

AIROSD



SIEMENS



Panasonic

+GF+



wilo



HuiLian APP

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AIROSD



AIROSD Heating Cooling DHW Heat Pump



R290





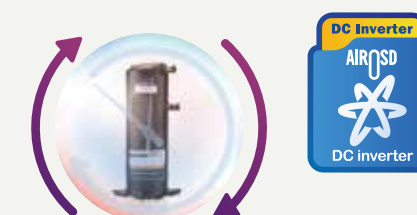
Heating Cooling and Domestic Hot Water

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

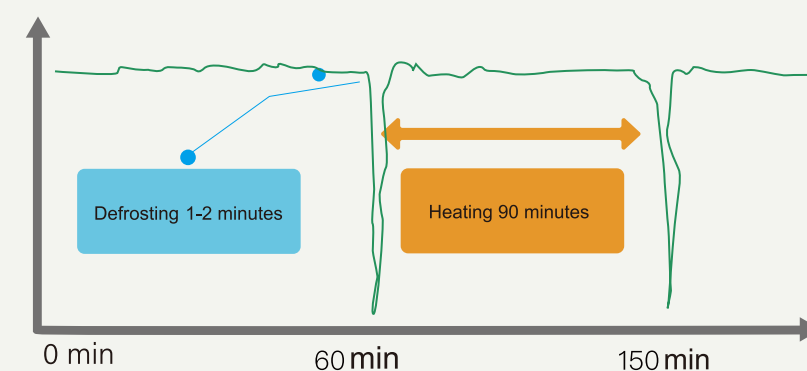
Airosd controllers are Wi-Fi enabled for Smart Control/weather compensation.APP remote control. Compatible with third party smart thermostats.

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.

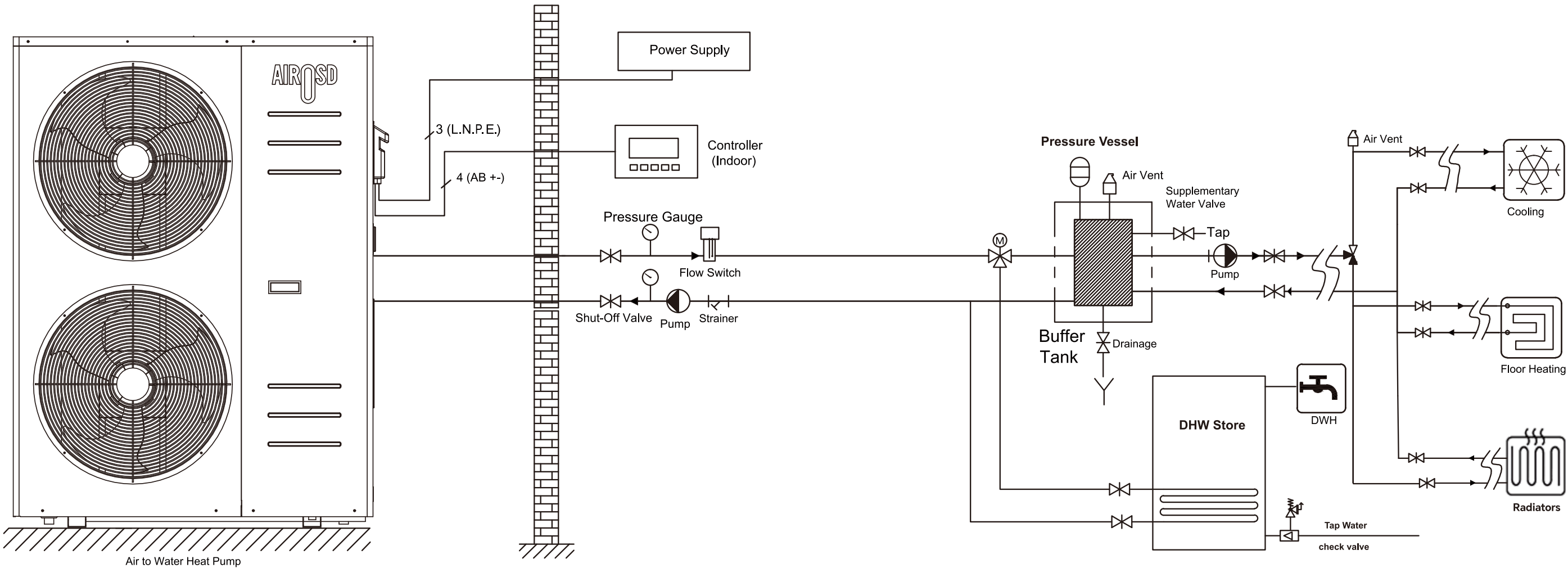


Defrosting time

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 R513A 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.



