Wotech

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WOTECH HEAT PUMP CATALOGUE

About Us

Guangdong WOTECH Renewable Energy & Technology Co., Ltd. was founded in 2005, integrating research and development, manufacturing, marketing and after sales service of heat pumps. WOTECH has three production bases in Shunde, Zhaoqing and Heyuan, covering area of 15 thousands sqm in total.

WOTECH heat pump series include swimming pool heat pump, air source water heater, drying heat pump and ventilation equipments, applied in hotels, restaurants, hospitals, swimming pools, factories, public leisure places, residential district and so on.

In 2016 WOTECH became the first public-listed heat pump company in China with stock code 835751.

WOTECH, with many years of heat pump export experience, sets up a top international quality control system, to achieve the belief of making best quality of heat pumps for global users.

Milestones

2020

WOTECH has been a qualified supplier of heat pumps for “Beijing Coal to Electricity” house heating projects for 5 years.

2019

WOTECH laboratories are accredited by CNAS.

2018

WOTECH is awarded as one of the top 10 heat pump leading brands in China for 5 years.

2016

WOTECH became the first public-listed heat pump company in China.

Subsidiary Longchuan WOTECH

2012

Subsidiary Zhaoqing WOTECH Technology Co., Ltd. was established, covering 100,000 sqm.

Subsidiary Zhaoqing WOTECH

2011

WOTECH production system is UK MCS approved.

2010

Subsidiary Longchuan WOTECH Technology Co., Ltd. was established.

2009

WOTECH was awarded the “Top Ten Brand of Air Source Heat Pump Water Heater” in China.

2007

WOTECH is ISO 9000 and ISO 9001 certified.

2005

WOTECH Electrical Limited was established in Shunde.

Qualification

CNAS Laboratory Accreditation

China National Accreditation Service for Conformity Assessment (CNAS) is the national accreditation body of China unitarily responsible for the accreditation of certification bodies, laboratories and inspection bodies.

The Test Center of WOTECH is accredited in accordance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) by CNAS and wins the Laboratory Accreditation Certification in 2019 which also acquires the international mutual recognition of International Laboratory Accreditation Cooperation (ILAC).

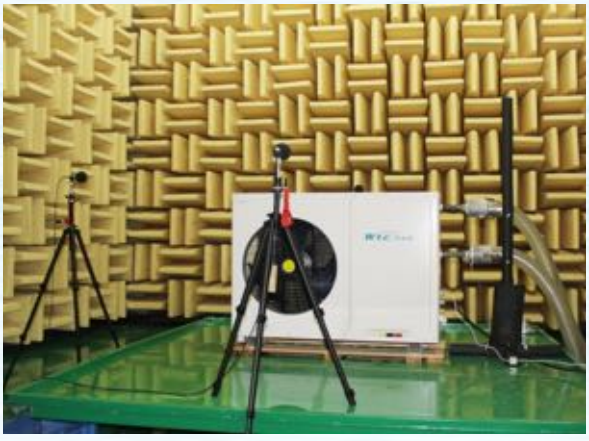
The Test Center of WOTECH is now qualified to provide significant technical underpinning to the calibration, testing and inspection results.


China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE
Test Center of Guangdong Wotech Renewable Energy & Technology Co., Ltd.

Acoustic Chamber

WOTECH is the first brand which owns a acoustic laboratory among the current heat pump professional manufacturers in China. Low level of background noise and high-accuracy test instruments ensure a wide range of testable acoustic pressure level and precise testing results, which guarantees the low noise level of WOTECH products as well.

- Acoustic pressure level range: 20~120dB(A)
- Measurement accuracy: 0.1dB(A)
- Maximum testable heating capacity: 240Kw
- Maximum testable size : 2.5m in width, 2.5m in height



Six Enthalpy Laboratories

Enthalpy Laboratories can simulate the running condition of heat pump under air temperature ranging from –30℃ to 45℃ and water temperature ranging from 0℃ to 65℃.

