

# SumHeat

## The Highest-Performing Pool Heat Pumps



- ♦ High Performance
- ♦ Quiet
- ♦ Energy efficient



**Silent System**

# Quality Components. Increased Performance.



## Smart Starter

Electronic self-starter. It allows to restrict the intensity to 45A in the starting of the compressor.



## Electronic Temperature Control

Electronic controlling of the temperature by microprocessor.



## Silent System

- ⇒ Swept-wing fan
- ⇒ Exclusive soundproofing
- ⇒ High-efficiency Scroll compressor



## Titanium Heat Exchanger

Equipped with three main characteristics - high durability and excellent resistance to corrosion, it provides superior thermal exchange. Lifetime Warranty.

## Thermoplastic resin cabinet

Anti-corrosive, treated against UV. Very Attractive.

## Heating Priority Function.

Thanks to the new Heating Priority Function, our SumHeat Heat Pump will control the filtration pump in order to have a correct pool temperature.

A pool Heater is a worthwhile investment that increases the value of your swimming pool and extends your bathing season - from the first signs of spring to cool autumn evenings. So that you get the most out of your pools, our Heat pump SumHeat are innovative product that combine the finest electrical and mechanical components in the industry decreasing energy consumption and reducing running costs. SumHeat pool heaters offer a multitude of characteristics that place them beyond industry standards.

## SumHeat - Silent System in detail



## Silent System



### Sound proofing that is exclusive to SumHeat

The accoustical protector developed by our team returns the Heat Pump SumHeat extremely silent, over and above to protect the compressor of bad weather.



### Rounded air intake conduit

Facilitates air intake reduces noise and increases energy efficiency.

### New ventilation system

Our new, patented swept-wing fan design increases airflow while reducing the amount of electricity used by the motor and the soundlevel by 5 or 6 decibels.



### High-efficiency Scroll compressor

The quietest and most durable on the market. It generates 10% more energy than a piston compressor with 70% fewer moving parts.

## Care of assemblage



### Handles

Molded handles allow easy transportation and handling of the pool heater.



### Connectors

Unions located party low of the Heat Pump unscrew, what makes easier the complete draining of water.



### Completely sealed fan motor

A completely sealed, permanently lubricated bearing system provides reliable functioning that requires no maintenance.



### Proven filter

Provides extra protection against humidity and contaminants.

# SumHeat : Excellence in Pool Heat Pump Heaters

## A performing profit !

The heat pump's energy performance results in the ratio between the quantity of heat released consumed by the compressor.

**Measured at an ambient temperature of 5°C (41°F), SumHeat heat pumps generate a COP superior to 4, meaning that they produce 4 times more energy than they consume.**

Consequently, our SumHeat pumps are "Naturally Hayward".



## SumHeat Silent System technology: 3 times quieter than the competition.

Audio testing in compliance with ARI standards ( the most strict standard of mondial market) confirms that SumHeat pool heaters produce a greatly reduced level of noise, thanks to the SumHeat Silent System! This technology combines the efficiency of the Scroll compressor, which is 3 times quieter than a piston compressor, and a swept-wing fan design that increases the flow of air while reducing the amount of electricity used by the motor and the sound level by 5 or 6 decibels. Our brand's exclusive acoustical protector also contributes to the equipment's quietness and protects the compressor in adverse weather conditions.



**Silent System**

## Among the highest precision in electronic temperature control.




The electronic control board allows you to adjust the water temperature in your swimming pool with great precision. In addition to providing a constant level of heat, thanks to control settings that are accurate to within 0.5°, this system ensures optimal energy performance for your pool heater in outside temperatures as low as 5°C. It is also equipped with an electronic defrost system, separate controls for swimming pools and spas, and it is compatible with external control systems. In addition, its integrated diagnostic analysis system allows the equipment's performance to be adjusted and also simplifies maintenance.

## Technology comparison chart

# 43% of heated pool owners have opted for a heat pump as a pool heater

It is the most effective, worthwhile and economical system for maintaining the water of your pool at a constant temperature at any time, day or night!