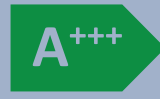
-35°C Working Parameters

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

Heating Cooling & DHW Heat Pump



Erp A+++



Zone Control



WIFI Control



Smart Defrosting



QBKFXFC-010SBI / QBKFXFC-012SBI

DC Inverter

Intelligent Control

Quiet Operation

							
Model			QBKFXFC-006SBI	QBKFXFC-010SBI	QBKFXFC-014SBII	QBKFXFC-020SBII	QBKFXFC-030SBII
Heating							
Heating Capacity	A7W35	kW	3.0 ~ 9.0	3.5 ~ 12.0	4.2 ~ 16.0	8.0 ~ 25.0	10.0 ~ 31.0
Input Power		kW	0.55 ~ 2.08	0.64 ~ 2.79	0.79 ~ 3.73	1.46 ~ 6.10	1.85 ~ 8.11
COP		W/W	4.33 ~ 5.46	4.30 ~ 5.48	4.29 ~ 5.32	4.10 ~ 5.48	3.82 ~ 5.42
Heating Capacity	A7W45	kW	2.9 ~ 8.7	3.4 ~ 11.7	4.1 ~ 15.7	7.8 ~ 24.6	9.5 ~ 30.0
Input Power		kW	0.69 ~ 2.45	0.81 ~ 3.21	0.98 ~ 4.58	1.80 ~ 7.41	2.20 ~ 9.10
COP		W/W	3.55 ~ 4.20	3.64 ~ 4.20	3.43 ~ 4.18	3.32 ~ 4.33	3.30 ~ 4.30
Heating Capacity	A7W55	kW	2.9 ~ 8.4	3.3 ~ 11.3	4.0 ~ 15.3	7.5 ~ 24.0	8.0 ~ 28.0
Input Power		kW	0.84 ~ 2.88	0.95 ~ 3.92	1.16 ~ 5.46	2.18 ~ 8.82	2.35 ~ 10.4
COP		W/W	2.92 ~ 3.47	2.88 ~ 3.47	2.80 ~ 3.45	2.72 ~ 3.44	2.70 ~ 3.40
Cooling							
Cooling Capacity	A35W7	kW	3.0 ~ 8.0	3.8 ~ 9.5	5.0 ~ 13.0	6.5 ~ 18.0	8.0 ~ 22.0
Input Power		kW	0.83 ~ 2.84	1.04 ~ 3.35	1.47 ~ 4.56	1.80 ~ 6.60	2.27 ~ 8.15
EER		/	2.82 ~ 3.62	2.84 ~ 3.64	2.85 ~ 3.40	2.73 ~ 3.62	2.70 ~ 3.52
Domestic Hot Water							
Heating Capacity	A20W15-55	kW	3.0 ~ 9.0	4.0 ~ 12.0	5.5 ~ 17.0	8.0 ~ 25.0	10.0 ~ 32.0
Input Power		kW	0.59 ~ 2.05	0.80 ~ 2.74	1.07 ~ 3.91	1.60 ~ 5.71	2.00 ~ 7.41
COP		W/W	4.40 ~ 5.10	4.38 ~ 5.01	4.35 ~ 5.14	4.38 ~ 5.00	4.32 ~ 5.00
Power Supply		V / Hz	220V-240V ~ / 50/60Hz		380V-415V/3N ~ / 50/60Hz		
Max. input power		kW	4	4.6	7.5	11.7	12.5
Max. OP Current		A	17	20	12.5	18	20
ERP(Average Climate Water Outlet 35℃)		/	A + +				
ERP(Average Climate Water Outlet 55℃)		/	A + +				
Sound pressure level at 1 meter		dB(A)	44	46	48	53	55
Sound power level		DB	58	60	62	68	70
Refrigerant Type		--	R290				
Compressor	Type	/	DC Inverter Dual-Rotor				
Expansion Device	Type	/	Electronic Expansion Valve				
Air Side Heat Exchanger	Type	/	Hydrophilic Aluminum Foil Fin Heat Exchanger				
Fan Motor	Type	/	Brushless DC motor				
	Number	/	1		2	2	
	Air Discharge Direction	/	Side Discharge				
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger				
Water Pump	Brand		Shinhoo				
Operating temp. range		℃	-25 ~ 45				
Temp. Range of Heating		℃	25~75				
Temp. Range of Cooling		℃	5~25				
Temp. Range of DHW		℃	40~65				
Water Connection Specifications		/	G1-1/4" Female Thread(DN32)	G1-1/4" Female Thread(DN32)	G1-1/4" Female Thread(DN32)	G1-1/4" Female Thread(DN32)	G1-1/4" Female Thread(DN32)
Water Flow Rate		m³ / h	1.20	1.72	2.40	3.44	3.44
External Head		kPa	55	50	45	42	40
Product Dimensions (L×W×H)		mm	1030×495×700	1407×580×970	1407×580×970	1138×525×1577	1138×525×1577
N.W.		kg	90	130	150	230	250

Remarks:

1. Heating A7W35 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 30℃, outlet water temperature 35℃;

2. Heating A7W45 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 40℃, outlet water temperature 45℃;

3. Heating A7W55 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 47℃, outlet water temperature 55℃;

4. Cooling condition: (DB/WB)=35℃/24℃, inlet water temperature 12℃, outlet water temperature 7℃;

5. DHW Heating capacity conditions : (DB/WB) =20℃/15℃,Initial water temperature 15℃, Termination Water temperature 55℃.

Due to product improvement, above datas are subject to change without prior notice, please take the rating plate as standard.



R290				
Model			QBKFXFC-050UBII	QBKFXFC-050SBII
Heating				
Heating Capacity	A7W35	kW	17.53 ~ 55.00	17.53 ~ 55.00
Input Power		kW	3.15 ~ 14.00	3.15 ~ 14.00
COP		W/W	3.93 ~ 5.56	3.93 ~ 5.56
Heating Capacity	A7W45	kW	16.26 ~ 54.23	16.26 ~ 54.23
Input Power		kW	3.73 ~ 16.89	3.73 ~ 16.89
COP		W/W	3.21 ~ 4.36	3.21 ~ 4.36
Heating Capacity	A7W55	kW	15.86 ~ 52.23	15.86 ~ 52.23
Input Power		kW	5.32 ~ 19.27	5.32 ~ 19.27
COP		W/W	2.71 ~ 3.36	2.71 ~ 3.36
Cooling				
Cooling Capacity	A35W7	kW	10.00 ~ 35.00	10.00 ~ 35.00
Input Power		kW	2.84 ~ 13.89	2.84 ~ 13.89
EER		/	2.52 ~ 3.52	2.52 ~ 3.52
Domestic Hot Water				
Heating Capacity	A20W15-55	kW	18.0 ~ 50.0	18.0 ~ 50.0
Input Power		kW	3.6 ~ 12.5	3.6 ~ 12.5
COP		W/W	4.0 ~ 5.0	5
Power Supply			V / Hz	220V-240V ~ / 50/60Hz
Max. input power			kW	25
Max. OP Current			A	40
ERP(Average Climate Water Outlet 35℃)			/	A+++
ERP(Average Climate Water Outlet 55℃)			/	A++
Sound pressure level at 1 meter			dB(A)	60
Sound power level			DB	74
Refrigerant Type			--	R290
Compressor	Type	/	DC Inverter Dual-Rotor	
Expansion Device	Type	/	Electronic Expansion Valve	
Air Side Heat Exchanger	Type	/	Hydrophilic Aluminum Foil Fin Heat Exchanger	
Fan Motor	Type	/	Brushless DC motor	
	Number	/	2	4
	Air Discharge Direction	/	Top Discharge	Side Discharge
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger	
Operating temp. range			℃	-25 ~ 45
Temp. Range of Heating			℃	25~75
Temp. Range of Cooling			℃	5~25
Temp. Range of DHW			℃	40~65
Water Connection Specifications			/	DN50 Flange
Water Flow Rate			m³ / h	8.6
Water-side pressure loss			kPa	40
Product Dimensions (L×W×H)			mm	2018×954×1896
N.W			kg	580

2018×954×1896			1609×783×2237	
580			550	

Remarks:

1. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;

2. Heating A7W45 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;

3. Heating A7W55 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 47°C, outlet water temperature 55°C;

4. Cooling condition: (DB/WB)=35°C/24°C, inlet water temperature 12°C, outlet water temperature 7°C;

5. DHW Heating capacity conditions : (DB/WB) =20°C/15°C,Initial water temperature 15°C, Termination Water temperature 55°C.

