Commercial 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

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

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.

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			HPC35	HPC45	HPC55	HPC70	HPC90P	HPC105P	HPC135P
Measuring conditions	Heating capacity	KW	38	48	55	82	95	118	140
A26 deg C W 27 deg C @	Input power	KW	6.90	8.70	9.82	16.07	17.00	20.5	25.45
80% RH	Running Current	A	14.5*3	15.2*3	16.8*3	29.7*3	34.0*3	40.0*3	52*3
		COP	5.50	5.45	5.60	5.10	5.86	5.79	5.5
Measuring conditions	Heating capacity	KW	28.81	38	42	66.5	73.8	86.2	112.5
A15 deg C W 27 deg C @	Input power	KW	6.26	8.00	8.75	13.85	16.20	18.9	24.1
80% RH	Running Current	A	12.9*3	14.2*3	15.6*3	27.7*3	31.1*3	38.0*3	48.5*3
		COP	4.60	4.75	4.80	4.80	4.55	4.56	4.6
Measuring conditions	Heating capacity	KW	20.65	28.12	30.82	44.40	60.00	70	88
A 7 deg C W 27 deg C @	Input power	KW	5.90	7.60	8.40	12.00	15.80	17.94	23.2
80% RH	Running Current	A	12.0*3	13.3*3	14.9*3	24.5*3	29.1*3	35.0*3	44.5*3
		COP	3.50	3.70	3.67	3.70	3.80	3.9	3.8
Max Heating Input		KW	9.0	11.4	14.0	18.0	20.0	25	34.5
Max Heating Current		A	15.7*3	21.2*3	26.1*3	30.3*3	40.5*3	45.8*3	61.5*3
Power supply		V/PH/HZ	380-400V /3PH/50HZ						
Controller			LED/LCD						
Condenser			Titanium Coil						
Quantity of compressor			2			3			4
Compressor			Scroll						
Noise level		Db (A) (1 meter)	60				62	63	65
Water connection		inch	2				2 / 2½	3	3
Water flow rate		Cu mtr /hr (min -max)	13-19	14-21		25-30	30-36	45-50	70-77
Net dimension	L	mm	1450			2037		2000	2300
	W	mm	710			1037		1100	1100
	H	mm	1060			1360		2080	2300
Weight	Net weight	kg	235	260	260	452	510	582	612
	Gross weight	kg	265	290	290	550	570	642	675
Function		Heating & cooling with reversible defrosting							

A- Air temperature outside

W- Water temperature in pool

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