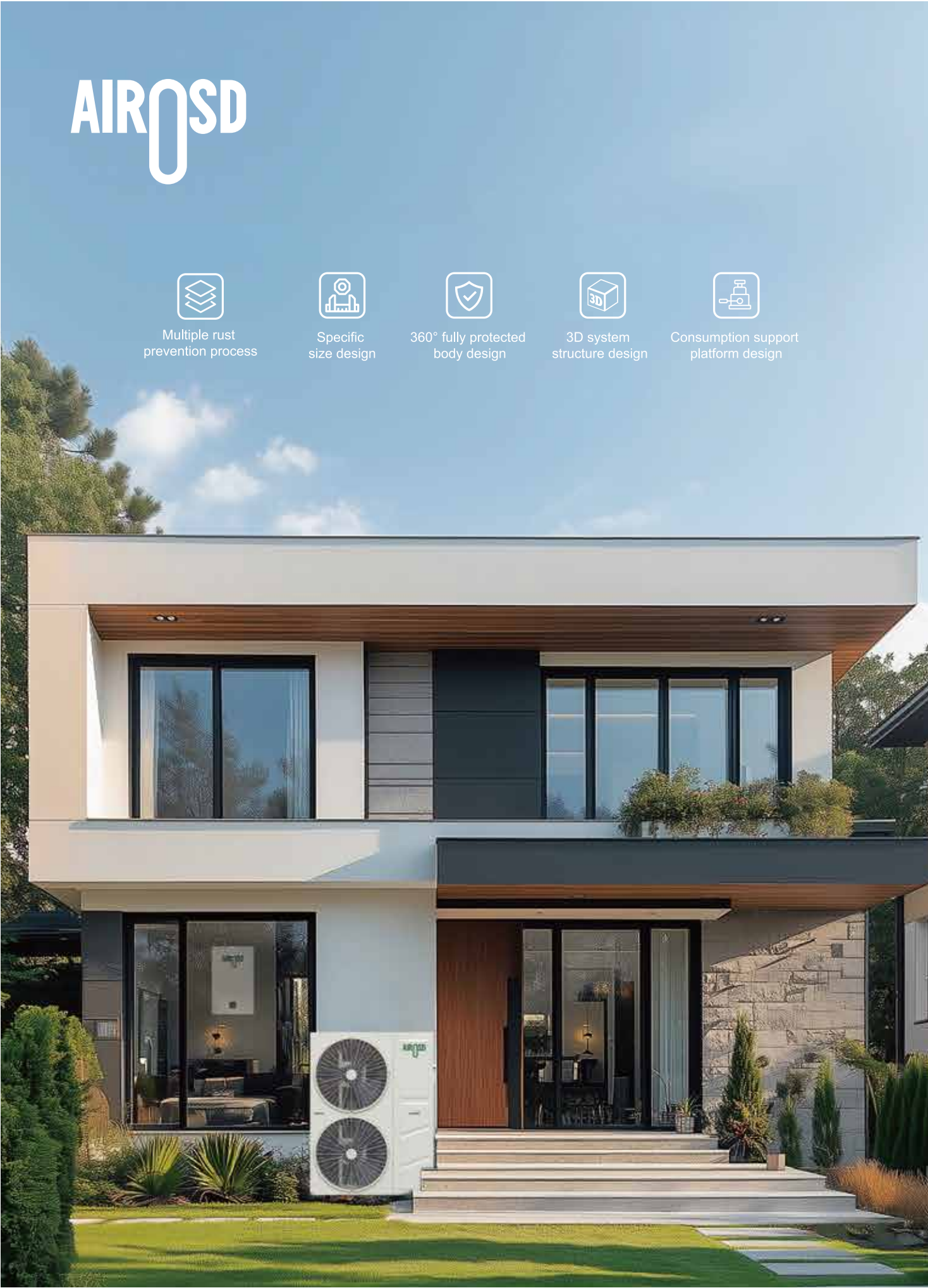
R290 Panasonic CE E RABA			QBKFXFC-006SBI	QBKFXFC-010SBI	QBKFXFC-014SBI	QBKFXFC-020SBI
Heating Capacity						
Heating Capacity	A7W35	KW	3.0 ~ 9.0	3.5 ~ 12.0	4.2 ~ 16.0	8.0 ~ 25.0
Input Power		KW	0.55 ~ 2.08	0.64 ~ 2.79	0.79 ~ 3.73	1.46 ~ 6.10
COP		/	4.33 ~ 5.46	4.30 ~ 5.48	4.29 ~ 5.32	4.10 ~ 5.48
Heating Capacity	A7W45	KW	2.9 ~ 8.7	3.4 ~ 11.7	4.1 ~ 15.7	7.8 ~ 24.6
Input Power		KW	0.69 ~ 2.45	0.81 ~ 3.21	0.98 ~ 4.58	1.80 ~ 7.41
COP		/	3.55 ~ 4.20	3.64 ~ 4.20	3.43 ~ 4.18	3.32 ~ 4.33
Heating Capacity	A7W55	KW	2.9 ~ 8.4	3.3 ~ 11.3	4.0 ~ 15.3	7.5 ~ 24.0
Input Power		KW	0.84 ~ 2.88	0.95 ~ 3.92	1.16 ~ 5.46	2.18 ~ 8.82
COP		/	2.92 ~ 3.47	2.88 ~ 3.47	2.80 ~ 3.45	2.72 ~ 3.44
Cooling Capacity						
Cooling Capacity	A35W7	KW	3.0 ~ 8.0	3.8 ~ 9.5	5.0 ~ 13.0	6.5 ~ 18.0
Input Power		KW	0.83 ~ 2.84	1.04 ~ 3.35	1.47 ~ 4.56	1.80 ~ 6.60
EER		/	2.82 ~ 3.62	2.84 ~ 3.64	2.85 ~ 3.40	2.73 ~ 3.62
Domestic Hot Water						
Heating Capacity	A20W15-55	KW	3.0 ~ 9.0	4.0 ~ 12.0	5.5 ~ 17.0	8.0 ~ 25.0