Heating Cooling & DHW (Monobloc) Heat Pump

												
Model			QBKFXFC-006SRI		QBKFXFC-009SRI		QBKFXFC-012SRI		QBKFXFC-014SRI			
Heating												
Heating Capacity	A7W35	kW	2.5 ~ 6.0		3.0 ~ 9.0		4.5 ~ 12.0		5.5 ~ 14.0			
Input Power		kW	0.51 ~ 1.32		0.61 ~ 1.99		0.90 ~ 2.67		1.10 ~ 3.04			
COP		W/W	4.53 ~ 4.90		4.53 ~ 4.93		4.50 ~ 5.00		4.60 ~ 5.00			
Heating Capacity	A7W45	kW	2.5 ~ 6.0		3.0 ~ 9.0		4.5 ~ 12.0		5.5 ~ 14.0			
Input Power		kW	0.59 ~ 1.71		0.71 ~ 2.56		1.05 ~ 3.42		1.28 ~ 3.97			
COP		W/W	3.51 ~ 4.26		3.52 ~ 4.23		3.51 ~ 4.28		3.53 ~ 4.30			
Heating Capacity	A7W55	kW	2.5 ~ 6.0		3.0 ~ 9.0		3.5 ~ 10.0		5.5 ~ 14.0			
Input Power		kW	0.72 ~ 2.06		0.95 ~ 3.10		1.09 ~ 3.45		1.73 ~ 4.83			
COP		W/W	2.91 ~ 3.46		2.90 ~ 3.15		2.90 ~ 3.20		2.90 ~ 3.18			
Cooling												
Cooling Capacity	A35W7	kW	2.0 ~ 5.0		2.5 ~ 7.0		4.5 ~ 12.0		5.0 ~ 12.0			
Input Power		kW	0.55 ~ 1.71		0.74 ~ 2.48		1.36 ~ 4.24		1.47 ~ 4.21			
EER		/	2.92 ~ 3.62		2.82 ~ 3.40		2.83 ~ 3.30		2.85 ~ 3.40			
Domestic Hot Water												
Heating Capacity	A20W15-55	kW	3.5 ~ 8.0		4.0 ~ 10.0		4.5 ~ 14.0		5.5 ~ 16.0			
Input Power		kW	0.70 ~ 1.90		0.83 ~ 2.31		0.93 ~ 3.22		1.11 ~ 3.64			
COP		W/W	4.20 ~ 5.01		4.32 ~ 4.80		4.35 ~ 4.85		4.40 ~ 4.95			
Power Supply			V / Hz		220V-240V ~ / 50/60Hz							
Max. input power			kW		3.8		4.8		5.5		7.2	
Max. OP Current			A		16		20		23		30	
ERP(Average Climate Water Outlet 35°C)			/		A + + +		A + + +		A + + +		A + + +	
ERP(Average Climate Water Outlet 55°C)			/		A + +		A + +		A + +		A + +	
Sound pressure level at 1 meter			dB(A)		43		51		51		52	
Sound power level			DB		57		65		65		66	
Refrigerant Type			--		R32		R32		R32		R32	
Compressor	Type	/		DC Inverter Dual-Rotor								
Expansion Device	Type	/		Electronic Expansion Valve								
Air Side Heat Exchanger	Type	/		Hydrophilic Aluminum Foil Fin Heat Exchanger								
Fan Motor	Type	/		Brushless DC motor								
	Number	/		1						2		
	Air Discharge Direction			Side Discharge								
Water Side Heat Exchanger	Type	/		Plate Heat Exchanger								
Operating temp. range			°C		-35 ~ 45							
Temp. Range of Heating			°C		25~58							
Temp. Range of Cooling			°C		5~25							
Temp. Range of DHW			°C		40~55							
Water Connection Specifications			/		G1" Female Thread(DN25)		G1" Female Thread(DN25)		G1" Female Thread(DN25)		G1" Female Thread(DN25)	
Water Flow Rate			m³ / h		1.38		1.72		2.41		2.75	
Water-side pressure loss			kPa		25		25		25		35	
Product Dimensions (L×W×H)			mm		1075×480×805		1075×480×805		995×445×1000		1040×445×1350	
N.W			kg		80		93		105		135	

Remarks:

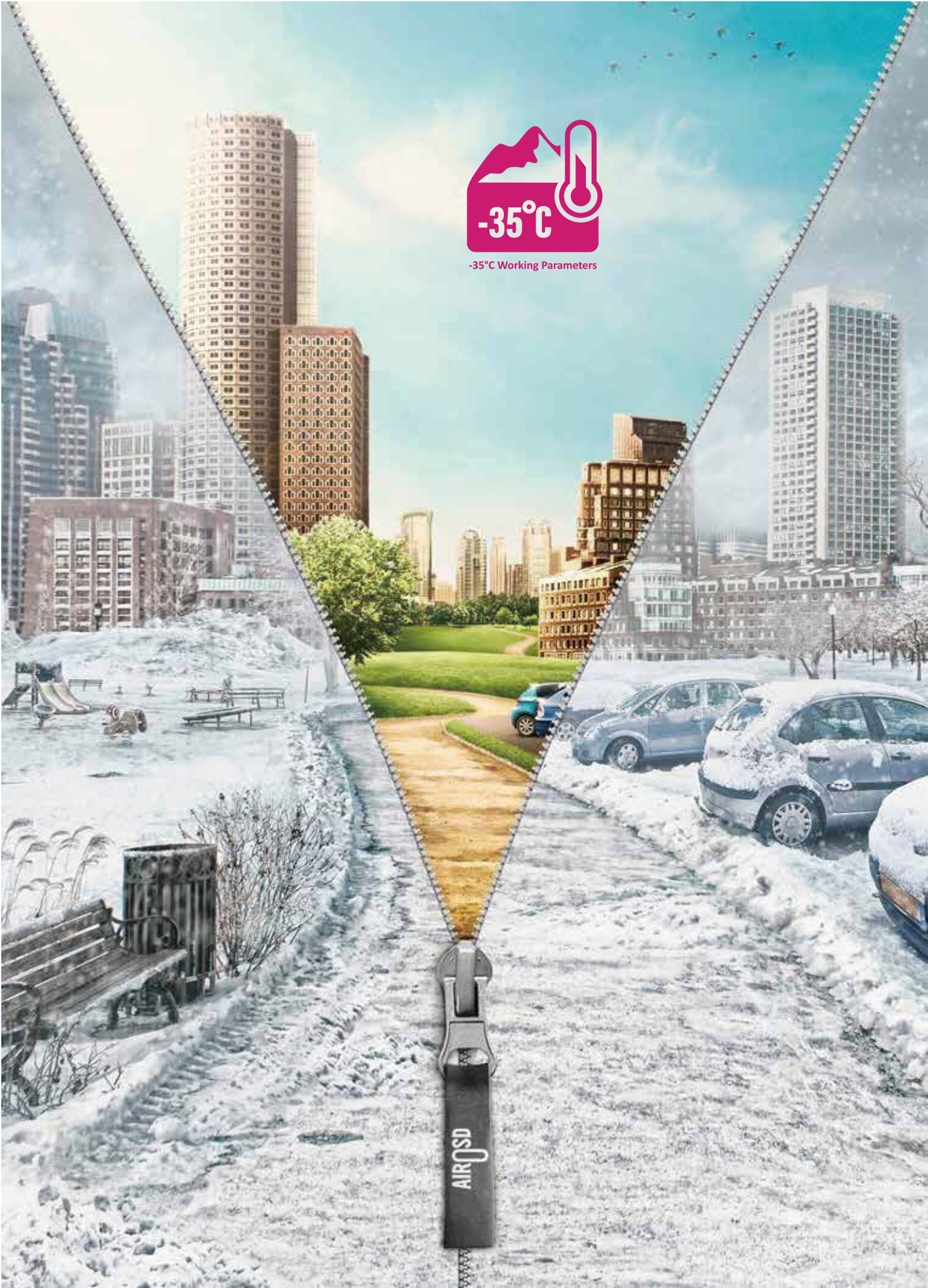
1. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;
2. Heating A7W45 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;
3. Heating A7W55 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 47°C, outlet water temperature 55°C;
4. Cooling condition: (DB/WB)=35°C/24°C, inlet water temperature 12°C, outlet water temperature 7°C;
5. DHW Heating capacity conditions : (DB/WB) =20°C/15°C,Initial water temperature 15°C, Termination 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 (Monobloc) Heat Pump

