Swimming Pool Heat Pump

Model		ISS-04SPi	ISS-07SPi	ISS-10SPi	ISS-13SPi	ISS-20SPi	ISS-25SPi	
Air /Water 24°C/26°C	Output Power (KW)	18	33	40	52	90	105	
	Input Power (KW)	3.21	6.2	7.5	9.8	17	20	
	COP	5.6	5.3	5.3	5.3	5.3	5.3	
	Current	15.36	11	13.37	17.47	30.3	35.65	
Water Cooling Capacity(KW)		14.4	26.4	32	41.6	72	84	
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	
Electric Power		220V/50Hz/1PH 380V/50Hz/3PH						
Heating/Cooling Water Range		10~45°C						
Compressor		Panasonic/scroll						
Heat Exchange		Titanium Tube Heat Exchanger						
Auto Defrost		Included						
Water Connection Port (mm)		Exterior 50mm/ Interior 40mm Exterior 70mm/ Interior 60mm					or 60mm	
Noice dB(A)		49	58	58	58	65	65	
Water Flow Rate)m³/h)		10~12	15~18	20~25	25-30	40-50	50-60	
Water Pressure Drop (Kpa)		14	15	16	18	30	35	
Product Dimension(mm)		810*810*1050	830*830*1350	1580*910*1180	1580*910*1380	2000*1100*2300	2000*1100*2300	
Packing Dimension(mm)		950*950*1250	950*950*1550	1650*980*1340	1650*980*1540	2200*1300*2500	2200*1300*2500	
Net/ Gross Weight (Kgs)		112/122	160/190	250/280	280/310	620/540	650/570	
Cold & Hot Feature		Optional	Optional	Optional	Optional	Optional	Optional	





EVI Heat Pump Series

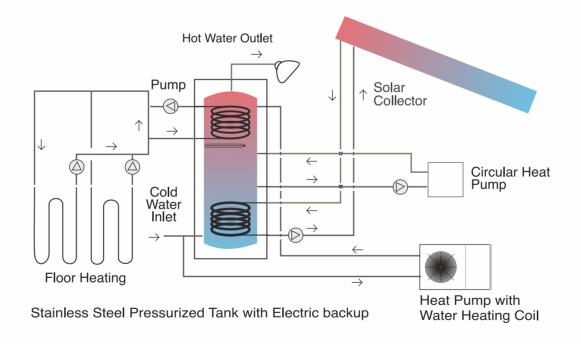
Model		ISS-03LD	ISS-04LD	ISS-05LD	ISS-10LD		
Power Supply	V/Ph/Hz	220-240V/1PH/50HZ	220-240V/1PH/50HZ	380-415V/3PH/50HZ	380-415V/3PH/50HZ		
*Ambient Temp. ()	Ambient Temp. (Dry Bulb/Wet Bulb): 7°C/6°C, Water Temp. (In/Out): 30°C/35°C						
Output	KW	7.85	12.16	16.48	33		
Input	KW	1.9	3	4.01	8		
COP	W/W	4.1	4.12	4.11	4.12		
*Ambient Temp. (Ambient Temp. (Dry Bulb/Wet Bulb): -7°C/-8°C, Water Temp. (In/Out): 30°C/35°C						
Output	KW	4.5	7	9.51	19		
Input	KW	1.9	2.96	4.01	8.02		
COP	W/W	2.3	2.37	2.36	2.37		
*Ambient Temp. ()	*Ambient Temp. (Dry Bulb/Wet Bulb): -15°C/-16°C, Water Temp. (In/Out): 30°C/35°C						
Output	KW	3.4	5.3	7.22	14.5		
Input	KW	1.85	2.87	3.89	7.8		
COP	W/W	1.86	1.85	1.83	1.86		
Compressor	N/A	Copeland Scroll EVI	Copeland Scroll EVI	Copeland Scroll EVI	Copeland Scroll EVI		
Compressor QTY	рс	1	1	1	2		
Fan Motor	N/A	Side Blowing	Side Blowing	Side Blowing	Side Blowing		
Fan Motor QTY	рс	1	1	2	2		
Refrigerant	N/A	R407C	R407C	R407C	R407C		
Max. Water Temp. °C		60					
Refrigerant Contro	i	Electric Expansion Valve					
Defrosting		4-way valve reverse auto defrosting					
Working Temp. °C		Min. : -25/ Max.: +43					
Nozzles Size	Inch	1	1	1	1.5		
Water Flow Rate	m³/h	2.5~3.0	3.5~4.0	3.5~4.0	6.0~6.5		
Noise	dB(a)	60	65	65	68		
Unit Demension cm		850*520*123	1305*505*1245	1305*505*1245	1565*575*1710		
N.W/G.W: Kg		100/120	145/170	145/170	330/370		
Cold & Hot Feature		Optional	Optional	Optional	Optional		