- Conditioned lab temperature range: **–30～45℃**
- Capable heating capacity testing range: **3Kw～240Kw**
- Air flow range: **15000～66000m³/h**

Reliability Test Chamber

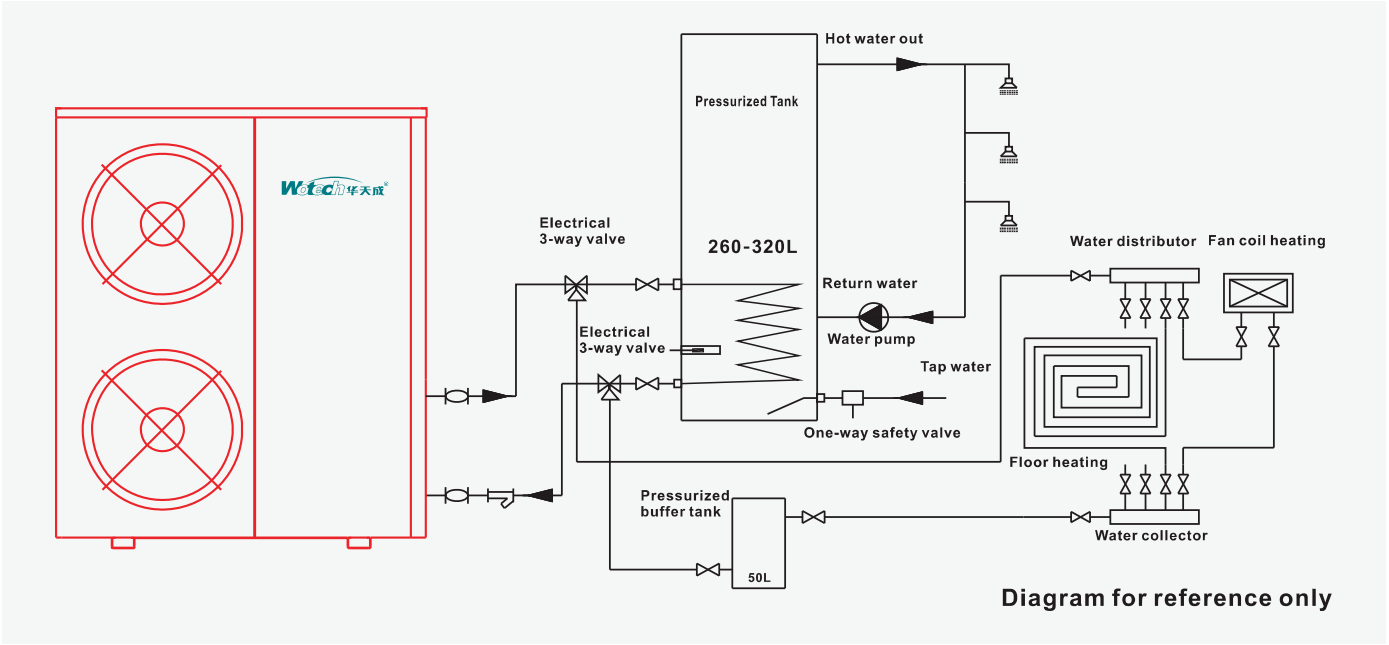
All WOTECH R&D heat pumps will have a non–stop running tests for up to 2000 hours to prove its reliability before mass production. After tested, the performance and reliability of heat pump can be guaranteed in various climates and areas.

Certification

WOTECH
Heat Pump Group

BC-B1 Series

Hot Water Heat Pump



Features:

1.Design suitable for tropical or subtropical region as Southeast Asia, South Africa South Europe and etc.
2.Hot water up to 60°C, suitable for under floor/ radiator heating.
3.Intelligent EE valve, excellent efficiency at different ambient temperature.
4.Plug & play mother board, easy service.
5.Unique fan motor construction, super quiet and efficient.
6.R410a system available.