			   			
Model			QBKFXFC-016SRI	QBKFXFC-018SRI	QBKFXFC-024SRII	QBKFXFC-030SRII
Heating						
Heating Capacity	A7W35	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.21 ~ 3.53	1.34 ~ 4.14	1.75 ~ 5.22	1.96 ~ 6.52
COP		W/W	4.53 ~ 4.96	4.35 ~ 4.85	4.60 ~ 5.14	4.60 ~ 5.10
Heating Capacity	A7W45	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.40 ~ 4.56	1.54 ~ 5.22	2.08 ~ 6.84	2.33 ~ 8.72
COP		W/W	3.51 ~ 4.30	3.45 ~ 4.21	3.51 ~ 4.32	3.44 ~ 4.30
Heating Capacity	A7W55	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.89 ~ 5.52	2.06 ~ 6.43	2.70 ~ 8.33	3.02 ~ 10.53
COP		W/W	2.90 ~ 3.18	2.80 ~ 3.15	2.88 ~ 3.33	2.85 ~ 3.31
Cooling						
Cooling Capacity	A35W7	kW	5.0 ~ 13.0	5.0 ~ 14.0	7.0 ~ 20.0	9.0 ~ 25.0
Input Power		kW	1.47 ~ 4.56	1.54 ~ 5.00	2.02 ~ 7.02	2.61 ~ 8.77
EER		/	2.85 ~ 3.40	2.80 ~ 3.25	2.85 ~ 3.47	2.85 ~ 3.45
Domestic Hot Water						
Heating Capacity	A20W15-55	kW	7.0 ~ 18.0	8.0 ~ 20.0	10.0 ~ 28.0	15.0 ~ 35.0
Input Power		kW	1.44 ~ 4.14	1.66 ~ 4.71	1.99 ~ 6.36	3.03 ~ 8.05
COP		W/W	4.35 ~ 4.85	4.25 ~ 4.82	4.40 ~ 5.02	4.35 ~ 4.95
Power Supply						
Power Supply		V / Hz	220V-240V ~ / 50/60Hz		380-415V/3N ~ / 50Hz	
Max. input power		kW	7.7	8.2	13.5	17.4
Max. OP Current		A	32	34	20	27
ERP(Average Climate Water Outlet 35°C)		/	A + + +	A + + +	A + + +	A + + +
ERP(Average Climate Water Outlet 55°C)		/	A + +	A + +	A + +	A + +
Sound pressure level at 1 meter		dB(A)	53	54	53	54
Sound power level		DB	67	68	67	68
Refrigerant Type		--	R32	R32	R32	R32
Compressor		Type	DC Inverter Dual-Rotor			
Expansion Device		Type	Electronic Expansion Valve			
Air Side Heat Exchanger		Type	Hydrophilic Aluminum Foil Fin Heat Exchanger			
Fan Motor		Type	Brushless DC motor			
		Number	2			
		Air Discharge Direction	Side Discharge			
Water Side Heat Exchanger		Type	Plate Heat Exchanger			
Operating temp. range		°C	-35 ~ 45			
Temp. Range of Heating		°C	25~58			
Temp. Range of Cooling		°C	5~25			
Temp. Range of DHW		°C	40~55			
Water Connection Specifications		/	G1" Female Thread(DN25)	G1" Female Thread(DN25)	G1-1/4" Female Thread(DN32)	G1-1/4" Female Thread(DN32)
Water Flow Rate		m³ / h	3.1	3.44	4.47	6.02
Water-side pressure loss		kPa	35	35	40	45
Product Dimensions (L×W×H)		mm	1040×445×1350	1040×445×1350	1140×455×1580	1140×455×1580
N.W		kg	140	145	167	171

Remarks:

1. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;
2. Heating A7W45 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;
3. Heating A7W55 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 47°C, outlet water temperature 55°C;
4. Cooling condition: (DB/WB)=35°C/24°C, inlet water temperature 12°C, outlet water temperature 7°C;
5. DHW Heating capacity conditions : (DB/WB) =20°C/15°C,Initial water temperature 15°C, Termination water temperature 55°C
- 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-100URII	BKFXFC-150URII	BKFXFC-200URII	
Heating								
Heating Capacity	A7W35	kW	13.0 ~ 45.0	22.0 ~ 70.0	26.0 ~ 100.0	40.0 ~ 150.0	50.0 ~ 200.0	
Input Power		kW	2.52 ~ 10.00	4.25 ~ 15.91	5.02 ~ 22.73	7.80 ~ 33.86	9.65 ~ 49.75	
COP		W/W	4.50 ~ 5.15	4.40 ~ 5.18	4.40 ~ 5.18	4.43 ~ 5.13	4.02 ~ 5.18	
Heating Capacity	A7W45	kW	13.0 ~ 45.0	22.0 ~ 70.0	26.0 ~ 100.0	40.0 ~ 150.0	50.0 ~ 200.0	
Input Power		kW	3.13 ~ 12.68	5.31 ~ 19.89	6.28 ~ 28.41	9.55 ~ 42.74	12.08 ~ 62.11	
COP		W/W	3.55 ~ 4.16	3.52 ~ 4.14	3.52 ~ 4.14	3.51 ~ 4.19	3.22 ~ 4.14	
Heating Capacity	A7W55	kW	13.0 ~ 45.0	22.0 ~ 70.0	26.0 ~ 100.0	40.0 ~ 150.0	50.0 ~ 200.0	
Input Power		kW	3.93 ~ 15.79	6.49 ~ 24.48	7.81 ~ 35.34	11.80 ~ 52.45	15.20 ~ 72.46	
COP		W/W	2.85 ~ 3.31	2.86 ~ 3.39	2.83 ~ 3.33	2.86 ~ 3.39	2.76 ~ 3.29	
Cooling								
Cooling Capacity	A35W7	kW	11.0 ~ 30.0	20.0 ~ 55.0	22.0 ~ 65.0	35.0 ~ 110.0	43.0 ~ 120.0	
Input Power		kW	3.19 ~ 10.53	5.78 ~ 20.00	6.36 ~ 24.07	10.12 ~ 39.57	12.43 ~ 43.64	
EER		/	2.85 ~ 3.45	2.75 ~ 3.46	2.70 ~ 3.46	2.78 ~ 3.46	2.75 ~ 3.46	
Domestic Hot Water								
Heating Capacity	A20W15-55	kW	15.0 ~ 50.0	25.0 ~ 80.0	30.0 ~ 120.0	45.0 ~ 180.0	55.0 ~ 200.0	
Input Power		kW	3.03 ~ 11.49	5.05 ~ 18.60	6.06 ~ 27.91	8.74 ~ 41.38	10.56 ~ 47.62	
COP		W/W	4.35 ~ 4.95	4.30 ~ 4.95	4.30 ~ 4.95	4.35 ~ 5.15	4.20 ~ 5.21	
Power Supply			V / Hz	380-415/3N ~ /	380-415/3N ~ /	380-415/3N ~ /	380-415/3N ~ /	380-415/3N ~ /
Max. input power			kW	23	36	52	72	98
Max. OP Current			A	35	55	80	110	150
ERP(Average Climate Water Outlet 35°C)			/	A+++	A+++	A+++	A+++	A+++
ERP(Average Climate Water Outlet 55°C)			/	A++	A++	A++	A++	A++
Sound pressure level at 1 meter			dB(A)	59	61	64	66	69
Sound power level			DB	73	75	78	80	83
Refrigerant Type			--	R32	R32	R32	R32	R32
Compressor	Type	/	Inverter	Inverter	Inverter	Inverter	Inverter	
	Number	/	1	2	2	2	4	
Expansion Device			Type	/	Electronic Expansion Valve			
Air Side Heat Exchanger			Type	/	Hydrophilic Aluminum Foil Fin Heat Exchanger			
Fan Motor	Type	/	EC motor					
	Number	/	1	2	2	2	2	
	Air Discharge Direction		/	Top Discharge				
Water Side Heat Exchanger		Type	/	Plate Heat Exchanger/High-efficiency tank				
Operating temp. range			°C	-35 ~ 45				
Temp. Range of Heating			°C	25~55				
Temp. Range of Cooling			°C	5~25				
Temp. Range of DHW			°C	40~55				
Water Connection Specifications			/	G 1.5" Female	DN65 Flange	DN65 Flange	DN80 Flange	DN80 Flange
Water Flow Rate			m³ / h	7.74	12.04	17.2	25.8	34.4
Water-side pressure loss			kPa	35	30	45	45	45
Product Dimensions (L×W×H)			mm	905×905×1535	2000×900×1950	2000×900×1950	2250×1350×2400	2200×1400×2400
N.W.			kg	265	600	800	1200	1250

Remarks:

1. Heating A7W35 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 30°C, outlet water temperature 35°C;

2. Heating A7W45 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 40°C, outlet water temperature 45°C;

3. Heating A7W55 condition: (DB/WB)= 7°C/ 6°C, inlet water temperature 47°C, outlet water temperature 55°C;

4. Cooling condition: (DB/WB)=35°C/24°C, inlet water temperature 12°C, outlet water temperature 7°C;

5. DHW Heating capacity conditions : (DB/WB) =20°C/15°C,Initial water temperature 15°C, Termination 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-type) Heat Pump

Model			QBKFxFC-006SRI	QBKFxFC-009SRI	QBKFxFC-012SRI	QBKFxFC-014SRI
Heating						
Heating Capacity	A7W35	kW	2.5 ~ 6.0	3.0 ~ 9.0	4.5 ~ 12.0	5.5 ~ 14.0
Input Power		kW	0.51 ~ 1.32	0.61 ~ 1.99	0.90 ~ 2.67	1.10 ~ 3.04
COP		W/W	4.53 ~ 4.90	4.53 ~ 4.93	4.50 ~ 5.00	4.60 ~ 5.00
Heating Capacity	A7W45	kW	2.5 ~ 6.0	3.0 ~ 9.0	4.5 ~ 12.0	5.5 ~ 14.0
Input Power		kW	0.59 ~ 1.71	0.71 ~ 2.56	1.05 ~ 3.42	1.28 ~ 3.97
COP		W/W	3.51 ~ 4.26	3.52 ~ 4.23	3.51 ~ 4.28	3.53 ~ 4.30
Heating Capacity	A7W55	kW	2.5 ~ 6.0	3.0 ~ 9.0	3.5 ~ 10.0	5.5 ~ 14.0
Input Power		kW	0.72 ~ 2.06	0.95 ~ 3.10	1.09 ~ 3.45	1.73 ~ 4.83
COP		W/W	2.91 ~ 3.46	2.90 ~ 3.15	2.90 ~ 3.20	2.90 ~ 3.18
Cooling						
Cooling Capacity	A35W7	kW	2.0 ~ 5.0	2.5 ~ 7.0	4.5 ~ 12.0	5.0 ~ 12.0
Input Power		kW	0.55 ~ 1.71	0.74 ~ 2.48	1.36 ~ 4.24	1.47 ~ 4.21
EER		/	2.92 ~ 3.62	2.82 ~ 3.40	2.83 ~ 3.30	2.85 ~ 3.40
Domestic Hot Water						
Heating Capacity	A20W15-55	kW	3.5 ~ 8.0	4.0 ~ 10.0	4.5 ~ 14.0	5.5 ~ 16.0
Input Power		kW	0.70 ~ 1.90	0.83 ~ 2.31	0.93 ~ 3.22	1.11 ~ 3.64
COP		W/W	4.20 ~ 5.01	4.32 ~ 4.80	4.35 ~ 4.85	4.40 ~ 4.95
ERP(Average Climate Water Outlet 35℃)		/	A + + +	A + + +	A + + +	A + + +
ERP(Average Climate Water Outlet 55℃)		/	A + +	A + +	A + +	A + +
Outdoor unit						
Operating temp. range		℃	-35 ~ 45			
Power Supply		V / Hz	220-240V ~ / 50Hz			
Max. input power		kW	3.8	4.8	5.5	7.2
Max. OP Current		A	16	20	23	30
Sound pressure level at 1 meter		dB(A)	43	51	51	52
Sound power level		DB	57	65	65	66
Refrigerant Type		--	R32	R32	R32	R32
Expansion Device	Type	/	DC Inverter Dual-Rotor			
	Brand		Panasonic/GMCC			
Expansion Device	Type	/	Electronic Expansion Valve			
Air Side Heat Exchanger	Type	/	Hydrophilic Aluminum Foil Fin Heat Exchanger			
Fan Motor	Type	/	Brushless DC motor			
	Number	/	1			2
	Air Discharge Direction		Side Discharge			
Product Dimensions (L×W×H)		mm	1075×480×805	1075×480×805	995×445×1000	1040×445×1350
N.W.		kg	80	93	105	135
Indoor unit						
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger			
Water-side pressure loss		/	DN25	DN25	DN25	DN25
Water Flow Rate		m³ / h	1.38	1.72	2.41	2.75
Water-side pressure loss		kPa	25	25	25	35
Temp. Range of Heating		℃	25~58			
Temp. Range of Cooling		℃	5~25			
Temp. Range of DHW		℃	40~55			
Sound pressure level at 1 meter		dB(A)	40	41	41	42
Sound power level		DB	54	55	55	56
Product Dimensions (L×W×H)		mm	570×330×770	570×330×770	570×330×770	570×330×920
N.W.		kg	30	35	40	45

