

SWIMMING POOL HEAT PUMP

Super frequency conversion always serving you





R32 Refrigerant

A new generation non-toxic refrigerants with energy-saving, carbon reducing and environment-friendly. No harm to the ozone layer, slow down global warming.



Frequency Conversion

Full DC inverter pool heat pump Constant water temperature.



ABS

ABS Casing

Better corrosion resisting.



Cost saving

The highest cop is nearly 16, More heating capacity, and use cost is reduced by 60%.



Convenient IOT

Free Wi-Fi, Intelligent Control Anytime, Anywhere.

CORE COMPONENTS



1.Compressor
Mitsubishi DC frequency conversion compressor has excellent performance in different frequency bands, energy saving and stability.



2.DC fan
Fast speed adjustment, low noise, low power consumption.



3.Titanium tube heat exchanger
Super anti-corrosion, 30% increase in heat exchange, long durability.



4.Electronic expansion valve
Quick adjustment and control of flow, accurate matching system, energy saving and noise reduction.

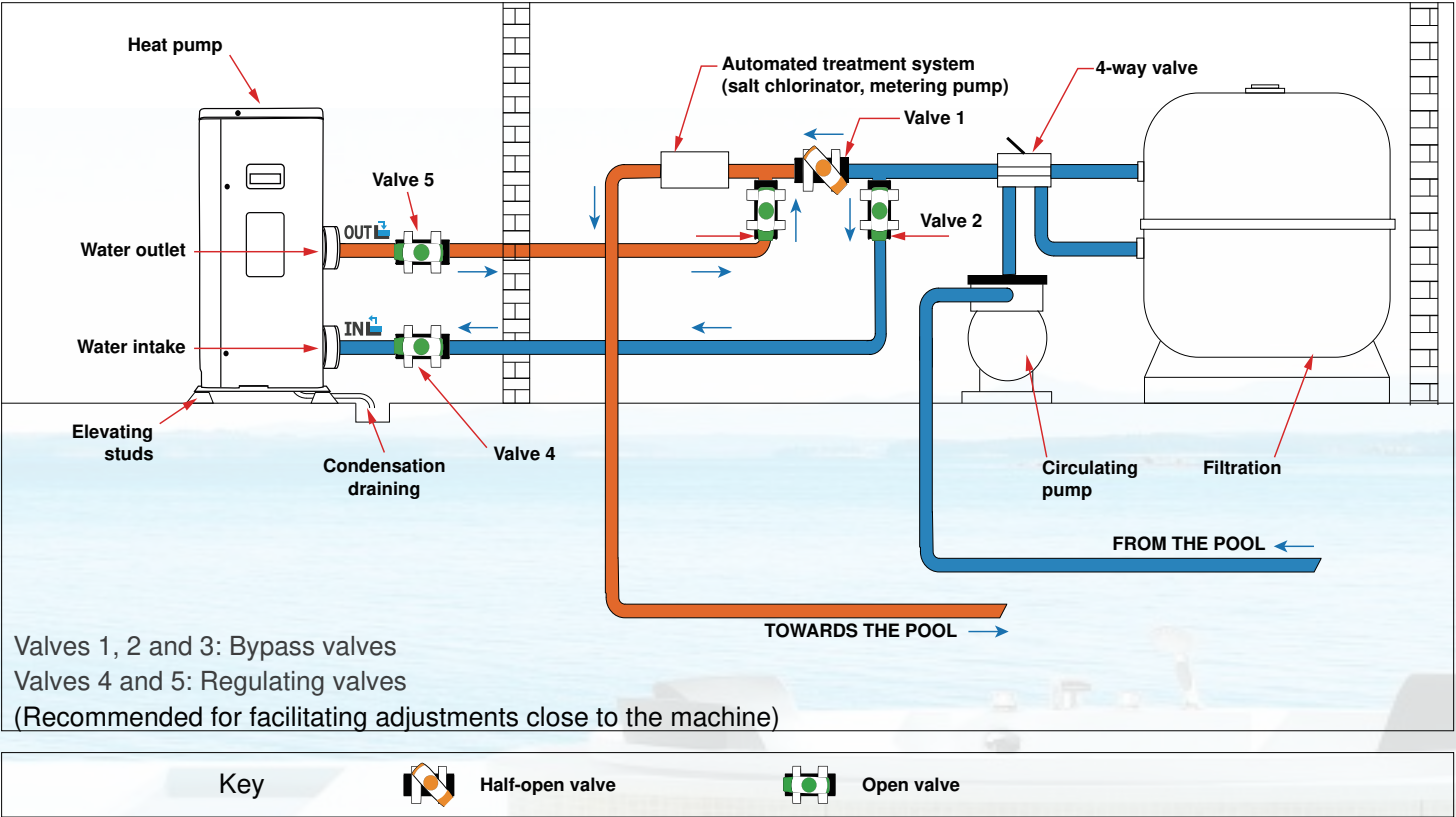


5.Intelligent frequency conversion controller
Accurate temperature sensing, intelligent balance, water temperature control error 0.1 °C . Stable start and stop, stable operation.