Technical Parameter

Code			WBC-13.5	WBC-17.0	WBC-19.5
A 7/6°C W 30°C-35°C Measuring Conditions	Heating Capacity	kW	13.55	15.18	19.18
	Input Power	kW	3.23	3.80	4.44
	Running Current	A	14.66	6.79	7.94
	COP	W/W	4.2	4	4.32
A 2/1°C W30-35°C Measuring Conditions	Heating Capacity	kW	10.55	11.83	14.95
	Input Power	kW	3.30	3.70	4.67
	Running Current	A	14.99	6.61	8.36
	COP	W/W	3.20	3.20	3.20
Power Supply		V/PH/Hz	230/1/50	380/3/50	380/3/50
Flow Rate (Delta T=5°C)		m^3/h	2.32	2.92	2.92
Thermostat Factory Setting		℃	55	55	55
Thermostat Maximum Setting		℃	60	60	60
Water Connections		inch	1	1	1
Circulation Pump (GRUNDFOS)		pcs	1	1	1
Compressor Quantity		pcs	1	1	1
Compressor			Copeland Scroll		
Noise		dB(A)	56	57	57
Unit Dimension (L/W/H)		mm	1110/470/930	1110/470/1240	1110/470/1240
Packing Dimension (L/W/H)		mm	1165/485/1030	1165/485/1340	1165/485/1340
Net Weight/Gross Weight		kg	115/120	134/139	139/144

Remarks: Specifications subject to changes without notice

BC-A Series

Hot Water Heat Pump

Features:

1.Unique dual color design, gold fin evaporator, smart and in-fashion.
2.Hot water up to 60°C, suitable for under floor/ radiator heating.
3.Intelligent EE valve, excellent efficiency at different ambient temperature
4.Plug & play mother board, easy service
5.Vertical air discharge, suitable for limited space installation.
6.R410a system available.