Remarks:

1. Heating A7W35 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 30℃, outlet water temperature 35℃;
2. Heating A7W45 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 40℃, outlet water temperature 45℃;
3. Heating A7W55 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 47℃, outlet water temperature 55℃;
4. Cooling condition: (DB/WB)=35℃/24℃, inlet water temperature 12℃, outlet water temperature 7℃;
5. DHW Heating capacity conditions : (DB/WB) =20℃/15℃,Initial water temperature 15℃, Termination Water temperature 55℃.

Heating Cooling & DHW (Split-type) Heat Pump

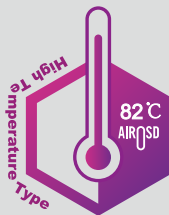
Model			QBKFXFC-016SRI	QBKFXFC-018SRI	QBKFXFC-024SRII	QBKFXFC-030SRII
Heating						
Heating Capacity	A7W35	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.21 ~ 3.53	1.34 ~ 4.14	1.75 ~ 5.22	1.96 ~ 6.52
COP		W/W	4.53 ~ 4.96	4.35 ~ 4.85	4.60 ~ 5.14	4.60 ~ 5.10
Heating Capacity	A7W45	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.40 ~ 4.56	1.54 ~ 5.22	2.08 ~ 6.84	2.33 ~ 8.72
COP		W/W	3.51 ~ 4.30	3.45 ~ 4.21	3.51 ~ 4.32	3.44 ~ 4.30
Heating Capacity	A7W55	kW	6.0 ~ 16.0	6.5 ~ 18.0	9.0 ~ 24.0	10.0 ~ 30.0
Input Power		kW	1.89 ~ 5.52	2.06 ~ 6.43	2.70 ~ 8.33	3.02 ~ 10.53
COP		W/W	2.90 ~ 3.18	2.80 ~ 3.15	2.88 ~ 3.33	2.85 ~ 3.31
Cooling						
Cooling Capacity	A35W7	kW	5.0 ~ 13.0	5.0 ~ 14.0	7.0 ~ 20.0	9.0 ~ 25.0
Input Power		kW	1.47 ~ 4.56	1.54 ~ 5.00	2.02 ~ 7.02	2.61 ~ 8.77
EER		/	2.85 ~ 3.40	2.80 ~ 3.25	2.85 ~ 3.47	2.85 ~ 3.45
Domestic Hot Water						
Heating Capacity	A20W15-55	kW	7.0 ~ 18.0	8.0 ~ 20.0	10.0 ~ 28.0	15.0 ~ 35.0
Input Power		kW	1.44 ~ 4.14	1.66 ~ 4.71	1.99 ~ 6.36	3.03 ~ 8.05
COP		W/W	4.35 ~ 4.85	4.25 ~ 4.82	4.40 ~ 5.02	4.35 ~ 4.95
ERP(Average Climate Water Outlet 35℃)		/	A + + +	A + + +	A + + +	A + + +
ERP(Average Climate Water Outlet 55℃)		/	A + +	A + +	A + +	A + +
Outdoor unit						
Operating temp. range		℃	-35 ~ 45			
Power Supply		V / Hz	220-240V ~ / 50Hz		380-415V/3N ~ / 50Hz	
Max. input power		kW	7.7	8.2	13.5	17.4
Max. OP Current		A	32	34	20	27
Sound pressure level at 1 meter		dB(A)	53	54	53	54
Sound power level		DB	67	68	67	68
Refrigerant Type		--	R32	R32	R32	R32
Expansion Device	Type	/	DC Inverter Dual-Rotor			
	Brand		Panasonic/GMCC			
Expansion Device	Type	/	Electronic Expansion Valve			
Air Side Heat Exchanger	Type	/	Hydrophilic Aluminum Foil Fin Heat Exchanger			
Fan Motor	Type	/	Brushless DC motor			
	Number	/	2			
	Air Discharge Direction		Side Discharge			
Product Dimensions (L×W×H)		mm	1040×445×1350	1040×445×1350	1140×455×1580	1140×455×1580
N.W.		kg	140	145	167	171
Indoor unit						
Water Side Heat Exchanger	Type	/	Plate Heat Exchanger			
Water-side pressure loss		/	DN25	DN25	DN32	DN32
Water Flow Rate		m³ / h	3.1	3.44	4.47	6.02
Water-side pressure loss		kPa	35	35	40	45
Temp. Range of Heating		℃	25~58			
Temp. Range of Cooling		℃	5~25			
Temp. Range of DHW		℃	40~55			
Sound pressure level at 1 meter		dB(A)	43	44	48	51
Sound power level		DB	57	58	62	65
Product Dimensions (L×W×H)		mm	570×330×920	570×330×920	620×345×970	620×345×970
N.W.		kg	50	54	60	65

Remarks:

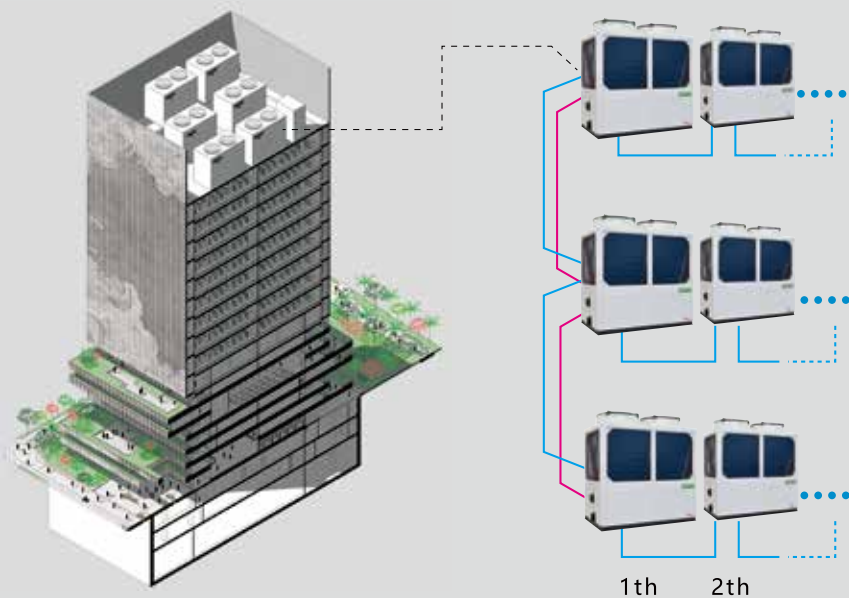
1. Heating A7W35 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 30℃, outlet water temperature 35℃;
2. Heating A7W45 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 40℃, outlet water temperature 45℃;
3. Heating A7W55 condition: (DB/WB)= 7℃/ 6℃, inlet water temperature 47℃, outlet water temperature 55℃;
4. Cooling condition: (DB/WB)=35℃/24℃, inlet water temperature 12℃, outlet water temperature 7℃;
5. DHW Heating capacity conditions : (DB/WB) =20℃/15℃,Initial water temperature 15℃, Termination Water temperature 55℃.

Commercial Application

New Low Carbon Energy Saving Options For Smart Buildings



R417A High Temp.DC Inverter Commercial Heat Pump



Basis Energy Services

BKFXFC-045UCII			
Power Supply		/	380-415V /3N ~ / 50Hz
Operating temp. range		°C	-30 ~ 43
Heating Capacity			
A15W65	Heating Capacity	kW	50.0
	Power Supply	kW	18
	COP	W/W	2.85
A7W65	Heating Capacity	kW	45.0
	Power Supply	kW	17
	COP	W/W	2.65
A7W55	Heating Capacity	kW	45.0
	Power Supply	kW	15.0
	COP	W/W	3.0
A-5W65	Heating Capacity	kW	45.0
	Power Supply	kW	20
	COP	W/W	2.25
A-10W70	Heating Capacity	kW	40.0
	Power Supply	kW	21
	COP	W/W	1.95
A-10W65	Heating Capacity	kW	43.0
	Power Supply	kW	20
	COP	W/W	2.18
A-15W65	Heating Capacity	kW	38.0
	Power Supply	kW	220V-240V ~ / 50/60Hz
	COP	W/W	2.11
A-20W65	Heating Capacity	kW	32.2
	Power Supply	kW	16
	COP	W/W	2.06
Accessories information			
Compressor	Type	/	EVI DC Inverter
	Brand	/	HITACHI
	Number	set	2
FAN	Type	/	Inverter
	Number	set	2
	Air Discharge Direction	/	Top Discharge
Air Side Heat Exchanger		Type	Hydrophilic Aluminum Foil Fin Heat Exchanger
Water Side Heat Exchanger		Type	Plate Heat Exchanger
Max .Op Current		A	50
Refrigerant		/	R417A
Max.Water Output Temp.		°C	70
Pipe Work			
Water Connection Specifications		/	2×DN65 Flange
Maximum Water Pressure		MPa	1
Water Flow Rate		m³/h	7.7
Water-side pressure loss		kPa	≤50
Sound pressure level at 1 meter		dB(A)	65
Packing Information			
Product Dimensions (L×W×H)		mm	2018×988×1896
Package Dimensions (L×W×H)		mm	2110*1080*2100
Net Weight		kg	620
Packing Weight		kg	650

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





WIFI Adopted



Cascade Control



Quiet Operation



Intelligent Controller

High Temp. Commercial Monobloc Heat Pump



				
Model			BKFXFC-045UXII	BKFXFC-090UXII
Power Supply		/	415V 3N ~ 50Hz	415V 3N ~ 50Hz
Operating temp. range		°C	-10 ~ 43	-10 ~ 43
Heating Capacity				
A7W70-75	Heating Capacity	kW	45	90
	COP	W/W	2.15	2.15
A7W70-80	Heating Capacity	kW	45	90
	COP	W/W	1.76	1.76
A-4W70-75	Heating Capacity	kW	36	72
	COP	W/W	1.78	1.78
A-4W70-80	Heating Capacity	kW	36	72
	COP	W/W	1.51	1.51
Technical Data				
Max .Op Current		A	50	100
Max.Water Output Temp.		°C	80	80
Compressor	Brand	/	Hitachi	Hitachi
	Type	/	EVI Inverter	EVI Inverter
	Number	pcs	2	4
Refrigerant Type		/	R513A	R513A
Fan Number		pcs	2	2
Pipe Work				
Water Connection Specifications		/	2×DN65	2×DN80
Maximum Water Pressure		MPa	1	1
Water Flow Rate	Temp. Difference 5°C	m³/h	7.7	15.5
	Temp. Difference 10°C	m³/h	3.9	7.7
Water-side pressure loss		kPa	≤50	≤50
Sound pressure level at 1 meter		dB(A)	60	70
Packing Information				
Packing Dimension (W×D×H)		mm	2020×990×1950	2200×1400×2400
Net Weight		kg	650	1150

Remarks:
Heating conditions A7W70-75 : outdoor air temp. 7°C DB/6°C WB, inlet water temp. 70°C, outlet water temp. 75°C.
Heating conditions A-4W70-75 : outdoor air temp. -4°C DB/-5°C WB, inlet water temp. 70°C, outlet water temp. 75°C.