Input Power		KW	0.59 ~ 2.05	0.80 ~ 2.74	1.07 ~ 3.91	1.60 ~ 5.71
COP		/	4.40 ~ 5.10	4.38 ~ 5.01	4.35 ~ 5.14	4.38 ~ 5.00
Operating Current		A	17	20	12.5	18
Maximum Input Power		KW	4	4.6	7.5	11.7
Power Supply		V / Hz	220V-240V ~ / 50Hz		380V-415V/3N ~ / 50Hz	
ERP(35℃)		/	A+++			
ERP(55℃)		/	A++			
Ambient Temp. Range		℃	-25 ~ 45			
Refrigerant Type		--	R290			
Compressor	Type	/	DC Inverter Twin Rotary			
Throttling Components	Type	/	Electronic Expansion Valve			
Air Side Heat Exchanger		/	Hydrophilic Aluminum Foil Fin Heat Exchanger			
Fan Motor	Type	/	Brushless DC motor			
	Number	/	1			2
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger			
Water Pump	Brand		Shinhoo			
Temp. Range of Heating		℃	25~75			
Temp. Range of Cooling		℃	5~25			
Temp. Range of DHW		℃	40~65			
Water Port Size		/	G1-1/4 Internal Thead(DN32)	G1-1/4 Internal Thead(DN32)	G1-1/4 Internal Thead(DN32)	G1-1/4 Internal Thead(DN32)
Rated flow rate		m³ / h	1.20	1.72	2.40	3.44
Noise		dB	58	60	62	68
Unit Dimension (W×D×H)		mm	1110×455×700	1407×580×970	1407×580×970	1138×475×1577
N.W.		kg	90	130	150	230