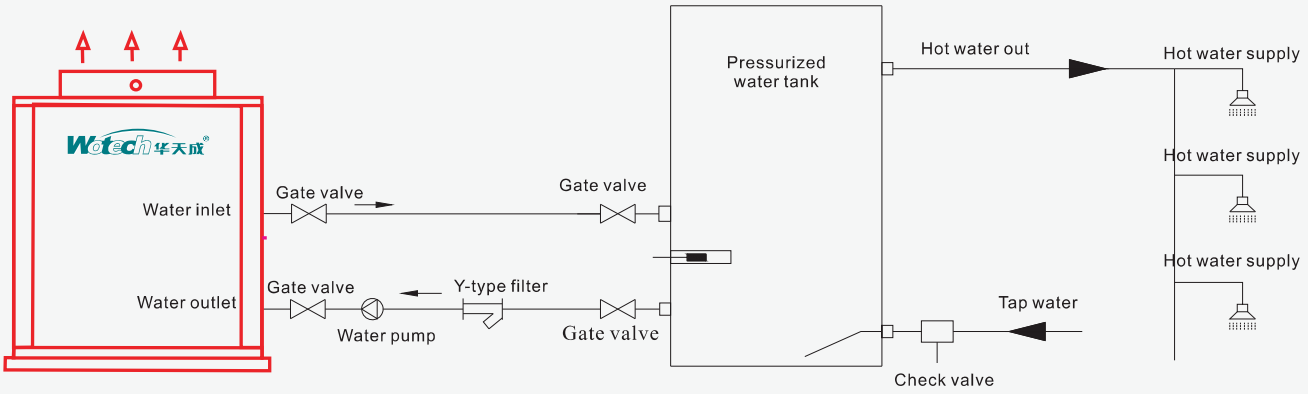


Diagram for reference only

TechnicalParameter

Code		WBC-22	WBC-30	WBC-44	WBC-50	WBC-65	WBC-90
Max Output	KW	22	30	44	50	65	90
Heating Capacity	KW	19.5~21.6	26.5~29.5	39.5~43.5	44.5~48.5	58.5~64.5	85.5~89.6
COP at 55°C		4.3	4.3	4.3	4.3	4.3	4.3
Hot Water Generated	L/h	420	570	850	900	1260	1400
Input Power	KW	4.6	6.2	9.2	10.4	13.6	19.8
Max. Input Power	KW	5.6	8.1	12.1	13.8	16.9	25.3
Running Current	A	8.1	11.1	16.5	18.9	24.3	35.5
Max Running Current	A	10	14.5	21.6	24.7	30.5	45.2
Power Supply	V/PH/Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Compressor	Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Compressor Number		1	1	2	2	3	4
Heat Exchanger Type		High efficiency tube in shell heat exchanger					
Throlttling Device		Electric Expansion Valve(E.E.V)					
Fan Discharge		Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Fan Quantity		1	1	2	2	3	3
Fan Input	W	250	250	250*2	250*2	250*3	250*3
Fan Speed	RPM	850	850	850*2	850*2	850*3	850*3
Refrigerant		R410a	R410a	R410a	R410a	R410a	R410a
Low-Pressure Protection		Yes	Yes	Yes	Yes	Yes	Yes
High-Pressure Protection		Yes	Yes	Yes	Yes	Yes	Yes
Water Flow Switch		Yes	Yes	Yes	Yes	Yes	Yes
Water Flow Rate	m /h	2.5	2.5	5	6.5	7.3	7.3
Thermostat Factory Setting	℃	55	55	55	55	55	55
Thermostat Maximum Setting	℃	60	60	60	60	60	60
Water Connections	inch	G 1"	G 1"	G 1-1/2"	G 1-1/2"	G 2"	G 3"
Water-side pressure loss	Kpa	40	40	40	70	75	80
Water proof level		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Working Air Temp. Range	℃	-10-45	-10-45	-10-45	-10-45	-10-45	-10-45
Noise	dB(A)	56	59	59	60	60	62
Cabinet		Metal Casing with Powder Coated					
Unit Dimension(mm)	mm	820*820*1160	874*820*1360	1570*820*1165	1570*820*1165	2150*764*1402	2150*1000*1920
Packing Dimension(mm)	mm	860*860*1175	950*920*1520	1610*876*1340	1610*876*1410	2210*805*1550	2250*1070*2070
Net weight/Gross weight	kg	143/164	160/189	254/300	283/330	421/477	730/780
Heating Measuring Conditions:		Dry bulb 20℃, wet bulb 15℃, water heated from 15℃ to 55℃					

Remarks: Specifications subject to changes without notice

BC-A Series

Hot Water Heat Pump

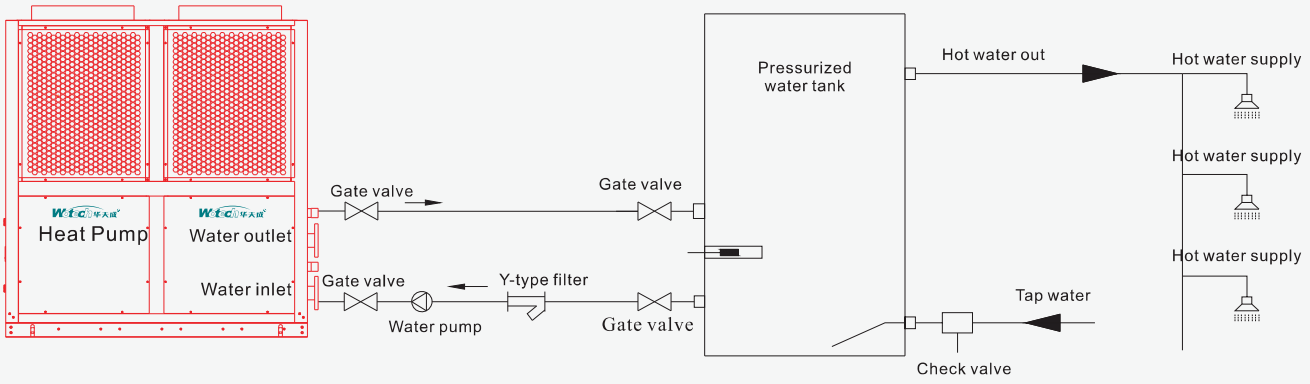


Diagram for reference only

Features:

1、Hot water up to 60°C, suitable for under floor / radiator heating.
2、Branded compressors, durable and long life time.
3、Intelligent EE valve, excellent efficiency at different ambient temperature.
4、Plug & play mother board, easy service.
5、Vertical air discharge & compact design, suitable for limited space installation.
6、R410a available.

