HEAT PUMPS

SV SERIES

spanet

Innovative Spa & Pool Solutions

Reduce heating costs by up to 75%

Featuring

powersmart Technology

- ENERGY EFFICIENT
- CORROSION RESISTANT
- INTERFACED TO SPA CONTROLER
- R32 ECO-FRIENDLY REFRIGERANT

Integrated heat pump solution

SpaNET recognised that air sourced heat pumps are the most energy efficient method of heating and became the first spa controller manufacturer to develop a interface to offer true integration to a spa pool. SV Series Powersmart heat pumps do not have a separate keypad for adjusting settings, rather they feature a dedicated interface to connect to any model SV Series spa controller allowing all temperature, settings, and diagnostic adjustments to be conveniently controlled via the spa pool's topside keypad.
The plug-n-play heat pump interface allows instant connection of a SV Series heat pump to your spa, slashing heating costs by up to 75%. No additional power circuit or cabling is required as the SV Series heat pumps plug straight into a SV Series spa control. The spa control automatically detects the heat pump on startup and disables the electric element of the spa control. The installation of a heat pump will result in massive savings to your electricity bill allowing you to cost effectively keep your spa at temperature and ready to use all year round.

The world's most energy efficient spa heater.

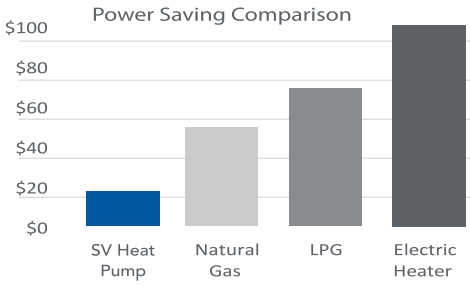
Providing affordable year round spa use

The Undeniable Fact!

The most energy efficient heater

Air sourced heat pumps are the most energy efficient and cost-effective method of heating your spa or pool water. When compared to gas or electric heaters, a heat pump uses a tiny portion of energy to generate the same amount of heat output.

By using refrigeration technology a heat pump only requires a small amount of energy to run a fan motor and compressor, and can output over five times more energy in heat compared to what it consumes in electricity.



This means a SV Series Powersmart heat pump will use around 75% less energy than a standard electric spa heater and 55% less energy than natural gas. The massive saving in electricity allows you to cost effectively keep your spa or swim spa at temperature and ready to use all year round, or cost effectively extend the swimming season of your swimming pool.

Why pay your energy provider for a heat pump you'll never receive

Without a heat pump installed you will be paying your energy provider 75% more than you should to heat your spa or pool. Having a heat pump installed offers such a massive reduction in electricity cost, these savings will quickly recover your investment cost. This means the heat pump is actually FREE!

Put simply, if you don't have a heat pump installed your increased outgoing electricity costs will have paid for the cost of a heat pump that you will never receive.

Eco-friendly refrigerant

Unlike other refrigerants R32 does not cause ozone depletion and achieves higher performance with reduced power usage.

Benefits of low power consumption

Traditionally spas connected to low amperage power supplies have been restricted to a 3kW electric element and had insufficient power available for heating when the spa is in use and a jet pump is running.

However SV Series Powersmart heat pumps consume such little power you have the added benefits of reduced heating times due to the larger 5.5/8.8/12.0kW heating output, and you can spa for longer because there is sufficient power available to run the heat pump whilst a jet pump is operating.

Ideal for installation with

Spas, swim spas and plunge pools.

Dualcore heat or cool

Dualcore construction allows you to heat or cool your spa depending on season. The SV Series heat pumps have three operation modes - automatic, heat only or cool only.

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HEAT PUMPS
SV
SERIES

DUALCORE
HEAT AND COOL

SV series integration

SV Series Powersmart heat pumps are the first heat pumps to offer true integration to a spa pool. There is no separate keypad on the heat pump for adjusting settings, rather they feature a dedicated interface for seamless integration to a SV Series spa controller allowing all temperature settings and mode adjustments to be conveniently controlled via the spa side keypad. The heat pump and spa control have been designed to work in synergy. With solid state diagnostics and real time heat pump monitoring the SV series control system correctly looks after every need of the heat pump ensuring long term reliability whilst delivering absolute minimum operating costs.

Cool your spa in summer

Traditionally spa controls have only been able to heat spa water. With no cooling ability, the higher ambient temperatures during warmer months often result in spas being too hot to use. However the SV heat pump interface revolutionises spa temperature control. SV heat pumps not only provide automatic heating of the spa water, but automatic cooling of the spa water as well. Simply set your desired water temperature on the spa side keypad and the SV heat pump will automatically heat or cool the water (when required) to maintain your desired water temperature level (from 5°C to 41°C). Heat or cool your spa pool depending on season.

