

# Heat Pumps

Traditional Series | AHN Series | ECO Series

Above-ground Pools / Inground Pools



## High-Performance Heating and Cooling All Season Long

Keep water temperatures at the perfect level with a high-performance Heat Pump from Intermatic. Our Traditional, AHN, and ECO Series solutions help homeowners extend the pool and spa season by providing reliable, energy-efficient temperature control.

[Intermatic.com](http://Intermatic.com)



# Traditional and AHN Series Heat Pumps

Bring energy efficiency and performance to pool and spa setups with our Traditional and AHN Series solutions. Perfect for above-ground and inground pool and spa applications, these heat pumps offer a range of helpful features, including titanium heat exchangers, a UV-resistant housing, PVC slip fittings for quick installation, and a user-friendly digital thermostat.

All models include self-diagnostic tools to monitor changes in performance and hydraulic levels, which helps lower operating costs and reduce maintenance issues. Keeping long-term performance a top priority, heat exchanger components within the series come with a lifetime limited warranty.

## Key Features

- Self-diagnostic tools
- Titanium heat exchanger
- Energy-efficient heat pump technology
- Quiet operation
- High temperature lockout feature
- AHRI Certified



**Dual Climate Controls**  
Digital interface allows for two separate temperature settings (pool/spa)



**Automated Self-Diagnostics**  
Built-in diagnostic indicator helps save energy and extends the unit's service life by alerting users to abnormal operating conditions



**Chiller Technology**  
Available with reversing valve functionality, which automatically heats or cools the pool to the desired temperature



**Durable UV-Resistant Condenser Design**  
Fade-proof thermoplastic housing protects from rust and impact damage



**Automation Ready**  
Compatible with remote system controllers



**Reliable Long-lasting Copeland™ Scroll Compressor**  
Ultra-quiet design minimizes operating noise



**Titanium Heat Exchanger**  
Includes vexed commercial-grade, corrosion-resistant titanium heat exchanger that stands up to the pool's chemical products



**Standard PVC Unions**  
2" Plumbing connections for easy installation

# ECO Series Heat Pumps

Bring efficiency and quiet performance to your pool and spa setup with our compact ECO Series Heat Pumps. The ECO Series uses unique inverter technology, which allows the heat pump to rapidly heat the pool until it reaches the desired temperature. Once the appropriate temperature is reached, the heat pump automatically switches from full capacity to a reduced speed to maintain temperatures while reducing energy consumption.

The compact ECO Series is designed to fit on pool pads of any size and is 40% quieter than standard heat pump options, running as low as 48 dB at 4 feet when maintaining pool temperature. It's an excellent choice for above-ground and inground applications and includes a variety of robust features, including a titanium heat exchanger and built-in Soft Start technology. Soft Start technology allows the heat pump to gradually increase electrical current at start-up, limiting the negative effects of high inrush currents and minimizing the strain on residential electrical systems and appliances.



ECO Series

## Key Features

- Energy-efficient Inverter compressor technology
- Small footprint - Ideal for compact space
- Spiral titanium heat exchanger
- Includes built-in Soft Start technology
- Quiet operation
- AHRI Certified



**Stronger COP Than Standard Single-Speed Heat Pumps**  
Average seasonal COP of 8 (compared to standard 5 rating)



**Superior Noise Reduction**  
40% quieter than standard Heat Pump technology

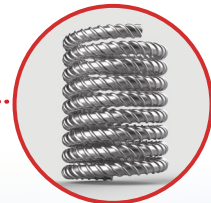


**Durable UV-Resistant Condenser Design**

Fade-proof thermoplastic housing protects from rust and impact damage



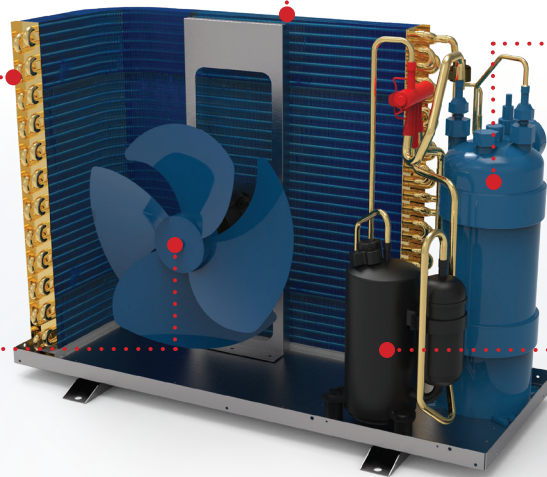
**Digital Control**  
LCD display



**Spiral Titanium Tube Heat Exchanger**  
Unique design increases surface area by 30%, promoting efficiency and durability