## Technology comparison

	Advantages	Drawbacks
Heat Pump 	<ul style="list-style-type: none"><li>• Minimal operating cost</li><li>• Keeps the water at the required temperature</li><li>• Clean, ecological and safe</li><li>• Maintenance-free</li><li>• Quiet</li><li>• Easy to use</li><li>• Highly precise control</li></ul>	<ul style="list-style-type: none"><li>• Loss of efficiency when the temperature is below 5°C or 40°F</li><li>• Investment upon purchase</li></ul>
Electricity 	<ul style="list-style-type: none"><li>• Low investment cost</li><li>• Clean, ecological and safe</li><li>• Small size</li><li>• Maintenance-free</li></ul>	<ul style="list-style-type: none"><li>• High operating cost</li><li>• High installation cost (requires a 75 amp breaker for the 15 kw heater)</li><li>• Inaccurate mechanical thermostat</li><li>• Likely to corrode easily</li></ul>
Propane 	<ul style="list-style-type: none"><li>• Low initial investment (purchase)</li><li>• Heats fast</li><li>• Can be used in any temperature</li></ul>	<ul style="list-style-type: none"><li>• High installation cost</li><li>• Tank rental</li><li>• Very cumbersome and unsightly tank</li><li>• Foul smell</li><li>• Regular propane delivery required</li><li>• Inaccurate thermostat control</li></ul>
Oil 	<ul style="list-style-type: none"><li>• Heats fast</li><li>• Can be used in any temperature</li></ul>	<ul style="list-style-type: none"><li>• High initial investment</li><li>• Very cumbersome tank</li><li>• Foul smell</li><li>• Corrosion</li><li>• Inaccurate thermostat control</li></ul>
Solar 	<ul style="list-style-type: none"><li>• Low operating cost</li><li>• Low sensitivity to corrosion and chemicals and chemicals</li><li>• Clean and safe</li><li>• Low maintenance</li></ul>	<ul style="list-style-type: none"><li>• Investment upon purchase</li><li>• No temperature control</li><li>• Requires automatic stopping system to avoid cooling of the water</li><li>• High installation cost</li><li>• Damage to the roof throughout the years</li></ul>

## SumHeat products specifications

SumHeat offers a wide range of high-quality products that exceed industry standards, are made with the finest components on the market and ensure unparalleled performance.

Item	SHE1101	SHE1401	SHE1403	SHE1901	SHE1903	SHE2403	SHE3003
Air 27°C - RH% 80 - Pool Temperature 27°C - COP	11 kW - 5,4	14 kW - 5,8	14 kW - 5,8	19,5 W - 5,8	19 kW - 5,6	24 kW - 5,3	29 kW - 5,4
Air 15°C - RH% 80 - Pool Temperature 20°C - COP	8,7 kW - 5,1	11 kW - 5,4	11 kW - 5,4	16 kW - 5,5	14,9 kW - 5,2	19,5 kW - 5,1	24 kW - 5
Air 5°C - RH% 80 - Pool Temperature 15°C - COP	6,5 kW - 4,2	8,5 kW - 4,5	8,5 kW - 4,5	12,3 kW - 4,6	11,4 kW - 4,5	14,9 kW - 4,3	18,7 kW - 4,1
Voltage Hz / Ph	230V~/1Ph/ 50 Hz	230V~/1Ph/ 50 Hz	400V~/3Ph/ 50 Hz	230V~/1Ph/ 50 Hz	400V~/3Ph/ 50 Hz	400V~/3Ph/ 50 Hz	400V~/3Ph/ 50 Hz
Power Supply <sup>(1)(2)</sup> Watt	2 033	2 422	2 405	3 406	3 355	4 473	5 350
Running Amperage <sup>(2)</sup>	9	10,9	4,4	13,3	5,3	7	11,6
Required Breaker aM Type	16	16	10	20	10	10	16
Compressor Type	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Gas type	R410A	R407C	R407C	R407C	R407C	R407C	R410A
Heat Exchanger	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC	Titanium/PVC
Heating Range (°C)	15°C/35°C	15°C/35°C	15°C/35°C	15°C/35°C	15°C/35°C	15°C/35°C	15°C/35°C
Plumbing Connection mm	63 mm	63 mm	63 mm	63 mm	63 mm	63 mm	63 mm
Flow Rate Range m <sup>3</sup> /h	3,5 à 23 m	3,5 à 23 m	3,5 à 23 m	3,5 à 23 m	3,5 à 23 m	3,5 à 23 m	3,5 à 23 m
Nominal Flow Rate m <sup>3</sup> /h <sup>(3)</sup>	4,5	6	6	8	8	10	12
Dimensions (in mm)	H : 737 L : 762 P : 864	H : 737 L : 762 P : 864	H : 737 L : 762 P : 864	H : 940 L : 762 P : 864	H : 940 L : 762 P : 864	H : 940 L : 762 P : 864	H : 1 118 L : 762 P : 864
Weight (in Kg)	75	77	77	86	86	98	121
Exclusive Noise Reducing Ventilation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Electronic self-starter	No	Yes	No	Yes	No	No	No
Heating Priority Function	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<sup>(1)</sup> Power Supply announced subjected to the test conditions of line 1 (Air 27°C - RH% 80 - Pool Temperature 27°C)

<sup>(2)</sup> Power supply and Running amperage are  $\pm$  10%

<sup>(3)</sup> Powers are indicated to nominal flow rate

## Choose the right Heat Pump Model

### In Ground Pools

m<sup>3</sup>

Use of  
Solar Blanket

Sunny  
Aera

Shady  
Aera

0 - 50	SHE1101	SHE1101	SHE1101 / SHE1401
45	SHE1101 / SHE1401	SHE1101 / SHE1401	SHE1401
60	SHE1401	SHE1401	SHE1401
70	SHE1401	SHE1401	SHE1401/SHE1903/01
80	SHE1903/01	SHE1903/01	SHE1903/SHE2403
100	SHE2403	SHE2403	SHE2403
120	SHE2403	SHE2403	SHE2403/SHE3003
140	SHE2403	SHE3003	SHE3003
160	SHE3003	SHE3003	SHE3003