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Hybrid System (Solar Combine With Heat Pump)

- To optimise the entire range of benefits that Inter Solar Heat Pumps have to offer, we provide the domestic and commercial markets with a complete air source energy package that is custom-made to suit the individual needs of each application.
- This package is completely unique and includes the highest level of customer support from initial advice, professional planning and design, through to installation, technical and after sales support.
- The use of an Inter Solar Air Source Heat Pump can also be combined with solar thermal water heating. The package is suitable for both new and existing properties.
- In New Built homes Inter Solar air source normally will provide space heating whereas DHW will be heated by solar collectors, such as Inter Solar heat pipe or U pipe Vacuum tube panels.

Solar Hot Water & Space Heating Overall Concept





Series

Engineered in Australia











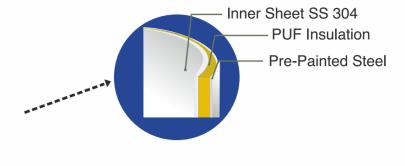
901-A, Business Development Centre, Phase-II, Chandigarh 160 002 Ph: (O) 0172-4589999, 2655349, 8437254139, 5086113 | Toll free: 18002024139 E-mail: info@intersolarsystems.com | www.intersolarsystems.com



Enhance the Luxury of bathing with Inter Solar Heat Pumps



With Cold Feature*





Features	Superia+	Superia	Imperia
Hot & Cold	Optional	Optional	Optional
S.S. Outer	~		
S.S. Inner	~	~	
M.S. Inner			~
Pre-Painted Steel		~	~
Puf Installation	~	~	~



INTER SOLAR





Engineered in Australia

Introduction

Established in 1997 Inter Solar is an ISO 9001 & 14001 Certified Company.

We strive to optimize the performance & efficiency at lower cost. Our research team tests new materials, manufacturing methods & improved distribution systems. New technologies are evaluated as it develops. Besides improving existing products & systems, Inter Solar explores exciting new ideas as it develops. Inter Solar has now introduced High performance Air Source Heat Pumps for the area having space constraints

Save the Environment

Traditional fossil fuel reserves all over the world such as oil, coal & gas are fast getting exhausted. When fossil fuels are burned to produce energy, carbon dioxide (CO2) is released into the atmosphere and this, in turn, adds significantly to the global concerns over climate change.

The Inter Solar Air Source Heat Pump installed in the home, Hotels, Hospitals, Industries as the main source of heating and hot water can reduce CO2 emissions to zero. As there are no emissions from the system so there is no local pollution from the installation property. The inconvenience and cost of fuel storage as with oil, LPG & solid fuel is also removed.

With its best in class thermal performance, Inter Solar water heater system delivers more heating power with less energy consumption, and at the same time reducing your carbon footprint.

Advantages of Air Source Heat Pump water heater



LONG OPERATING LIFE

Advanced stainless steel/titanium metal water heat exchanger.