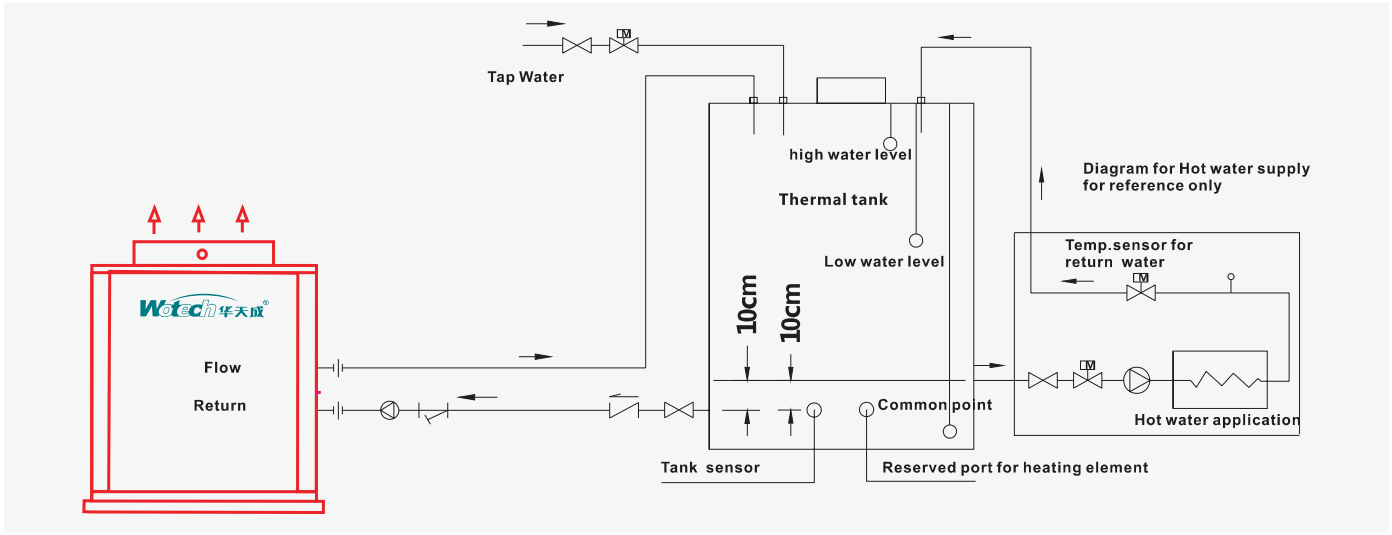
Technical Parameter

Code			WBC-39.5	WBC-58.5	WBC-80.0
A 7/6°C W30-35°C Measuring Conditions	Heating Capacity	kW	32.00	48.00	64.00
	Input Power	kW	7.80	11.71	15.61
	Running Current	A	13.96	20.94	27.92
	COP	W/W	4.1	4.1	4.1
A 2/1°C W30-35°C Measuring Conditions	Cooling Capacity	kW	24.93	37.40	49.87
	Input Power	kW	7.12	10.69	14.25
	Running Current	A	12.74	19.12	25.49
	EEP	W/W	3.50	3.50	3.50
Power Supply		V/PH/Hz		380/3/50	
Flow Rate (Delta T=5°C)		m³/h	6.8	10.1	13.8
Thermostat Factory Setting		℃		55	
Thermostat Maximum Setting		℃		60	
Water Connections		inch	1.5	2	3
Circulation Pump (GRUNDFOS)		pcs	N/A	N/A	N/A
Compressor Quantity		pcs	2	3	4
Compressor				Copeland Scroll	
Noise		dB(A)	62	64	64
Unit Dimension (L/W/H)		mm	1450/730/1060	2150/764/1286	2150/1000/1920
Packing Dimension (L/W/H)		mm	1520/780/1220	2270/830/1423	2250/1070/2070
Net Weight/Gross Weight		kg	250/275	450/508	730/780

BC-H1 Series

High temperature Heat pump

80℃
Ultra High Water Temperature



Features:

1.Hot water up to 80°C, suitable for radiator heating.
2.Stable and efficient performance.
3.Famous COPELAND EVI compressors.
4.Work above 0°C ambient.
5.R134a system, environment friendly.

