

# Technical Data Sheet - Swimming Pool Heat Pump



### Characteristics:

- 1) Tube in tube titanium heat exchanger or titanium tube in PVC shell heat exchanger.
- 2) American Copeland compressor; Safe, Reliabilities, Stable running & durable.
- 3) Japan Saginomya/ other brand four-way valve ; It is very efficient in defrosting in low ambient temp
- 4) Japan Saginomya / other brand electronic expansion valve; Making sure the best velocity of flow. It can regulate automatically from 0 to 500 rank that make the system to run in a stable state and reduce trouble
- 5) Green & Environment-friendly Refrigerant ;
- 6)Strong Cabinet; Standard unit fabrication consists of heavy gage galvanized sheet metal cabinet construction that provides maximum strength.
- 7) Full Consideration for Noise Control; Compressor rubber feet specially selected for reducing vibration.Specially, compressor sound jacket available to reduce noise
- 8) Unique super energy saving controlling system can save extra 10% energy than other units in market.
- 9)Reliable Design and Strict Quality Control; All products 100% are tested and run at the factory to assure proper operation of all components and safety switches.

### TECHNICAL SPECIFICATION

Model		LWH-030SC	LWH-050SC	LWH-075SC	LWH-100SC	LWH-120SC	LWH-150SC	LWH-200SC	LWH-250SC	LWH-300SC	LWH-400SC	LWH-500SC	LWH-600SC
Heating capacity	KW	13.5	22.8	34.2	45.7	54	68.6	91.5	114.5	145	190	229	275
	Btu/H	46080	77824	11686	155989	184248	234155	312320	390827	494934	648534	784760	938300
COP		5.62	5.7	5.6	5.71	5.62	5.7	5.71	5.72	5.7	5.8	5.75	5.42
Cooling capacity	KW	8.2	13.5	21.75	30	37	45	60	75	90	120	150	180
	Btu/H	27989	46080	74211	102400	126293	153600	204800	256000	307200	409600	512000	614400
EER		3.04	3.14	3.13	3.13	3.08	3	3	3	3.05	3.07	3	3.05
Power	V/Ph/Hz	380~415V/3PH/ 50Hz											
Heating input power	Kw	2.4	4	6.1	8.2	9.6	12	16	20	25.4	32.7	40	50.8
Cooling input power	Kw	2.7	4.3	6.95	9.6	12	15	20	25	29.5	39	50	59
Heating input current	Amp	4.8	7.6	11.4	15.2	17.2	22.8	30.5	38	48	62	76	96
Cooling input current	Amp	5.4	9.8	13.7	17.6	21.5	30.7	41.8	50.8	59.2	85	101.6	118.4
Compressor type		Scroll*1	Scroll*1	Scroll*1	Scroll*2	Scroll*2	Scroll*2	Scroll*2	Scroll*2	Scroll*2	Scroll*4	Scroll*4	Scroll*4
Compressor brand		Copeland/Sanyo/Other brand											
Throttle type		Electronic expansion valve (EEV)											
Fan type		Low noise high efficiency axial type											
Fan direction		Vertical											
Fan No		1	1	1	2	2	2	2	2	4	4	4	6
Evaporator fin type		Hydrophilic aluminium											
Evaporator tube type		Innergroove tube											
Heat exchanger type		Titanium in PVC											
Controller type		Intelligent & LCD											
Ambient Temperature	°C	(-10°C~+45°C)											
Refrigerant type		R417a											
Low pressure protection		Yes											
High pressure protection		Yes											
Automatic defrosting system		Yes											
Overload protection		Yes											
Noise in 1 meter	dB(A)	≤54	≤56	≤58	≤60	≤63	≤65	≤66	≤68	≤71	≤72	≤73	≤73
Water pipe size	(mm)	φ50	φ50	φ50	φ63	φ63	φ63	φ90	φ90	φ110	φ110	φ140	φ140
Water flow volume	m <sup>3</sup> /hr	4	6	9.5	13	15	19	25	33	41	54	66	82
Cabinet		Galvanized powder coated steel/Stainless steel											
Unit Size	mm	710*810*840	710*810*840	980*860*1525	1550*845*1180	1550*845*1180	1585*850*1525	2000*1005*1865	2010*1165*2025	1700*1585*1525	1700*1585*1525	2010*2330*2025	2315*2330*2035
Net Wt	Kg	68	125	180	270	370	460	650	750	900	1100	1400	1700
Price	INR	218050	272650	411100	491050	563200	627550	1078000	1154050	1659100	2131000	2281150	3301000

Testing condition :  
 1. Heating working condition: Outdoor DB/WB temp: 24°C/19°C, 62.5%RH, inlet water temp : 26°C.  
 2. Cooling working condition: Outdoor DB/WB temp: 35°C/24°C, 68%RH, inlet water temp : 30°C.