

# HEAT PUMP

## Domestic Heat Pump



- Patented high-performance titanium exchanger has more stable performance and greatly resist erosion of chlorine ion water, solid and durable
- Exterior is powder coated mild steel, corrosion resistant casing material
- By using high-heat exchanger technology, 65-80% of running cost can be saved compared with other heating machines. It consumes 1kw to produce about 5.5kw heating capacity, possessing high COP
- Remote and intelligent controller design with Celsius or Fahrenheit temperature display for options
- LCD or colorful LED controller for options
- Super power failure memory
- Flow switch built-in to avoid the low level water or devoid of water
- Advanced technology to mute noise from compressors and fans
- Heating and cooling with reversible defrosting
- Guages installed to read pressure of refrigerant, which is an added advantage to monitor compressors
- Wi-fi enabled system
- Gas: R410A
- A provision is available for synchronizing the pool filter pump using a separate cable.

- Note:**
- Heat pump sizing is influenced by ambient day temperature, humidity, presence of pool cover, night temperature, water features in pool & hours of operation of pool, pool location, wind movement.
  - Performance of heatpump directly proportionate to the location of installation, Please allow 1 meter in all sides for side fans heatpump.
  - We suggest suitable stabilizer to ensure constant power supply for longer life.

### SIZING CHART TO HEAT YOUR POOL TO 28 DEG C (HEAT PUMP MODEL NO'S GIVEN)

Pool Size		Temperate Zone		Warm Zone		Cold Zone	
		8-12 hrs / Day		8-12 hrs / Day		8-12 hrs / Day	
in Mtrs	in Ltrs	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover	with Pool cover	without Pool Cover
3 x 7	Up to 30000	14	26	14	26	17	31
4 x 8	Up to 40000	17	31	14	26	26	2x26
5 x 10	Up to 60000	26	2x26	17	31	31	2x31
6 x 12	Up to 90000	31	2x31	26	2x26	2x26	2x 45
6 x 15	Up to 112000	2x26	2x 45	31	2x31	45	2x 45
6 x 18	Up to 130000	45	2x 45	2x26	2x 45	55	2x 55
6 x 21	Up to 160000	55	2x 55	45	2x 45	55	2x 55
6 x 25	Up to 200000	55	2x 55	55	2x 55	2x 45	2x 90

**Temperate Zone:** where minimum average day temperature between October to March are not less than 18 deg C

**Warm Zone:** where minimum average day temperature between October to March are not less than 25 deg C

**Cold Zone:** where minimum average day temperature between October to March are not less than 10 deg C

# HEAT PUMP

## TECHNICAL SPECIFICATION

Ref. Code			HPD5.5	HPD9.5	HPD12.5	HPD17	HPD21	HPD26	HPD31
Operating temp. range	°C		-7~43						
Measuring conditions A 24°C W 27°C	Heating Capacity	KW	5.3	9.5	12.5	17	21	26	31
	Input Power	KW	1.1	1.73	2.36	2.83	3.5	4.56	5.64
	Running Current	A	4.86	7.85	10.72	12.88	5.83	7.6	9.39
		COP	5.0	5.5	5.3	6	6	5.7	5.5
Measuring conditions A 15°C W 27°C	Heating Capacity	KW	4.6	7.6	10	13.6	16.8	21	26.5
	Input Power	KW	1.04	1.65	2.27	2.83	3.36	4.57	5.76
	Running Current	A	4.72	7.51	10.33	12.88	5.6	7.61	9.6
		COP	4.4	4.6	4.4	4.8	5	4.6	4.6
Measuring conditions A 7°C W 27°C	Heating Capacity	KW	3.5	6.5	8.6	11.5	14.5	17	23.3
	Input Power	KW	0.88	1.71	2.39	3.03	3.63	4.47	6.13
	Running Current	A	4.01	7.78	10.86	13.76	6.04	7.46	10.22
		COP	3.0	3.8	3.6	3.8	4	3.8	3.8
Power Supply	V/PH/HZ	220-240V/1PH/50HZ				380-400V/3PH/50HZ			
Max Heating Input	KW	1.06	2.16	2.95	3.54	4.38	5.7	7.05	
Max Heating Current	A	4.82	9.81	13.4	16.1	7.29	9.5	11.74	
Max Cooling Input	KW	1.29	2.51	3.44	4.58	5.88	6.82	8.93	
Max Cooling Current	A	5.87	11.4	15.65	20.83	9.8	11.37	14.89	
Controller		LED/LCD							
Condenser		Titanium Coil							
Quantity of Compressor			1	1	1	1	1	1	1
Compressor			Rotary			scroll			
Quantity of Fan			1	1	1	1	2	2	2
Input Power of Fan	W		71	122	122	122	230	230x2	230x2
Fan Speed	RPM		850	830	830	830	850	850	850
Noise	dB(A) (1mtr)		50	54	55	56	56	57	58
Water Connection	inch		1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Water Flow Rate	m <sup>3</sup> /h		3	6	7	10	12	15	18
Water Pressure Drop	kpa		10	12	12	14	16	16	18
Net Dimension	L	mm	935	1010	1115	1115	1115	1115	1115
	W	mm	360	370	470	470	470	470	470
	H	mm	520	585	685	935	1250	1250	1250
Weight	Net Weight	kg	48	60	84	114	120	135	140
	Gross Weight	kg	52	67	96	132	138	149	152
Function		Heating & cooling with reversible defrosting							

Ref. Code	Cable size recommended	Stabilizer Capacity recommended
HPD5.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD9.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD12.5	2.5 Sq mm 3 Core	5 kva - 1 Phase
HPD17	4 Sq mm 5 Core	5 kva - 3 Phase
HPD21	4 Sq mm 5 Core	5 kva - 3 Phase
HPD26	4 Sq mm 5 Core	5 kva - 3 Phase
HPD31	4 Sq mm 5 Core	7 kva - 3 Phase

A - Air temperature outside

W - Water temperature in pool

**Note:** These Heat pumps are axial fan pumps designed for outdoor installation only.  
Cooling capacity details can be provided on request.