

KÖNNEN 创能

WATER SOURCE HEAT PUMP WATER HEATER W02H Series





Hotel/ School/ Hospital/ Villa/ Club, Etc.

INTEGRATED WATER SOURCE HEAT PUMP WATER HEATER W02H

● System Integration

Corrosion-resistant & anti-blocking heat exchanger special for water source heat pump, professional compressor, ensure the unit stable operation under changes of water quality and temperature. Meanwhile, effectively extend the unit lifetime.

● Safety Integration

Unit has multiple protection features: anti-freezing protection, compressor over heat protection, reverse phase protection, lack of phase protection, high and low pressure protection, overload protection, high temperature protection, water flow protection, time delay protection, etc., to provide water of the project under 100% security.

● Energy Saving Integration

Use the earth stored "energy" as heat source, adopt the professional heat pump technology, select special components for water source heat pump, improve the heat pump unit "heat absorption", reduce "heat island effect", meanwhile improve the unit energy efficiency.

● Intelligent Integration

Microcomputer control, automatic detection and adjustment of water temperature, the user simply start switch button, then all the operations carried out by the unit automatically; automatically detect the operation of the various components, and feedback to the controller, thus greatly facilitate the judgment and checking of the unit operation.

W02H series (water source heat pump water heater)

RYF-W02HCY01-130514

		CSFXRS-8I	CSFXRS-12I	CSFXRS-20I	CSFXRS-12II	CSFXRS-20II	CSFXRS-28II	CSFXRS-40II	
		CW02H020A	CW02H030A	CW02H050A	CW02H030B	CW02H050A	CW02H070A	CW02H100A	
Rated heating capacity(kW)		8	12	20	12	20	28	40	
Rated power(kW)		1.6	2.4	4.2	2.5	4.2	5.6	9.0	
Rated current(A)		8.4	12.8	21.7	4.7	7.8	10.5	16.0	
Maximum power(kW)		2.2	3.3	5.6	3.4	5.6	7.6	11.9	
Maximum current(A)		11.4	17.2	29.3	6.4	10.6	14.3	23.8	
Performance coefficient(COP)		5.0	4.9	4.8	4.8	4.8	5.0	4.4	
Rated hot water produce capacity(L/h)		172	258	430	258	430	602	860	
Rated hot water output temperature (C)		55							
Maximum hot water output temperature (C)		60							
Power supply		1N 220V/50Hz				3N 380V/50Hz			
Compressor	Type	Rotor type		Fully colsed scroll type					
	Start mode	Direct							
Use side heat exchanger	Type	Shell & tube heat exchanger							
	Water flow (m³/h)	1.4	2.1	3.4	2.1	3.4	4.8	6.9	
	Water pressure drop (kPa)	≤50	≤50	≤50	≤50	≤50	≤50	≤50	
	Pipe connection (DN)	20	25	25	25	25	25	32	
	Pipe type	Inner thread							
Heat source side heat exchanger	Type	Shell & tube heat exchanger							
	Water flow (m³/h)	1.1	1.6	2.7	1.6	2.7	3.8	5.4	
	Water pressure drop (kPa)	≤50	≤50	≤50	≤50	≤50	≤50	≤50	
	Pipe size (DN)	20	25	25	25	25	25	32	
	Pipe connection	Inner thread							
Protections		1. High and low pressure protection, 2. Anti-freeze protection, 3. High temperature protection, 4. Overload protection, 5. Reverse of phase protection, Lack of phase protection, etc.							
Refrigerant	Type	R410A							
	Quantity(kg)	1.6	1.9	2.8	1.9	2.8	3	2.8x2	
Noise [≤DB (A)]		51	52	55	52	55	58	58	
Unit dimensions	Length(mm)	710	810	810	810	810	810	1100	
	Width(mm)	360	420	420	420	420	420	840	
	Height(mm)	590	590	590	590	590	590	800	
Weight (kg)		55	65	93	65	93	128	180	

- ⚠ 1.Hot water heating standard condition: use side initial water temperature 15°C, end water temperature 55°C; heat source side water input temperature 15°C.
2. The above parameters are based on refrigerant R410A, for parameters based on other refrigerant please contact us.

The above parameters may have some differences from the final product because of products updating, so above information is not the provision of any business contract. Please refer to final product lable when buy, or refer to us for any information. Our company keeps the right to interpret.

W02H series (water source heat pump water heater)