Remarks:
1. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;
2. Heating A7W45condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;
3. Rated cooling condition: (DB/WB)=35°C, inlet water temperature 12°C, outlet water temperature 7°C;
4. DHW Heating capacity conditions : (DB/WB) =20°C/15°C, inlet water temperature 15°C, outlet water temperature 55°C.
Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



Heating Cooling & DHW Split Unit Heat Pump

		QBKFXFC-016SRI	QBKFXFC-018SRI	QBKFXFC-024SRII	QBKFXFC-030SRII
Heating capacity range	KW	6.5 ~ 18.0	7.5 ~ 20.0	9.0 ~ 26.0	12.5 ~ 35.0
Power Supply	V / Hz	220V-240/50Hz	220V-240/50Hz	380V-415V ~ 3N/50Hz	
Heating Capacity					
A7W35	KW /	16 / 4.53	18 / 4.46	24 / 4.56	30 / 4.53
A7W45	KW /	16 / 3.65	18 / 3.6	24 / 3.65	30 / 3.6
A7W55	KW /	16.0/2.98	18.0/2.94	24.0/2.98	30.0/2.95
A-7W35	KW /	12.8/3.25	14.5/3.18	18.0/3.24	24.0/3.21
A-7W45	KW /	13.1/2.72	14.5/2.68	18.2/2.68	24.2/2.71
A-7W55	KW /	13.1/2.25	14.6/2.21	18.5/2.22	24.3/2.23
A-15W35	KW /	10.5/2.71	11.5/2.68	15.0/2.69	20.0/2.71
A-15W45	KW /	10.5/2.28	11.6/2.23	15.2/2.28	20.2/2.29
A-15W55	KW /	10.6/1.95	11.8/1.88	15.5/1.92	20.4/1.93
DHW Heating Capacity					
Heating Capacity	KW	18	20	26	35
Water Yield	L/H	387	430	559	753
Input Power	KW	4.14	4.67	6.10	8.24
COP	/	4.35	4.28	4.26	4.25
Operating Current	A	18.5	20.9	10.3	13.9
Cooling Capacity A35W7					
Cooling Capacity	KW	14	16	22	28
Input Power	KW	4.46	5.21	6.98	9.49
EER	/	3.14	3.07	3.15	2.95
Operating Current	A	20.0	23.4	11.8	16.0
Heating Capacity / COP					
ERP(35℃)	/	A+++	A+++	A+++	A+++
ERP(55℃)	/	A++	A++	A++	A++
Operating Current	A	32	34	20	27
Maximum Input Power	KW	7.7	8.2	12.9	17.4
Ambient Temp. Range	℃	-35 ~ 45	-35 ~ 45	-35 ~ 45	-35 ~ 45
		Compressor	Compressor	Compressor	Compressor
Refrigerant Type	--	R32	R32	R32	R32
Type	/	DC inverter twin rotary	DC inverter twin rotary	DC inverter twin rotary	DC inverter twin rotary
Brand	/	Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC



AIRQSD



Multiple rust prevention process



Specific size design



360° fully protected body design



3D system structure design



Consumption support platform design

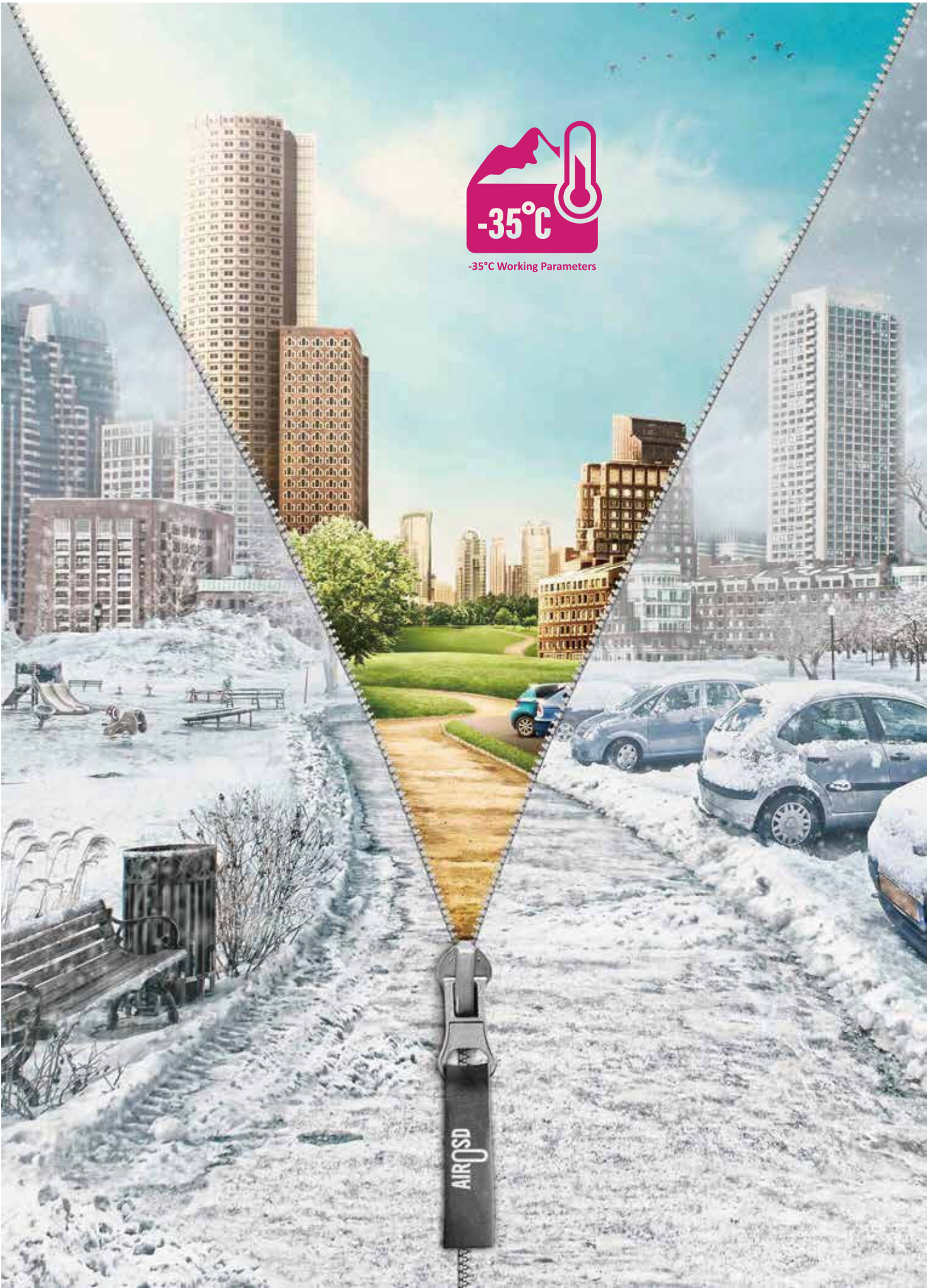
Heating Cooling & DHW Split Unit Heat Pump