FEATURE	SV SERIES INTERFACED HEAT PUMP	GENERIC NON-INTERFACED HEAT PUMP
Automatic heating and cooling of spa water	YES - water temperature will be automatically regulated to any desired temperature (Range: 5°C - 40°C)	NO - standard spa controllers only support heating and have no ability to cool
Correctly sequenced start-up and shutdown of heat pump components	YES - the SV completely controls all heat pump functions and components. Its real time monitoring ensures the fan, valves, defrost elements and compressor are all switched on and off in the correct sequence required for reliable heat pump operation and long term life expectancy. Low ambient temperatures and defrost needs are taken into account and dealt with appropriately	NO - often the heat pump will be operating and the spa controller will simply cut power to it. The result is that the heat pump components are not switched in the correct sequence resulting in dramatic degradation of the components through temperature and pressure spikes, leading to short expected life. Defrost cycles are cut short or missed completely and any accumulated run data that the heat pump has recorded is lost when the power is cut off unexpectedly
Easy temperature adjustment from spa-side keypad	YES - the set temperature is easily adjusted, up or down, via the SV spa-side keypad. The control system automatically responds and will heat or cool where required to regulate the water to the new set temperature point	NO - there is no communication between the spa controller and the heat pump and no ability to cool. Settings can only be altered from a keypad on the heat pump itself, which is often located in difficult to access locations away from the spa
SV element boost (heat pump + SV heater) for rapid heat recovery	YES - a user adjustable menu option to activate the SV electric element to run in conjunction with the heat pump to boost heating and dramatically reduce heat recovery times. Ideal for when spas are emptied / refilled or when the water temperature needs to be increased significantly in a short amount of time	NO - the internal heaters of standard spa controllers are disconnected if installed with a heat pump. The heat pumps are then usually wired in a questionable (perhaps illegal / unapproved) way to the spa controller's heater connections
Integrated PowerSMART energy saving features	YES - the integrated heat pump benefits from the powerful energy saving features of the SV spa control such as programmable off-peak heating / filtration, dynamic thermal tuning, away & weekend operating modes	NO - there is no communication between the spa controller and the heat pump

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Interfaced to spa control for a true integrated solution
Stylish plastic cabinet with superior UV resistance
Insulated heat exchanger and cabinet
Corrosion resistant gold fin evaporator
Eco-friendly R32 refrigerant
Titanium / PVC heat exchanger

THE UNDENIABLE FACT

The philosophy and undeniable fact behind the question "is it fiscally smart to fit a heat pump to my spa" only has one answer and that is a crystal clear…**YES!** The savings generated from the massive reduction in electricity cost to heat your spa will pay for your investment over a short period of time. This means the heat pump is actually FREE! If you don't have a heat pump fitted to your spa you are simply paying your electricity provider for the cost of a heat pump you'll never get.

CORROSION RESISTANT

100% rust-proof plastic enclosure with superior UV resistance and a modern design style ensures the heat pump is aesthetically pleasing for your backyard and remains that way over time. By producing the heat exchanger coil from Titanium and exchange tank from PVC we maximise corrosion resistance to commonly used spa and pool chemicals such as lithium, bromine, ozone, iodine, salt , chlorine and baquacil.

ALL SEASONS OPERATION

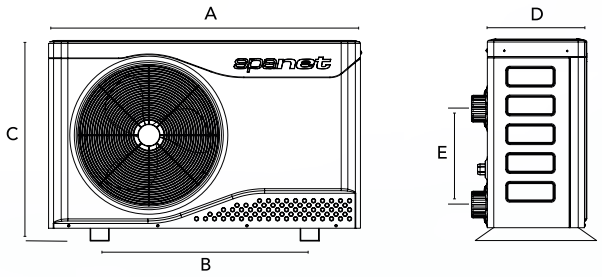
The Powersmart heat pump range has automatic defrost protection allowing operation throughout all seasons even in low ambient temperatures (<5°C). If the environmental temperature is too low and the air is very humid and cold, automatic defrost control will be activated when necessary to maintain optimal heat pump performance.

SPECIFICATIONS

POWER	SN-HP-55P	SN-HP-90P	SN-HP-120P
Input Voltage	220-240V AC	220-240V AC	220-240V AC
Hertz / Phase	50Hz / 1	50Hz / 1	50Hz / 1
Power Input	1.0kW	1.55kW	2.05kW
Current	5.1A	7.6A	10.5A
HEATING OUTPUT			
Heating Capacity - A24°C / W27°C*	5.8kW	8.9kW	12.2kW
COP - A24°C / W27°C	5.8	5.74	5.95
Cooling Capacity - A32°C / W27°C	3.8kW	5.3kW	8.4kW
EER - A32°C / W27°CC	2.98	2.94	3.65
COMPONENTS			
Compressor Style	Rotary	Rotary	Rotary
Compressor Brand	Toshiba	Toshiba	Toshiba
Heat Exchanger	Titanium / PVC	Titanium / PVC	Titanium / PVC
Defrost Element	Electric	Electric	Electric
Refrigerant	R32	R32	R32
MECHANICAL			
Water Connection	40mm PVC	40mm PVC	40mm PVC
Operating Temperature Range	-2°C - 40°C	-2°C - 40°C	-2°C - 40°C
Fan Direction	Horizontal	Horizontal	Horizontal
Fan Rotate Speed - RPM	850	850	950
Noise - dB(A)	49	49	51
Water Flow Volume - m3/hr	2.2	3	4
Net Unit Size - L/W/H (mm)	870x330x610	870x330x610	985x330x620
Carton Size - l/W/H (mm)	960x410x640	960x410x640	1045x455x650
Net / Gross Weight - kg	47 / 49	55 / 57	63 / 70

* A = ambient air temperature W = water Temperature

SN-HP-55P/90P/120P



	SN-HP-55P	SN-HP-90P	SN-HP-120P
A	870mm	870mm	980mm
B	610mm	610mm	615mm
C	610mm	610mm	620mm
D	330mm	330mm	330mm
E	260mm	260mm	300mm

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