



## Powerline Inverter

>>> ENERGY EFFICIENT HEAT PUMP

# GET MORE FOR LESS.

EXTEND YOUR SWIMMING SEASON  
FOR LESS USING ENERGY SAVING  
INVERTER TECHNOLOGY.

**The high performance, energy efficient Hayward Powerline Inverter Heat Pump quietly and economically maintains your ideal water temperature at all times, while delivering potential energy savings compared to traditional on/ off Heat Pumps and Gas Heaters. It does this by constantly monitoring the temperature and adjusting its output to supply the required amount of energy to heat your pool or spa.**



## WHY INVERTER TECHNOLOGY?

### WHAT IS INVERTER TECHNOLOGY?

>> Inverter technology constantly measures the water temperature and adjusts the speed of the compressor and fan to run at the most efficient setting to match the heat loss of the pool.

>> On start-up, the unit will slowly increase the compressor and fan speed, then will automatically decide how much energy is required to heat or maintain the water temperature.

>> As the water temperature reaches the set-point temperature, the unit will begin to reduce the speed of the compressor and fan reducing energy consumption. When operating at lower speeds the C.O.P (efficiency) increases, resulting in reduced running costs.

>> The PowerLine Inverter will then constantly measure temperature parameters and adjust the output, maximising efficiency.

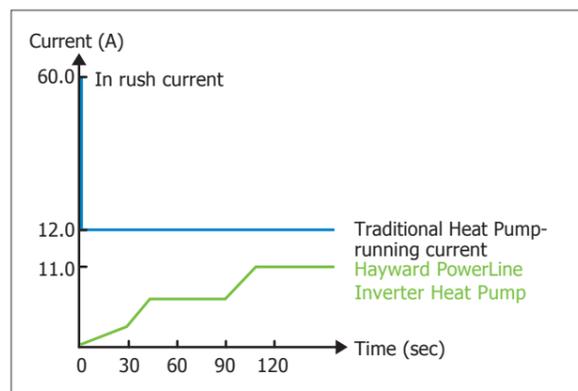
>> Traditional on/off heat pumps are sized to heat a specific size pool or spa; The compressor and fan switch on when heat is required rather than adjust the output to meet heat demand. The older technology in these heat pumps, just like old fashioned air conditioners, cannot adjust the output

to maintain a given temperature, so they cannot match the improved efficiency and reduced running costs achieved by the PowerLine Inverter Heat Pump.



### C.O.P (COEFFICIENT OF PERFORMANCE)

A ratio of the heat provided and energy consumed, a higher C.O.P will mean lower operating costs due to less energy being consumed.



### SOFT START TECHNOLOGY

When the Hayward PowerLine Inverter Heat Pump turns on it will start at zero and slowly increase to a higher speed, this leads to a stable current and lower energy consumption.

Traditional on/off heat pumps start at a higher current which will lead to higher energy consumption, and places stress on circuits and components.

## WHAT ARE THE FEATURES & BENEFITS?

### >> DC INVERTER TECHNOLOGY

Save on running costs compared to a traditional on/off heat pump using this unique technology that adjusts its power and electricity consumption based on the needs of the pool.

### >> VARIABLE SPEED FAN

Adjusts its rotation speed according to the air temperature and operates on low speed for a very quiet night time operation mode.

### >> SOFT START TECHNOLOGY

Starting at zero and increasing slowly to a higher speed leads to a stable current and lower energy consumption.

### >> SUPER QUIET OPERATION

Operating at low dBA this heat pump is virtually silent from only a few metres.

### >> TITANIUM HEAT EXCHANGER

Designed for durability and efficiency to ensure maximum heat transfer and resistance to harsh pool chemicals.

### >> EXTEND YOUR SWIMMING SEASON

Designed to operate at low ambient temperatures (designed for temperatures down to -7°) you can extend your swimming time earlier in spring and well through Autumn.



### SPECIFICATIONS

	Powerline	EnergyLine Pro				
MODEL	PLI-10	PLI-13	ELPI-17	ELPI-19.5	ELPI-24.5	ELPI-29
Heating Capacity*	10kW	13kW	17kW	19.7kW	24.5kW	29.1kW
Max Input Power (kW)	2.0	2.5	3.4	4.6	5.9	7.1
Max Input Current (Amps)	9.0	11.0	16.0	20.0	25.9	11.3
Electrical Power Consumption (kW)*	0.21-1.4	0.27-2.1	0.30-3.02	0.37-3.94	0.46-4.80	0.54-5.57
C.O.P*	15.3-6.9	15.4-6.4	12.67-5.63	13.24-4.95	12.39-5.04	12.41-5.08
Electrical Connection	10amp Plug	Hard Wired				
Voltage/ Phases/ Frequency	220V-240V/1 / 50Hz	220V-240V/1 / 50Hz	220V-240V/ 1/ 50Hz	220V-240V/ 1/ 50Hz	220V-240V/ 1/ 50Hz	380V-415VV/ 3/ 50Hz
Diameter (L/W/H)	961/340/658	961/340/658	1150/485/868	1150/485/868	1150/485/1275	1150/485/1275
Net Weight (KG)	49	52	77	82	110	113
Max Water Pressure Loss (kPa)	4	4.5	5	6	11	15
Recommended Water Flow (Lpm)	58	100	88	110	143	167
Water Connection (PVC)	40mm	40mm	40mm	40mm	40mm	40mm
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A
Noise Level (dBA @ 1m)	38-50	41-54	44-53	45-56	46-57	48-58

The rated heating capacities are based on Test standard NF-EN 14511, used in reference framework NF-414. \*Outdoor air 27/24.3°C - Incoming water temperature 26°C. Refer to manual for performance at lower operating temperatures.

## HOW QUIET IS IT?

### MUCH QUIETER THAN TRADITIONAL HEAT PUMPS

Hayward Variable-Speed heat pumps feature a super quiet Mitsubishi inverter compressor and variable-speed ventilation system, which provides an extremely quiet swimming environment while maintaining the perfect pool temperature at all times.



### QUIET OPERATION

Hayward PowerLine Inverter Heat Pumps operate at average 48 dBA, which is virtually silent from a few metres away.