Technical Parameter

Code			WBC-19.5H-A-S (BC-H1)	WBC-39.5H-A-S (BC-H1)	WBC-80.0H-A-S (BC-H1)
Code			5	10	20
Measuring Conditions A 20℃ A 15℃ W 15-55℃	Heating Capacity	kW	19.5	39.5	80
	Input Power	kW	4.53	9.19	18.60
	Running Current	A	8.11	16.43	33.28
	COP	W/W	4.3	4.3	4.3
Max Input Power		W	6.8	13.8	27.9
Max Input Current		A	12.2	24.6	49.9
Power Supply		V/PH/Hz	380/3/50	380/3/50	380/3/50
Working Range		℃	0~45	0~45	0~45
Water Flow Rate (Delta T5℃)		℃	3.35	6.79	13.76
Rated Water Flow		m^3/h	420	850	1720
Water Pressure Loss		Kpa	40	80	120
Rated Flow Temperature		℃	55	55	55
Max Flow Temperature		℃	80	80	80
Water Connections		inch	G1	G1.5	G2.5
Pump		pc	/	/	/
Compressor		pc	1	2	4
Fan		pc	1	2	3
Noise		dB(A)	60	65	68
Net Dimension (L/W/H)		mm	820/820/1160	1570/820/1350	2150/1200/1415
Packing Dimension (L/W/H)			840/840/1275	1590/840/1465	2200/1250/1600
Net Weight / Gross Weight		kg	140/154	275/305	668/718

Full Inverter Boost Series

NEW DESIGN

WOTECH full DC inverter technology enables the heat pump to change its power mode according to different working conditions.With this technology, WOTECH full inverter heat pump can reach a COP with lowest noise level.

CODE		WP08V	WP10V	WP12V	WP14V	WP17V	WP23V
Advised pool size (m³)		15~30	20~40	25~50	30~60	35~70	50~100
Heating Performance Condition: Air 27℃, Water 27℃							
Heating Capacity (KW)		8.02~2.05	10.00~2.76	12.52~3.10	14.3~3.69	17.05~3.81	23.48~5.85
COP		6.59~12.8	5.9~13.1	5.6~13.5	6.3~13.2	5.8~12.3	6.0~12.1
Heating Performance Condition: Air 15℃, Water 26℃							
Heating Capacity (KW)		5.95~1.52	7.48~2.04	9.53~2.33	10.57~2.69	12.43~3.11	17.13~4.28
COP		4.68~7.0	4.46~6.8	4.6~7.0	4.73~6.8	4.4~6.6	4.4~6.5
Operating Air Temperature ℃		-15~43					
Power Supply (V/Hz)		220-240V/1PH/50HZ					
Rated Input Power(KW)		1.21	1.69	2.23	2.28	2.96	3.90
Rated Input Current(A)		5.6	7.7	10.5	10.4	13.5	17.8
Max Heating Current (A)		7.3	10.0	13.6	13.5	17.5	23.2
Water Flow Rate (m³/h)		3.4	4.1	5.4	6.0	7.3	9.0
Water Connection (inch)		1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Sound level at 1m (dB(A))		40~51	41~51	41~52	43~53	44~54	45~56
Net Dimension	L(mm)	970	1045	1045	1110	1110	1110
	W(mm)	360	370	370	416	416	446
	H(mm)	585	625	625	711	711	958
Qty per 20ft/40HQ(PCS)		90/240	84/240	84/240	48/150	48/150	48/96

The data above subject to change without prior notice.