		QBKFXFC-006SRI	QBKFXFC-009SRI	QBKFXFC-012SRI	QBKFXFC-014SRI
Heating capacity range	KW	3.0 ~ 8.0	3.5 ~ 10.0	4.5 ~ 14.0	5.5 ~ 16.0
Power Supply	V / Hz	220V-240/50Hz	220V-240/50Hz	220V-240/50Hz	220V-240/50Hz
Heating Capacity					
A7W35	KW /	6 / 4.42	9 / 4.46	12 / 4.56	14 / 4.42
A7W45	KW /	6 / 3.43	9 / 3.45	12 / 3.62	14 / 3.55
A7W55	KW /	5.9/2.92	9.1/2.91	12.0/2.90	14.0/2.92
A-7W35	KW /	4.7/3.21	7.2/3.16	9.6/3.20	11.5/3.23
A-7W45	KW /	4.8/2.75	7.3/2.65	9.6/2.68	11.5/2.68
A-7W55	KW /	4.8/2.25	7.3/2.20	9.7/2.21	11.6/2.23
A-15W35	KW /	3.8/2.68	5.7/2.67	7.5/2.65	9.0/2.68
A-15W45	KW /	3.8/2.25	5.8/2.21	7.5/2.22	9.0/2.24
A-15W55	KW /	3.9/1.86	6.0/1.82	7.6/1.83	9.1/1.87
DHW Heating Capacity					
Heating Capacity	KW	8	10	14	16
Water Yield	L/H	172	215	301	344
Input Power	KW	1.86	2.31	3.24	3.76
COP	/	4.3	4.32	4.32	4.26
Operating Current	A	8.3	10.4	14.5	16.8
Cooling Capacity A35W7					
Cooling Capacity	KW	5	6.5	10	13
Input Power	KW	1.75	2.28	3.17	4.18
EER	/	2.85	2.85	3.15	3.11
Operating Current	A	7.9	10.2	14.2	18.7
Heating Capacity / COP					
ERP(35°C)	/	A+++	A+++	A+++	A+++
ERP(55°C)	/	A++	A++	A++	A++
Operating Current	A	16	20	23	30
Maximum Input Power	KW	3.8	4.8	5.5	7.2
Ambient Temp. Range	°C	-35 ~ 45	-35 ~ 45	-35 ~ 45	-35 ~ 45
		Compressor	Compressor	Compressor	Compressor
Refrigerant Type	--	R32	R32	R32	R32
Type	/	DC inverter twin rotary	DC inverter twin rotary	DC inverter twin rotary	DC inverter twin rotary
Brand	/	Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC	Panasonic/GMCC