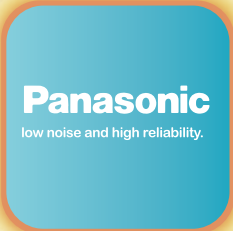
R32 Inverter Ground Source Heat Pump

Heating Cooling & DHW



Model		BSFXK-006RI	BSFXK-010RI	BSFXK-012RI	BSFXK-018RI	BSFXK-025RII	BSFXK-030RII
Power Supply	/	220-240V ~ / 50Hz				380-415V /3N ~ / 50Hz	
Heat Source Temperature Range	℃	5~35	5~35	5~35	5~35	5~35	5~35
Heating Capacity							
Rated Heating Capacity	kW	6.30	10.00	12.00	18.00	25	30.00
Rated Heating Input Power	kW	1.58	2.50	3.00	4.50	6.25	7.50
COP	/	4.00	4.00	4.00	4.00	4	4.00
Maximum Operating Current	A	12	18	18	34	20	25
Refrigerant	/	R32	R32	R32	R32	R32	R32
Outlet Water Temp.	℃	25~60	25~60	25~60	25~60	25~60	25~60
Sound pressure level at 1 meter	dB(A)	≤50	≤50	≤50	≤52	≤52	≤55
Use Side Heat Exchanger							
Water Side Heat Exchanger	Type	Plate heat exchanger					
Water Pressure Loss (Max.)	kPa	≤30	≤50	≤50	≤50	≤50	≤50
Water Port Size	/	2×DN20	2×DN25	2×DN25	2×DN25	2×DN40	2×DN40
Water Flow Rate	m3/h	1.08	1.72	2.06	3.1	5.16	5.16
Heat Source Side Heat Exchanger							
Water Side Heat Exchanger	Type	Plate heat exchanger					
Water Pressure Loss (Max.)	kPa	≤30	≤50	≤50	≤50	≤50	≤50
Water Port Size	/	2×DN20	2×DN25	2×DN25	2×DN25	2×DN40	2×DN40
Water Flow Rate	m3/h	0.81	1.26	1.51	2.27	3.78	3.78
Packing Information							
Product Dimensions (L×W×H)	mm	740×490×590	740×490×590	740×490×590	930×690×905	930×690×905	930×690×905
N.W	KG	60	70	75	100	120	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 datas are subject to change without prior notice, please take the nameplate as standard.



Eco-Friendly



DC Inverter



Wi-Fi Control

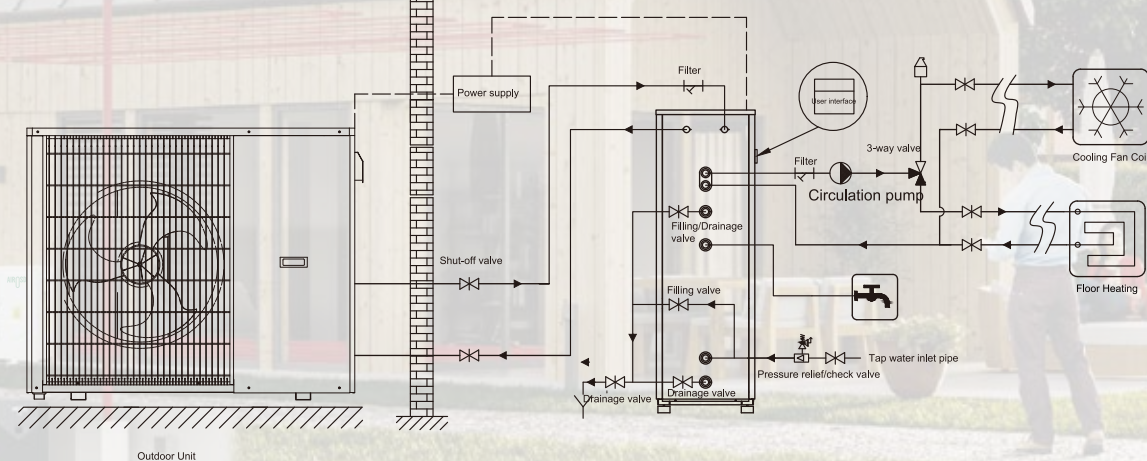
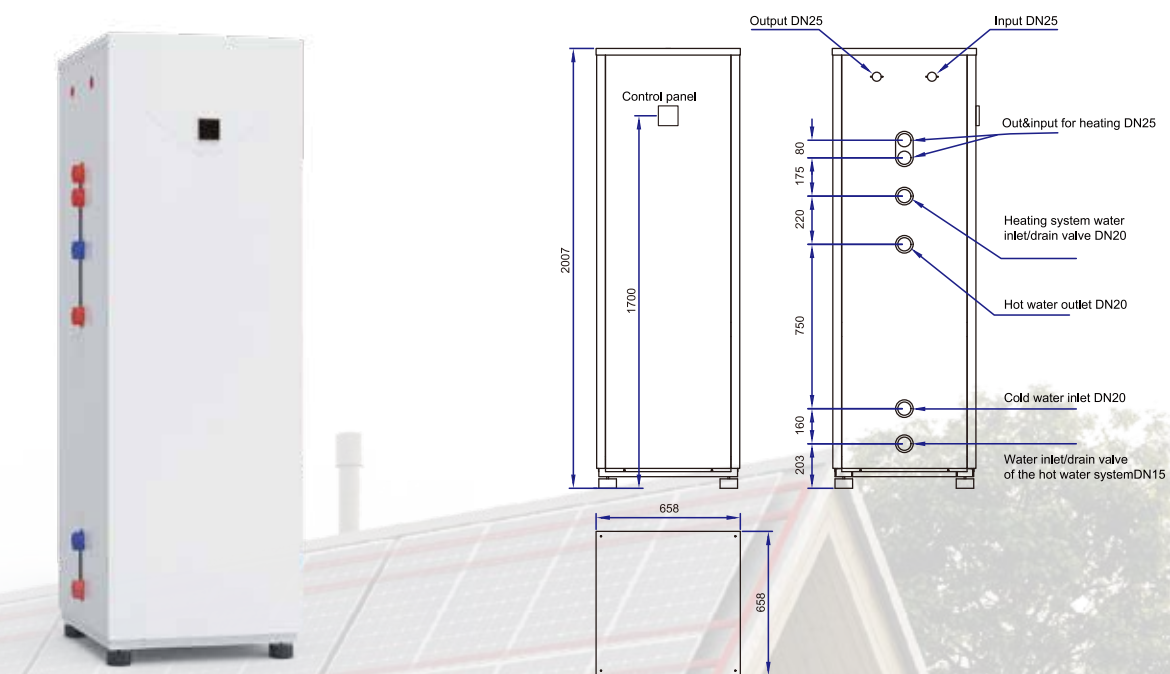
BSFXK-100RII			
Operating temp. range	℃	10~40	
Heating capacity	kw	80	
Rated cooling input power	kW	16	
Rated cooling energy efficiency	COP	5	
Maximum operating current	A	70	
Noise	dB(A)	≤60	
Power Specifications	/	380V~ 3N 50Hz	
Compressor	/	Hitachi Compressor	
Refrigerant	/	R410A/R32	
Use side heat 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