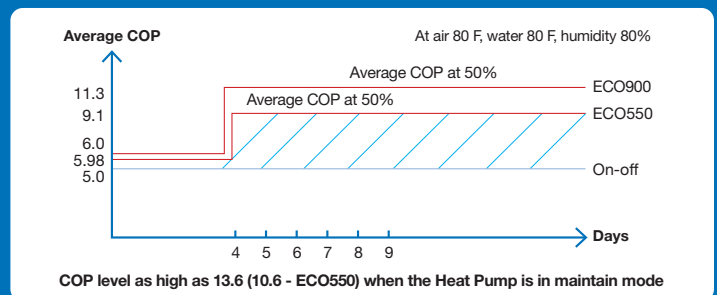
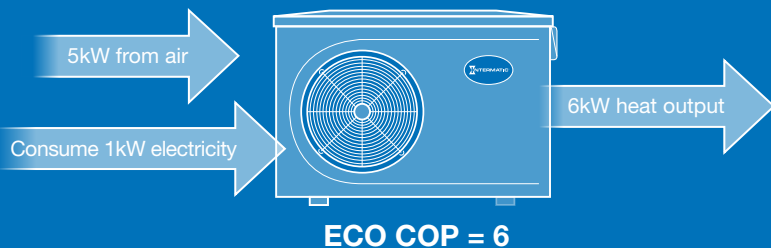
**Twin Rotatory Inverter Compressor**  
30-50% Reduction in the seasonal electrical cost



## What is the Coefficient of Performance (COP) and how does it affect operating costs?

In heat pumps and related systems, the Coefficient of Performance or COP refers to the ratio of heat delivered compared to the amount of energy required to produce that heat. A high COP indicates that a system is operating efficiently. In practice, the higher a heat pump's COP is, the less it will cost to operate.

$$\text{COP} = \text{Heating Capacity} / \text{Power Consumption}$$



# Specifications



Series	Traditional			AHN		ECO	
Model # (Heating)	PRO1100Q	PRO1300Q	PRO1500Q	PRO1100AHN	PRO1400AHN	ECO550	ECO900
Model # (Heating & Cooling)	-	PRO1300QHC	PRO1500QHC	PRO1100ARN	PRO1400ARN	-	-
Pools up to (Gallons)	28,000	35,000	45,000	28,000	35,000	16,000	24,000
Recommended Circuit Breaker	40 Amp	50 Amp	50 Amp	40 Amp	50 Amp	30 Amp	30 Amp
Operating Current	26 Amp	29 Amp	32 Amp	26 Amp	29 Amp	15.5 Amp	26 Amp
<b>Performance Testing Results*</b>							
COP <sup>1</sup>	5.5	5.8	5.6	5.5	5.8	5.9	6
Output <sup>1</sup> (BTUs)	110,000	127,000	140,000	110,000	127,000	50,000	90,000
COP <sup>2</sup>	5.3	5.3 / 5.2	5.3	5.3	5.3 / 5.2	5.5	5.7
Output <sup>2</sup> (BTUs)	104,000	118,000	130,000	104,000	118,000	47,000	85,000
COP <sup>3</sup>	4	4	4	4	4	4.1	4.3
Output <sup>3</sup> (BTUs)	74,000	79,000	84,000	74,000	79,000	29,000	43,000
Minimum Water Flow Rate	25 GPM			25 GPM		-	
Maximum Water Flow Rate	80 GPM			80 GPM		-	
Recommended Water Flow Rate	40-80 GPM			40-80 GPM		26-40 GPM	33-50 GPM
Input Voltage	208-230 VAC, 60 Hz			208-230 VAC, 60 Hz		208-230 VAC, 60 Hz	
Refrigerant	R410A			R410A		R410A	
Compressor Type	Scroll			Scroll		Rotary	Inverter
Heat Exchanger	Titanium			Titanium		Titanium	
Temperature Control	Digital			Digital		Digital	
Remote Compatibility	2 & 3 Wire			2 & 3 Wire		2 Wire	
Dimensions (H x W x D)	45" x 33" x 36"			39" x 35" x 35"	43" x 35" x 35"	26" x 38" x 12 1/2"	15 1/2" x 43" x 38"

\*BTU and COP ratings in accordance with AHRI 1160 Performance Test Standard

<sup>1</sup> Test Conditions: 80° F ambient air, 80° F water, 80% Relative Humidity

<sup>2</sup> Test Conditions: 80° F ambient air, 80° F water, 63% Relative Humidity

<sup>3</sup> Test Conditions: 50° F ambient air, 80° F water, 63% Relative Humidity