ECONOMICAL AND HIGH - EFFICIENCY

Using water heat pump technology compared with other ordinary hot water equipment (for example, oil, gas, electric and so on), reduces operation costs by 65-80%.



INTELLIGENT

Smart computer control and LCD display controller.



BRIGHT DESIGN, EASY INSTALLATION & REPLACEMENT

Unit design separated for main model & water unit model, the unit is remarkable, compact, with pump and flow switch inside.



SUITABLE FOR ALL CLIMATES

Not effected by weather & ensure 24/7 constant hot water supply.



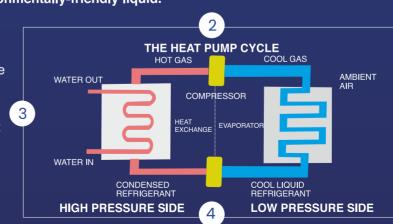
SUPERIOR QUALITY

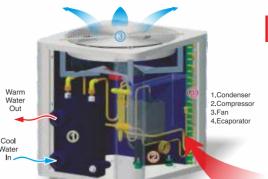
Multi protections to protect from water temperature, compressor exhaust pressure, compressor temperature, evaporator temperature and so on.

Introduction

The heat pump evaporator contains an environmentally-friendly liquid.

- 1. The heat pump transfers the heat absorbed in the environment to the refrigerant.
- 2. In the compressor, the compressing procedure increases the pressure and temperature, and the refrigerant turns into gas.
- 3. In the condenser (the heat exchanger) the hot gas transfers the heat to the water cycle used to heat the water.
- 4. After the gas has transferred the heat to the water, it is condensed and changes its state into a liquid phase.





Heat Pump Working Diagram

- Digital Temperature Readout
- Self Diagnostic Controller
- Super Corrosion-Proff Titanium Tubular Heat Exchanger
- Quiet / Engineered Low Noise
- Longer Swimming Season
- · 300%-500% Heat Efficiency



Domestic Heat Pump Series

Model		ISS-140 D	ISS-03 C		
Referigerant		R417A/R410A/R22			
Compressor Brand		Copeland			
Testing Condition		1. Dry-bulb temperature 20°C 2. Wet-bulb temperature 15°C 3. Water temp. rises 40°C." 1. Environment Temp. for Working: -5°C to 43°C 2. Max. Water Outlet Temp.: 60°C			
Features					
Outdoor Unit Air Outlet		Side Discharge Air Outlet	Top Discharge Air Outlet		
Rated Water Heating Capacity	KW	6.5 Domestic	11 Domestic		
Trated Water Fleating Capacity	BTU/h	22100	37400		
Rated Water Cooling Capacity	KW	4.2	8		
Trated Water Cooling Capacity	BTU/h	14459	27200		
Rated Outlet Heating Temp.	°C	55	55		
Max. Outlet Water Temp.	°C	60	60		
Rated Water Heating Capacity	L/h	140	230		
Rated Input	KW	1.62	2.7		
Rated Working Current	Α	7.7	12.7		
COP	W/W	4	4		
Power Supply	V/PH/HZ	220~240V/1PH/50HZ 380~415V/3PH/50			
Auto Defrost	Included				
Compressor QTY	Unit	1	1		
Fan QTY	Unit	1	1		
Sound Level	dB(a)	55	65		
Water Inlet/Outlet Diameter	Inch	G1¾"	G1¾"		
Water Flow Rate	m³/h	2	2.5		
Circulation Pump		Inbuilt	External Circulation Pump		
Condenser		Copper Pipe In Steel Case Heat Exchanger			
Outline Dimension	LxWxH(mm)	930*360*560	710*710*850		
Packing Dimension	LxWxH(mm)	1045*375*570	840*840*1030		
Net Weight	KG	55	100		
Water Flow Rate	KG	58	115		
Cold & Hot Feature		Optional	Optional		



ISS-15 C ISS -20 C

13.8

153000

Commercial Heat Pump Series

