



HAYWARD[®]

EnergyLine Pro 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 EnergyLine Pro 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?

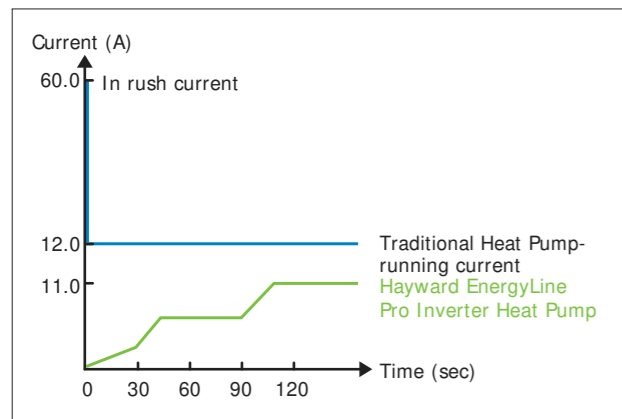
WHAT IS INVERTER TECHNOLOGY?

- >> 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 EnergyLine 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 EnergyLine Pro 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 EnergyLine Pro 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.

HOW QUIET IS IT?

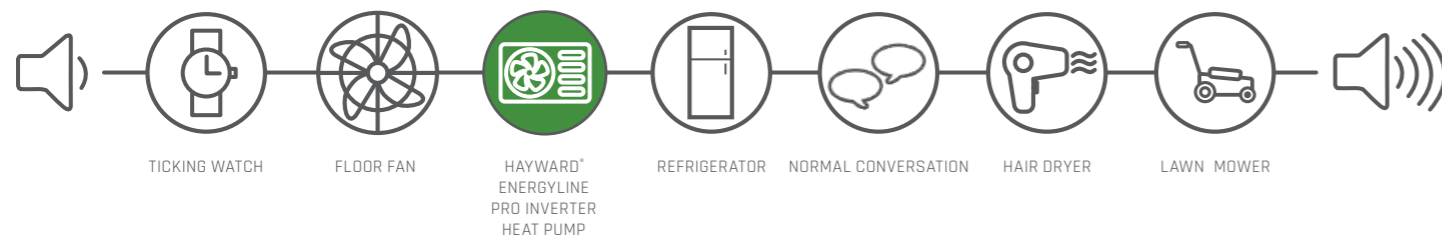
MUCH QUIETER THAN TRADITIONAL HEAT PUMPS

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



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.
- >> **DIGITAL COLOUR TOUCHSCREEN INTERFACE**
Shows real time power consumption for immediate feedback and control.



SPECIFICATIONS

MODEL	ELPI-9	ELPI-12	ELPI-17	ELPI-19.5	ELPI-24.5	ELPI-29
Heating Capacity*	9kW	12kW	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	13.0	16.0	20.0	25.9	11.3
Electrical Power Consumption (kW)*	0.16-1.6	0.21-2.12	0.30-3.02	0.37-3.94	0.46-4.80	0.54-5.57
C.O.P*	13.44-5.63	13.81-5.66	12.67-5.63	13.24-4.95	12.39-5.04	12.41-5.08
Electrical Connection	Hard Wired	Hard Wired	Hard Wired	Hard Wired	Hard Wired	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)	1000/435/767	1000/435/767	1150/485/868	1150/485/868	1150/485/1275	1150/485/1275
Net Weight (KG)	50	59	77	82	110	113
Max Water Pressure Loss (kPa)	4	4.5	5	6	11	15
Recommended Water Flow (Lpm)	55	70	88	110	143	167
Water Connection (PVC)	40mm	40mm	40mm	40mm	40mm	40mm
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A
Noise Level (dBA @ 1m)	40-50	42-52	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 DO I KNOW WHICH ONE IS RIGHT FOR ME?

North QLD / NT / North WA - ELPI Heat Pump Model Sizing Chart**

Heat up to and maintain Water Temperature at 28°C			
Pool Volume (m³)	All year round use - pool covered when not in use*	Extended season - pool covered when not in use*	Solar alternative/ replacement - pool covered when not in use*
25	ELPI-9	ELPI-9	ELPI-9
40	ELPI-12	ELPI-9	ELPI-9
55	ELPI-17	ELPI-12	ELPI-9
70	ELPI-19.5	ELPI-12	ELPI-9
85	ELPI-24.5	ELPI-17	ELPI-9
100	ELPI-29	ELPI-19.5	ELPI-12
120	ELPI-29	ELPI-24.5	ELPI-12
140	2 X ELPI-24.5	ELPI-29	ELPI-17

ELPI Heat Pump Model Sizing Chart for Spa Use**

Heat up to and maintain Water Temperature at 37°C	
Pool Volume (Litres)	All year round use - Spa covered for heat up and when not in use*
750	ELPI-9
1200	ELPI-12
1500	ELPI-17
1900	ELPI-17
2300	ELPI-17
2700	ELPI-19.5
3000	ELPI-19.5
3400	ELPI-24.5
3800	ELPI-24.5

NSW / Southern WA / South East QLD - ELPI Heat Pump Model Sizing Chart**

Heat up to and maintain Water Temperature at 25°C		
Pool Volume (m³)	Extended season - pool covered when not in use*	Solar alternative/ replacement - pool covered when not in use*
25	ELPI-9	ELPI-9
40	ELPI-12	ELPI-9
55	ELPI-12	ELPI-9
70	ELPI-17	ELPI-9
85	ELPI-19.5	ELPI-12
100	ELPI-24.5	ELPI-12
120	ELPI-29	ELPI-17
140	2 X ELPI-19.5	ELPI-19.5

VIC / SA / ACT / NZ - ELPI Heat Pump Model Sizing Chart**

Heat up to and maintain Water Temperature at 25°C		
Pool Volume (m³)	Extended season - pool covered when not in use*	Solar alternative/ replacement - pool covered when not in use*
25	ELPI-9	ELPI-9
40	ELPI-12	ELPI-9
55	ELPI-17	ELPI-9
70	ELPI-19.5	ELPI-12
85	ELPI-24.5	ELPI-12
100	ELPI-29	ELPI-17
120	ELPI-29	ELPI-17
140	2 X ELPI-24.5	ELPI-19.5

*Note:

- 1) For semi commercial or domestic applications where the thermal cover will be off the pool all day, seek expert site specific advice for sizing.
- 2) Extended Season is use from September to April.
- 3) Solar alternative/replacement use is from October to March.
- 4) Sizing based on mean season temperature with a minimum wind velocity of 11kph. Unit could run constantly for a week to reach set point temperature depending on weather conditions.
- 5) Regardless of how good any heat pump is, they all lose efficiency as the ambient air temperature falls. Therefore, For semi commercial or domestic applications where the setpoint temperature is critical or for all year round swimming, we recommend to install a Hayward gas fired pool/spa heater as a backup.
- 6) If pool volume is in between sizes on the chart move to the next largest volume for the recommended model.
- 7) Model sizing for Spas has been calculated using an average depth of 1m and is based on the mean daily maximum winter temperature for southern Australia, and for use on in ground or above ground insulated spas with the spa covered at all times with a thermal cover when not in use. Heat up is based on daytime running and could take up to 8 hours to meet temperature depending on the weather conditions.

**Note:

- 1) Model sizing has been calculated for in ground pools using an average pool depth of 1.3m with the pool covered at all times with a thermal blanket when not in use.

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