6.Multiple protection
Antifreeze protection, water flow protection, high pressure protection, low pressure protection is insufficient, water flow protection, safe use.

WORKING PRINCIPLE DIAGRAM



TECHNICAL DATA

R32 DC inverter heat pumps for swimming pool									
Model No.	BYC-007TE1	BYC-010TE1	BYC-013TE1	BYC-017TE1	BYC-021TE1	BYC-028TE1	BYC-035TE1	BYC-028TE3	BYC-035TE3
Heating Capacity at Air 26°C,Humidity 80%,Water 26°C,28°C out									
Heating Capacity(kw)	7.6 ~ 1.7	9.5 ~ 2.3	13.2 ~ 3.0	17.3 ~ 3.8	21.1 ~ 4.8	28.2 ~ 6.8	35.3 ~ 8.8	28.2 ~ 6.8	35.3 ~ 8.8
Pow er Input(kw)	1.12 ~ 0.11	1.40 ~ 0.15	1.91 ~ 0.19	2.50 ~ 0.24	3.09 ~ 0.30	4.12 ~ 0.43	5.15 ~ 0.56	3.97 ~ 0.48	5.15 ~ 0.56
COP	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8	15.8 ~ 6.8
Heating Capacity at Air 15°C,Humidity 70%,Water 26°C,28°C out									
Heating Capacity(kw)	6.1 ~ 1.4	7.6 ~ 1.9	9.8 ~ 2.3	13.5 ~ 3.0	16.5 ~ 3.8	23.1 ~ 5.5	25.5 ~ 6.4	23.1 ~ 5.5	25.5 ~ 6.4
Pow er Input(KW)	1.24 ~ 0.18	1.55 ~ 0.25	1.96 ~ 0.30	2.76 ~ 0.39	3.37 ~ 0.5	4.7 ~ 0.72	5.2 ~ 0.84	4.7 ~ 0.72	5.2 ~ 0.84
COP	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9	7.6 ~ 4.9
Cooling Capacity at Air 35°C,Water 29°C,27°C out									
Heating Capacity(kw)	4.2 ~ 1.0	5.3 ~ 1.3	7.2 ~ 1.7	9.4 ~ 2.1	11.6 ~ 2.7	14.9 ~ 3.8	19.3 ~ 4.9	14.9 ~ 3.8	19.3 ~ 4.9
Pow er Input(kw)	1.11 ~ 0.15	1.4 ~ 0.19	1.89 ~ 0.25	2.47 ~ 0.31	3.05 ~ 0.4	3.92 ~ 0.57	5.08 ~ 0.73	3.92 ~ 0.57	5.08 ~ 0.73
COP	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8	6.7 ~ 3.8
General Data									
Compressor	Rotary (Mitsubishi)								
Heat Exchanger	Titanium								
Air Flow Direction	Horizontal								
Automatic defrosting	by 4 way valve								
Casting Material	ABS								
Water proof level	IPX4								
Pow er supply	220 ~ 240V/50(60)Hz						380 ~ 415V/50(60)Hz		
Max pow er input(kw)	1.6	1.8	2.2	2.6	3.2	4.5	4.8	6.4	6.9
Max Current(A)	7.3	8.3	10.2	12	14.7	20.4	30	7.9	11.3
Air flow (m3/h)	2500	2500	3300	3300	3300	5000	5000	5000	5000
Water inlet/outlet(inch)	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"
Water flow (m³/h)	2.5	3.5	4.5	5.5	6.5	9	12	9	12
Water Pressure Drop (kPA)	16	16	17	17	17	17	18	17	18
Refrigerant/Weight(g)	R32/380	R32/460	R32/850	R32/850	R32/950	R32/1170	R32/1300	R32/1170	R32/1300
Min/Max Pressure(Mpa)	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4	0.2/4.4
Noise Level 1m dB(A)	39 ~ 49	40 ~ 52	42 ~ 53	43 ~ 55	45 ~ 56	47 ~ 58	49 ~ 59	47 ~ 58	49 ~ 59
Noise Level 10m dB(A)	20 ~ 29	20 ~ 32	22 ~ 33	23 ~ 35	25 ~ 36	27 ~ 38	29 ~ 39	27 ~ 38	29 ~ 39
Net Weight(kg)	42	43	53	54	58	86	98	88	98
Gross Weight(kg)	53	54	64	65	69	99	110	99	110
Net DIM(mm)	864*349*592		925*364*642			1084*399*737			
Package DIM(mm)	930*400*640		990*435*760			1146*460*862			
Heating temp range 15°C ~ 40°C/Cooling temp range 7°C ~ 35°C/Operating range -15°C ~ 43°C									
Product Appearance									