Features

- Wide Operating Range
- Full Inverter Technology
- Highly Efficient
- R32 Refrigerant
- Smart Defrosting
- Low Operating Noise

CODE		WP21V	WP26V	WP35V
Advised pool size (m³)		40~80	55~110	75~150
Heating Performance Condition: Air 27℃, Water 27℃				
Heating Capacity (KW)		20.51~5.12	26.55~6.58	34.33~7.66
COP		6.9~12.3	5.8~12.4	6.2~12.6
Heating Performance Condition: Air 15℃, Water 26℃				
Heating Capacity (KW)		16.07~4.05	20.54~5.11	26.32~6.55
COP		5.3~6.6	4.6~6.4	5.0~7.3
Operating Air Temperature ℃			-15~43	
Power Supply (V/Hz)			380V/3PH/50HZ	
Rated Input Power(KW)		2.94	4.55	5.53
Rated Input Current(A)		5.9	8.5	9.7
Max Heating Current (A)		7.6	11.0	12.7
Water Flow Rate (m³/h)		9.0	11.2	15.1
Water Connection (inch)		1-1/2	1-1/2	1-1/2
Sound level at 1m (dB(A))		45~56	46~57	47~58
Net Dimension	L(mm)	1110	1110	1110
	W(mm)	446	446	446
	H(mm)	958	958	1260
Qty per 20ft/40HQ(PCS)		48/96	48/96	24/48

The data above subject to change without prior notice.

BR- A series

- Suitable for pools, sauna and SPA
- Compact size, easy to install

High COP

Environmental friendly

WIFI APP control (optional)

LCD or colorful LED controller for options.

Heating and cooling with reversible defrosting

Code		WBR-26.0H-A-S	WBR-31.0H-A-S
*Heating Capacity	KW	25.28	30.37
*Input Power	KW	4.38	5.28
*Running Current	A	7.84	9.45
*COP		5.77	5.75
**Heating Capacity	KW	19.56	23.99
**COP		4.59	4.74
Power Supply	V/Ph/Hz	380/3/50	
Max Heating Current	A	9.80	11.81
Condenser		Titanium Coil	
Compressor		Scroll	
Noise @1 meter	dB(A)	57	59
Water Connection	inch	1-1/2	1-1/2
Average Flow	m^3/h	11.18	13.33
Advised pool size (with cover)	m^3	95-150	115-180
Net Dimension L/W/H	mm	660*660*960	
Packing Dimension L/W/H	mm	700*740*1085	
Weight N.W /G. W	KG	103/116	110/136

*Heating A24/W26: Outdoor air temp (DB/WB):24℃/19℃, Water temp (in): 26℃
**Heating A15/W26: Outdoor air temp (DB/WB):15C/11C, Water temp (in): 26℃

BR- A1 series

- Designed with cooling and heating function, suitable for commercial and industrial use, compact structure, quiet and easy to install

High COP

Patented corrosion resistant titanium exchanger

Environmental friendly

Dual speed fan

Heating and cooling with reversible defrosting

Code			WBR-45.0H-A1-S	WBR-55.0H-A1-S	WBR-90.0H-A1-S	WBR-135.0H-A1-S	WBR-200.0H-A1-S
*Heating Capacity		KW	42.2	52.2	76.3	117.6	203.56
*Input Power		KW	7.15	9.05	14.64	22.75	39.68
*Running Current		A	12.80	16.18	26.20	40.69	70.98
*COP			5.9	5.77	5.21	5.17	5.13
**Heating Capacity		KW	32.64	39.49	62.16	94.06	167.44
**COP			4.74	4.66	4.57	4.19	4.79
Power Supply		V/Ph/Hz	380/3/50				
Max Heating Current		A	15.99	20.23	32.75	50.86	88.73
Condenser			Titanium Coil				
No.s of Compressor			2	2	3	4	4
Compressor			Scroll				
Noise @1 meter		dB(A)	60	60	62	65	72
Water Connection		inch	2	2	2-1/2	3	Dn125
Average Flow		m^3/h	19.3	23.6	38.7	58.0	86.0
Advised pool size (with cover)		m^3	250	350	500	750	1000
Net Dimension	L/W/H	mm	1450*705*1270		2150*765*1300	2150*1000*1930	2000*1685*2065
Packing Dimension	L/W/H	mm	1530*775*1420		2250*845*1450	2230*1080*2085	2110*1775*2255
Weight	N.W /G. W	KG	243/278	259/294	408/455	660/712	1114/1200