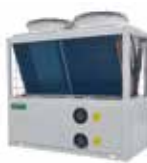


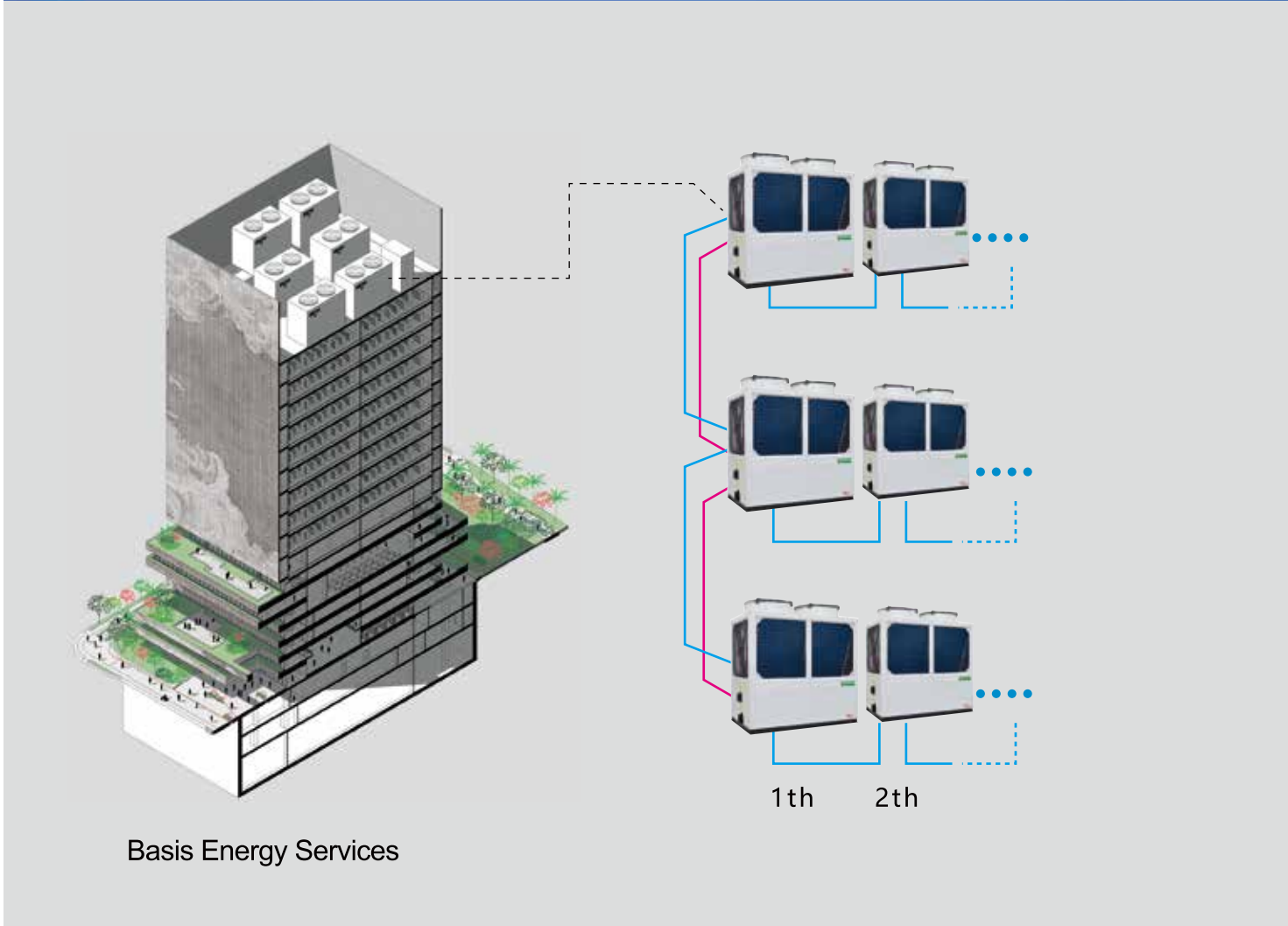
Model			QBKFXFC-050UBII
Heating Capacity			
Heating Capacity	A7W35	KW	17.53 ~ 55.00
Input Power		KW	3.15 ~ 14.00
COP		/	3.93 ~ 5.56
Heating Capacity	A7W55	KW	17.86 ~ 52.23
Input Power		KW	5.32 ~ 19.27
COP		/	2.71 ~ 3.36
Cooling Capacity			
Cooling Capacity	A35W7	KW	10.00 ~ 35.00
Input Power		KW	2.84 ~ 13.89
EER		/	2.52 ~ 3.52
Max Operating Current		A	30
Max Input Power		KW	20
Power Supply		V / Hz	380-415/3N ~ / 50Hz
ERP(35℃)		/	A+++
ERP(55℃)		/	A++
Ambient Temp. Range		℃	-25 ~ 45
Refrigerant Type		--	R290
Compressor	Type	/	DC Inverter Twin Rotary
Throttling Components	Type	/	Electronic Expansion Valve
Air Side Heat Exchanger		/	Hydrophilic Aluminum Foil Fin Heat Exchanger
Fan Motor	Type	/	Brushless DC motor
	Number	/	2
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger
Temp. Range of Heating		℃	25~75
Temp. Range of Cooling		℃	5~25
Water Port Size		/	DN50
Water flow		m³ / h	8.60
Water Side Pressure Loss		kPa	40
Noise (1M)		dB(A)	≤59
Packing Informations			
Unit Dimensions (width × depth × height)		mm	2018×954×1896
Net Weight		kg	550
Packing Weight		kg	580