RYF-W02HCY01-130514

	CSFXRS-55II	CSFXRS-80II	CSFXRS-95II	CSFXRS-120II	CSFXRS-145II	CSFXRS190II	
	CW02H140A	CW02H200A	CW02H240A	CW02H300A	CW02H360A	CW02H480A	
Rated heating capacity(kW)	55	80	95	120	145	190	
Rated power(kW)	11.6	16.0	19.4	24.9	29.6	38.8	
Rated current(A)	20.9	30.1	36.4	46.1	55.6	72.9	
Maximum power(kW)	15.0	21.6	26.2	33.6	39.9	52.3	
Maximum current(A)	26.8	40.8	49.4	60.6	75.5	98.9	
Performance coefficient(COP)	4.7	5.0	4.9	4.8	4.9	4.9	
Rated hot water produce capacity(L/h)	1182	1720	2043	2580	3118	4085	
Rated hot water output temperature(C)	55						
Maximum hot water output temperature(C)	60						
Power supply	3N 380V/50Hz						
Compressor	Type	Fully colsed scroll type					
	Start mode	Direct					
Use side heat exchanger	Type	Shell & tube heat exchanger					
	Water flow (m³/h)	9.4	13.8	16.3	20.6	24.9	32.7
	Water pressure drop (kPa)	≤60	≤60	≤70	≤70	≤70	≤70
	Pipe size (DN)	50	50	50	65	65	65
Heat source side heat exchanger	Type	Shell & tube heat exchanger					
	Water flow (m³/h)	7.3	10.7	12.7	16.1	19.4	25.5
	Water pressure drop (kPa)	≤60	≤60	≤70	≤70	≤70	≤70
	Pipe size (DN)	50	50	50	65	65	65
Protections	1. High and low pressure protection, 2. Anti-freeze protection, 3. High temperature protection, 4. Overload protection, 5. Reverse of phase protection, Lack of phase protection, etc.						
	Refrigerant	R410A					
Noise [≤DB (A)]	Type	R410A					
	Quantity(kg)	6.5x2	8x2	8.7x2	12x2	7.8x4	8.7x4
Unit dimensions	Length(mm)	1100	1800	1800	1800	2000	2000
	Width(mm)	840	1150	1150	1150	1200	1200
	Height(mm)	800	1050	1050	1050	1000	1000
Weight (kg)	220	700	730	780	850	880	

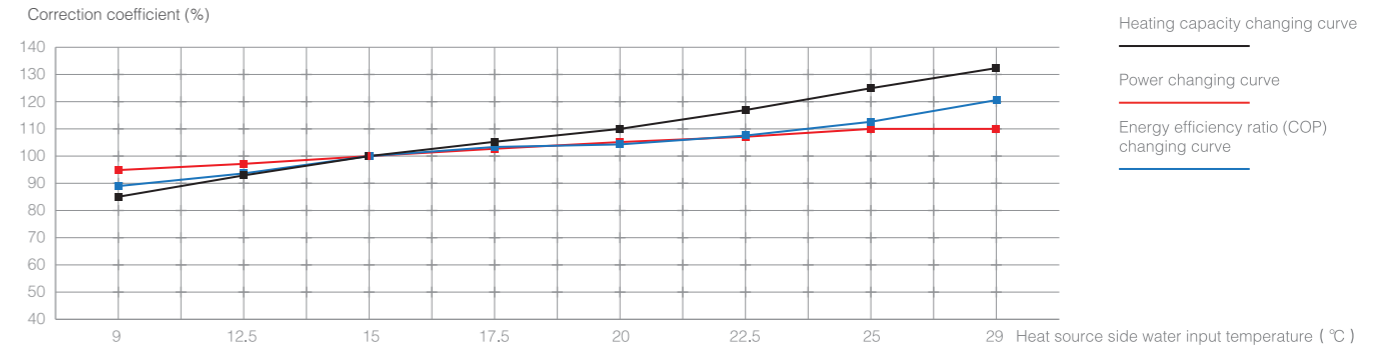
- ⚠ 1. Hot water heating standard condition: use side initial water temperature 15°C, end water temperature 55°C; heat source side water input temperature 15°C.
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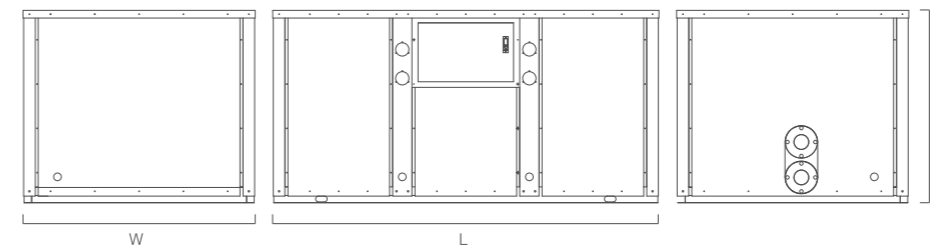
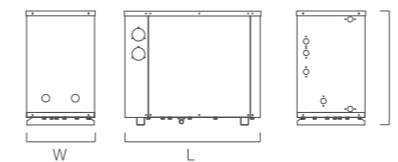
Heating performance correction coefficient (%)

Heat source side water input temperature(C)	9	12.5	15	17.5	20	22.5	25	29
Heating capacity (%)	85.0	92.0	100	105.0	110.0	117.0	125.0	133.0
Power (%)	95.0	98.0	100	102.0	105.0	108.0	110.0	110.0
Energy efficiency ratio(COP) (%)	89.5	93.9	100	102.9	104.8	108.3	113.6	120.9

Heating performance correction coefficient changing curve



Product Dimensions



W02H series	
Model	Dimensions (L x W x H)
CSFXRS-8 I	710x360x590
CSFXRS-12 I (II)	810x420x590
CSFXRS-20 I (II)	810x420x590
CSFXRS-28 II	810x420x590
CSFXRS-40(55) II	1100x840x800

W02H series	
Model	Dimensions (L x W x H)
CSFXRS-80 II	1800x1150x1050
CSFXRS-95 II	1800x1150x1050
CSFXRS-120 II	1800x1150x1050
CSFXRS-145(190) II	2000x1200x1000

Running Chart