*Heating A24/W26: Outdoor air temp (DB/WB):24℃/19℃, Water temp (in): 26℃
**Heating A15/W26: Outdoor air temp (DB/WB):15C/11C, Water temp (in): 26℃

Mini Series

WOTECH Mini Heat Pump is ideal solution for above ground pools with compact design and easy installation.

CODE		WP03
Advised pool size (m³)		5~10
Heating Performance Condition: Air 24℃, Water 26℃		
Heating Capacity (KW)		2.9
COP		4.90
Heating Performance Condition: Air 15℃, Water 26℃		
Heating Capacity (KW)		2.2
COP		3.90
Operating Air Temperature ℃		10~43
Power Supply (V/Hz)		220-240V/1PH/50HZ
Rated Input Power(KW)		0.59
Rated Input Current(A)		2.8
Max Heating Current (A)		3.6
Water Flow Rate (m³/h)		1.3
Water Connection (inch)		1
Sound level at 1m (dB(A))		56
Net Dimension	L(mm)	420
	W(mm)	370
	H(mm)	440
Qty per 20ft/40HQ(PCS)		354/750

The data above subject to change without prior notice.

All in one series

- Heat pump water heater works on principle just like an air conditioner or like the refrigerator. It absorbs warmth from the air and transfer it to heat water. Hence it's also referred to as air-source heat pumps.It operates on electricity but is more efficient than a conventional electric water heater.GOMON high-efficiency all in one heat pump water heaters can provide an energy efficient and innovative water heating solution for your house.

The enamel is coated inside the water tank Which is of high corrosion resistance and of Great pressure bearing.

High efficient Micro-Channel heat exchanger with larger heat exchange area, Better heat transfer effect and More durable performance.

Not touch with water in the water tank, so the heat exchanger has no risk of corrosion, scaling, leakage, etc.

High Efficient Compressor
Being internationally-renowned brand dedicated compressor for heat pump, it is more reliable in system matching and quieter in operation.

Intelligent Defrosting
With intelligent defrosting design, it can revolutionarily solve the bottlenecks of heat exchangers in cold winter such as frosting and slow heating, etc., allowing you to spend a more comfortable winter.

Model		KRS75A-250V	KRS75A-300V
Tank Capacity	L	250L	300L
Inner Tank Material		Enamelled Steel(Steel BTC340R, 2.5mm thickness)	
Outer casing		Painted galvanized steel	
Tank Rated Working Pressure	MPa	0.8MPa	
Waterproof grade		IPX4	
Condenser		Micro-Channel Heat Exchanger	
Electric Element Power	W	2500W	
Heat Pump Rated Input	W	827W	
Heat Pump Heating Capacity	W	3300W	
Max. Input Power	W	4000W	
Hot Water Output	L/H	75L/H	
Max. Water Temperature	℃	75℃	
Voltage		220-240V / 50Hz	
Refrigerant		R134a	
COP		4.08	
Inlet / Outlet size		¾"	
Control Method		Remote display	
Noise Level	dB(A)	48dB(A)	
Product Dimension	mm	Ø650×1765mm	Ø650×1950mm
Wooden Package Size	mm	750x750x2130mm	

WOTECH HEAT PUMP DRYER

Integrated Dehumidification and Drying

Closed–loop drying method,more effective retention of ingredients and aroma

NO Concern for size,easy to install

WOTECH Project Cases

ISO9001 ISO14001 ISO45001 CE CB Intertek CNAS SGS

Wotech

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