Remarks:
1. Heating A7W35 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 30℃, outlet water temperature 35℃;
2. Heating A7W55condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 47℃, outlet water temperature 55℃;
3. Rated cooling condition: (DB/WB)=35℃, inlet water temperature 12℃, outlet water temperature 7℃;
Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



 **EVI DC Inverter
Air Source Heat Pump**

Model	BKFXFC-045URII	BKFXFC-070URII	BKFXFC-100VRII	BKFXFC-150VRII	BKFXFC-200VRII
					
Ambient Temp	-35℃~45℃				
Power Supply	380V/3N ~ /50Hz				
Heating: DB Temp. 7℃, WB Temp. 6℃ Water Inlet Temp. 40℃, Water Outlet Temp. 45℃					
Heating Capacity (KW)	45.0	70.0	108.0	150.0	200.0
COP	3.55	3.52	3.34	3.35	3.34
Input Power (KW)	12.7	19.9	32.4	44.8	59.90
Cooling Capacity: DB Temp. 5℃, Water Inlet 12℃, Water Outlet 7℃;					
Cooling Capacity (KW)	32.0	50.0	65.0	105.0	130.0
COP	2.75	2.60	2.82	2.80	2.82
Input Power (KW)	11.64	19.2	23.0	37.5	46.1
Heating (Fan Coil): DB Temp. -12℃ / -20℃, Water Outlet 41℃					
Heating Capacity (KW)	28.0/25.8	46.0/42.0	65.0/65.0	103.0/85.0	130.0/110.0
COP	2.42/2.11	2.35/2.01	2.45/2.05	2.45/2.05	2.45/2.05
Input Power (KW)	11.57/12.21	19.6/20.9	26.5/31.7	42.0/41.5	53.1/53.7
IPLV(H)/(C)	2.92/3.21	2.85/3.15	3.06/3.26	2.95/3.20	3.06/3.26
HSPF/APF(W.h/W.h)	2.98/3.25	2.90/3.12	3.18/3.29	3.02/3.15	3.18/3.29
Heating (Floor Heating): DB Temp. -12℃ / -20℃, Water Outlet 35℃					
Heating Capacity (KW)	28.0/26.6	46.0/42.0	63.0/63.0	100.0/82.5	126.0/106.0
COP	2.72/2.32	2.55/2.21	2.75/2.35	2.75/2.36	2.75/2.35
Input Power (KW)	10.29/11.47	18.0/19.0	22.92/26.8	36.4/35.0	45.8/45.1
IPLV(H)/(C)	3.42	3.35	3.42	3.40	3.42
HSPF/APF(W.h/W.h)	3.45	3.28	3.52	3.45	3.52
Heating (Radiator): DB Temp. -12℃ / -20℃, Water Outlet 50℃					
Heating Capacity (KW)	28.5/25.7	47.0/42.4	60.0/60.0	105.0/87.0	120.0/100.0
COP (KW)	2.04/1.81	2.03/1.75	2.12/1.85	2.12/1.85	2.12/1.85
Input Power (KW)	13.91/14.17	23.2/24.2	28.3/32.4	49.5/47.0	56.6/54.1
IPLV(H)/(C)	2.35	2.31	2.32	2.31	2.32
HSPF/APF(W.h/W.h)	2.61	2.58	2.60	2.60	2.60
Power / Pipe / Packing					
Max .Input Power (kW)	18.0	29.0	50.0	70.0	100.0
Max .Running Current (A)	30	52	85	120	170
Water Flow Rate (m³/h)	5.5	8.6	11.2	18.1	22.4
Water Resistance(KPa)	50	50	70	70	80
Connection Spec. (inch)	G1.5"	DN65	DN65	DN80	DN80
Refrigerant Type / Weight (-/)	R32/7.0	R32/6.0*2	R32/8.0*2	R32/8.0*4	R32/8.0*4
Heating / Cooling Noise	67/68	70/69	71/70	73/72	74/73
Waterproof Grade Type	IPX4	IPX4	IPX4	IPX4	IPX4
Dimension (mm)	905*905*1535	2000*900*1950	2000*900*1950	2250*1350*2400	2200*1400*2400
Net weight (kg)	265	600	800	1200	1250



