



we have a way with water

Nirvana Heat Pump



**NIRVANA**  
HEAT PUMP

# our mission

*Innovative thermodynamic solutions for the benefit of people*

« At Nirvana, our commitment is based on the improvement of performance and reliability of our products. Manufactured in Canada, our product is sure to meet and exceed your expectations. »

- Michel Lesage, President

Nirvana heat pumps offers a wide variety of models that will meet your needs and leave you with comfort and peace of mind.



## a response to major environmental concerns

A heat pump is the most environmentally friendly way to heat a swimming pool. It does not burn fossil fuels like gas or oil. The conventional pool heaters (electric resistance, natural gas, oil and propane) must convert the electricity or fuel into heat energy (Kw of heat). The transformation process represents an expenditure and contributes to the emission of greenhouse gases and global warming. The Nirvana not only saves you money, it greatly reduces your carbon emissions.



# performance and quality you demand

## high performance components

### ▪ The heat exchanger

Our hand crafted heat exchanger is manufactured from first grade titanium to produce optimal heat transfer. It resists corrosion and erosion from water conditioning and is equally effective on swimming pools equipped with a salt system.

### ▪ The compressor

Scroll compressor technology provides the Nirvana with unparalleled efficiency along with a quiet, sustainable and proven reliability.

### ▪ Thermostatic valve

The thermostatic valve regulates the supply of refrigerant to the evaporator based on weather conditions to obtain maximum energy return.

## features and benefits

- **Ultra resistant Composite cabinet** - provides durability and easy care\*
- **Fan blades** - designed to reduce noise
- **Oversized Blue Fins evaporator** - for better performance
- **Compressor acoustic cover** - protects and reduces noise\*
- **R410A Refrigerant** - clean and efficient
- **Electronic control board** - easy to use
- **Pressure gauge** - shows the flow of water required\*
- **Defrost** - electronic and intelligent
- **Circulation pump control** - for electric consumption reduction
- **Heat exchanger Titanium** - Double coil - insulated for more performance\*
- **Refrigeration system discharge** - insulated to increase performance\*

## want even more heat

Our reversible Nirvana will provide comfort and warm water well beyond summer temperatures. Working at temperatures as low as the freezing point, it is perfect for indoor pool and for those who wish to extend the pool usage. (Allow the use of heat pump at lower temperature than the S series unit).

\* Except S30 and S50

# technical data nirvana 2011

performances  
validated by

**Intertek**

| NIRVANA TECHNICAL INFORMATION            |      |                       |              |              |              |              |              |                        |              |              |               |
|--|------|-----------------------|--------------|--------------|--------------|--------------|--------------|------------------------|--------------|--------------|---------------|
| MODELS                                   |      | S30                   | S50          | S60          | S75          | S95          | S116         | N75                    | N95          | N116         | H95           |
| 80/63/80 (AHRI) <sup>1</sup>             | KW/h | 10                    | 14           | 16           | 21           | 28           | 34           | 20                     | 26           | 32           | 27            |
|  | COP  | 5,7                   | 5,4          | 6,2          | 6,1          | 6,1          | 6            | 5,8                    | 5,7          | 5,9          | 5,8           |
| 50/63/80 (AHRI) <sup>2</sup>             | KW/h | 6,4                   | 9,3          | 11,7         | 14           | 20,1         | 24           | 14                     | 18           | 22           | 18,5          |
|  | COP  | 3,9                   | 3,8          | 4,6          | 4,3          | 4,4          | 4,3          | 4                      | 4            | 4,3          | 4,1           |
| Refrigerant                              |      | R410A                 |              |              |              |              |              |                        |              |              |               |
| Max breaker size                         |      | 20                    | 30           | 30           | 40           | 50           | 50           | 10                     | 15           | 15           | 50            |
| Amps                                     |      | 7,2                   | 10,3         | 12,2         | 15,5         | 17,9         | 23,7         | 6                      | 7,7          | 9            | 18,5          |
| Cooling capacity                         |      | N/A                   |              |              |              |              |              |                        |              |              |               |
| Heat Exchanger                           |      | Titanium-double coil  |              |              |              |              |              |                        |              |              |               |
| Defrost mode                             |      | Passive               |              |              |              |              |              |                        |              |              |               |
| Control board                            |      | Digital               |              |              |              |              |              |                        |              |              |               |
| Compressor type                          |      | Scroll                |              |              |              |              |              |                        |              |              |               |
| Voltage                                  |      | 240V / 50Hz / 1 phase |              |              |              |              |              | 380V / 50Hz / 3 phases |              |              | 240V/50Hz/1ph |
| Cabinet                                  |      | Co-polymer            |              |              |              | Composite    |              |                        |              |              |               |
| Water flow (m <sup>3</sup> /h) min.-max. |      | 10-18                 |              |              |              |              |              |                        |              |              |               |
| Noise 3m (db)                            |      | 48                    | 49           | 51           | 53           | 53           | 53           | 53                     | 53           | 53           | 53            |
| Dimensions (inch)<br>(H x W x L)         |      | 30 X 35 X 33          | 34 x 35 x 33 | 35 x 35 x 33 | 39 x 35 x 33 | 41 x 35 x 33 | 45 x 35 x 33 | 39 x 35 x 33           | 41 x 35 x 33 | 45 x 35 x 33 | 49 x 35 x 33  |
| Weight (kg)                              |      | 65                    | 70           | 75           | 105          | 109          | 110          | 105                    | 109          | 110          | 112           |
| Water connection                         |      | 1,5 inch              |              |              |              |              |              |                        |              |              |               |
| Pool size (m3)                           |      | 0 to 50               | 40 to 60     | 50 to 75     | 70 to 90     | 90 to 110    | 120 and +    | 80 to 100              | 100 to 120   | 120 and +    | 100 to 120    |

<sup>1</sup> Standard AHRI1160 (high temperature) tests are conducted at ambient temperature of 80.6 F, 63 % RH, 80 °F water temperature and water flow of 1,7 l/m per 1000 btu/h

<sup>2</sup> Standard AHRI1160 (low temperature) tests are conducted at 50 °F ambient temperature, 63 % RH, 80 °F water temperature and water flow of 1,7 l/m per 1000 btu/h

## the effectiveness?

A heat pump differs from other methods of pool heating by transferring heat from the ambient air to the pool water. By capturing such heat, it generates a coefficient of performance (COP), which gives a yield of 620 % compared the traditional pool heaters.

## warranty

| WARRANTY NIRVANA |                  |
|------------------|------------------|
| COMPONENTS       | COVERAGE         |
| Labor            | 3 years          |
| Parts            | 3 years          |
| Compressor       | 5 years          |
| Titanium coil    | 10 years limited |
| Cabinet          | 15 years limited |



add piece of mind  
and economy



renewable energy  
**ECOENERGY**  
ECONOMICAL  
**green energy**



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