R417A High Temp.DC Inverter Commercial Heat Pump

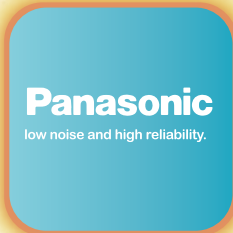
Model BKFXFC-045UCII			
Power Supply		/	400V 3N ~ 50Hz
Ambient Temp.		℃	-30 ~ 43
Heating Capacity			
A15W65	Heating Capacity	KW	50.0
	Power Supply	KW	18
	COP	/	2.85
A7W65	Heating Capacity	KW	45.0
	Power Supply	KW	17
	COP	/	2.65
A7W55	Heating Capacity	KW	45.0
	Power Supply	KW	15.0
	COP	/	3.0
A-5W65	Heating Capacity	KW	45.0
	Power Supply	KW	20
	COP	/	2.25
A-10W70	Heating Capacity	KW	40.0
	Power Supply	KW	21
	COP	/	1.95
A-10W65	Heating Capacity	KW	43.0
	Power Supply	KW	20
	COP	/	2.18
A-15W65	Heating Capacity	KW	38.0
	Power Supply	KW	18
	COP	/	2.11
A-20W65	Heating Capacity	KW	32.2
	Power Supply	KW	16
	COP	/	2.06
Accessories information			
Compressor	Type	/	EVI DC Inverter
	Brand	/	HITACHI
	Qty	set	2
Fan	Type	/	Inverter
	Qty	set	2
	Air Out Type	/	TOP
Heat Exchanger Form		/	Plate Form*2
Max. Running Current		A	50
Refrigerant		/	R417A
Max.Water Output Temp.		℃	70
Pipe Work			
Water Outlet Size		/	2×DN65
Maximum Working Pressure (Water Side)		MPa	1
Circulating Water Flow		m³/h	7.7
Water Side Pressure Loss		kPa	≤50
Noise		dB(A)	65
Packing Informations			
Unit Dimensions (width × depth × height)		mm	2018×988×1896
Packing Dimensions (width × depth × height)		mm	2110*1080*2100
Net Weight		kg	620
Packing Weight		kg	650

Note:
A7W65 heating conditions: ambient dry bulb temperature 7℃, wet bulb temperature 6℃, hot water inlet/outlet temperature 60/65℃;
A-15W65 heating condition: ambient dry bulb temperature -15℃, hot water outlet temperature 65℃.
If the specification of the product changes due to improvement, the parameters on the nameplate shall prevail.

R32 Inverter Ground Source
Heat Pump
Heating Cooling & DHW

Model			BSFXK-006RI	BSFXK-010RI	BSFXK-012RI	BSFXK-018RI	BSFXK-030RII
Photo							
Water temperature range		℃	5~35	5~35	5~35	5~35	5~35
Rated heating capacity		KW	6.3	10	12	18	30
Rated heating input power(kw)		KW	1.6	2.5	3	4.5	7.5
COP		/	4	4	4	4	4
Maximum operating current		A	12	18	18	34	25
Noise		dB(A)	≤50	≤50	≤50	≤52	≤55
Power Supply		/	230V~ 1N 50Hz	230V~ 1N 50Hz	230V~ 1N 50Hz	230V~ 1N 50Hz	415V~ 3N 50Hz
Refrigerant		/	R32	R32	R32	R32	R32
Outlet water Temperature		℃	35~60	35~60	35~60	35~60	35~60
Condenser	Type	/	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger
	Water pressure loss (Max.)	kPa	≤30	≤50	≤50	≤50	≤50
	Water inlet size	/	2×DN20	2×DN25	2×DN25	2×DN25	2×DN40
	Water flow volume	m³/h	1.08	1.72	2.06	3.1	5.16
Evaporator	Type	/	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger
	Water pressure loss (Max.)	kPa	≤30	≤50	≤50	≤50	≤50
	Water inlet size	/	2×DN20	2×DN25	2×DN25	2×DN25	2×DN40
	Water flow volume	m³/h	0.81	1.26	1.51	2.27	3.78
Dimension	L*W*H	mm	740*490*590	740*490*590	740*490*590	930*690*905	930*690*905
Net Weight		KG	60	70	75	100	150

Remarks:
Rated heating condition: heat source side inlet /outlet temperature 10 /5 ℃ ; Use side inlet / outlet temperature of 40 /45 ℃.
*Due to product improvement, above data is subject to change without prior notice, Please take the nameplate as standard.
Optional: Water pump/Heat meter/Electricity meter/Electric heater in built



Eco-Friendly



DC Inverter



Wi-Fi Control

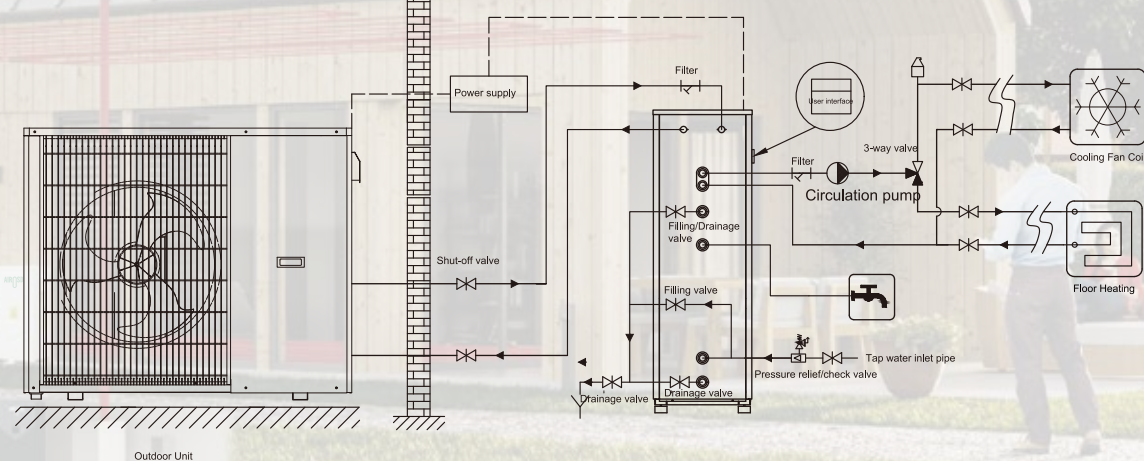
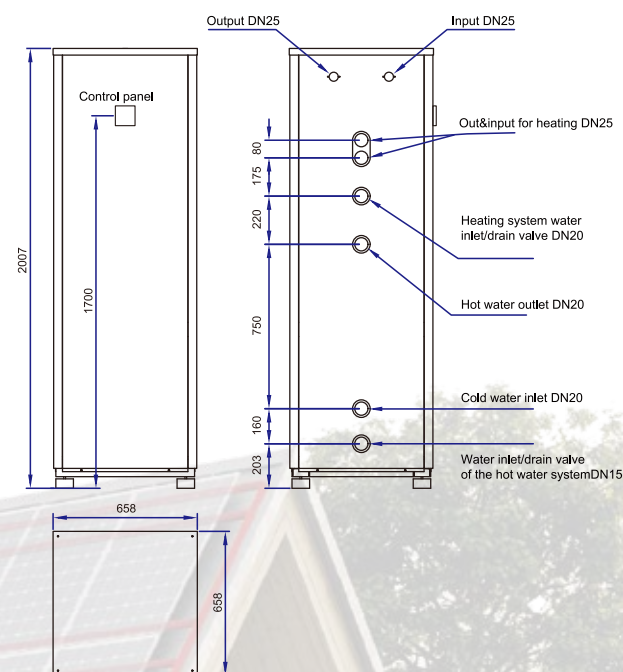
Photo			
Applicable water source temperature range		℃	10~40
Heating capacity		kw	80
Rated cooling input power		kW	16
Rated cooling energy efficiency		COP	5
Maximum operating current		A	70
Noise		dB(A)	≤60
Power Specifications		/	380V~ 3N 50Hz
Compressor		/	Hitachi Compressor
Refrigerant		/	R410A/R32
Use side heat exchanger	form		Plate heat exchanger
	Water resistance (kPa)		≤50
	Takeover Specifications		2×DN50
	Water flow (m3/h)		13.8
Source side heat exchanger	form		Plate heat exchanger
	Water resistance (kPa)		≤50
	Takeover Specifications		2×DN50
	Water flow (m3/h)		17.2
size	length (mm)		1150
	width (mm)		1080
	height (mm)		745
		kg	300

Rated cooling condition: water source side inlet/outlet temperature 25/30 ℃ ; Use side inlet/outlet temperature of 12/7 ℃ .



AIROSD

AIROSD Hydraulic Module Easy Installation



AIROSD Heat Pump System With Hydraulic Module Including Water Heater