



HYDRO

R O Y A L

SWIMMING POOL HEAT PUMPS

Exceeding Expectations *Every Step of the Way*

The High Efficiency, Ultra- Quiet Heat Pump Series

The Absolute Highest Standard of Manufacturing Quality

The entire family of Hydoroyal™ Heat Pumps is manufactured with the highest quality components, state of the art testing and come with AHRI Performance Certification.

Investment Payback

A swimming pool is an investment and Hydoroyal heat pumps double the value you get from your investment by making it warm and enjoyable for more days per year and more hours per day.

Extend your swimming season and get the most out of your pool. Your family can exercise, relax, swim and entertain in warm water even on cooler days.

Save Money

The most efficient way to heat your pool. Hydoroyal heat pumps are environmentally friendly and provide lower operating costs.

Save Energy

Specially designed State of the Art TXV (Thermal Expansion Valve) has been optimized for the new, environmentally friendly refrigerant R-410A. It precisely regulates the flow of refrigerant through our patent pending coil to achieve maximum efficiency at lower temperatures, allowing lower cost of operation.

Titanium Heat Exchanger

Impervious to corrosion and erosion, our heat exchangers provide maximum efficiency and performance for heat exchange. All 2" plumbing to maintain full water flow.

Rifled Titanium Design

The heat exchangers feature a unique rifled design allowing for maximum surface contact between your pool and the heat source. The tight rifling allows for more efficiency by reducing weight, waste and materials cost.

Scroll Compressor

Silent scroll technology uses minimal energy to achieve maximum output. Combined with low speed fan, lower RPM's use less energy and operate at lower sound and vibration levels making Hydoroyal heat pumps super quiet.

Performance & Efficiency

The Maximum Heat for Minimal Cost

Patented Refrigerant Metering System for more efficiency and better performance, especially in colder weather. Also works in conjunction with our Thermal Expansion Valve and our patent-pending coil design.

The Evaporator Coil is super sized, meaning more square-footage of coil with higher performance in colder weather.

Features and Benefits *For Complete Pool Pleasure*

Intelligent Control

Customize operation with the most comprehensive control board available

Solar Hybrid Operation Capability

Our REVOLUTIONARY control board's dual sensor detects and controls operation of your pool solar system and allows your heat pump to operate when the solar isn't meeting your demands.

Personal Preferences

Habla-Español? Parlez-vous Français? Choose from English, German, Spanish, French and Portuguese for your heat pump.

- Display in Celcius or Fahrenheit.
- Digital lockout feature keep renters or children from zadjusting controls.

Even Heat Option

Keeps your pool warm consistently 24 hours a day.

Dual Thermostat

Set two separate temperatures for pool and spa.

Self-Diagnostic Display

Back Lit LCD displays information if a problem occurs. Displays information in real words, not confusing codes.

Compatible With All Automation Systems

Whether you have an existing automation system, or are considering adding remote control, the Hydroyal is designed to work with ANY automation system. Hook up is quick and simple.

Superior Design & Testing

Every Component, every unit factory-tested

Mass Flow Metering System

Changes the unit automatically for perfect operation and performance.

Accurate volume to 1/100th of an ounce.

Durable ABS Plastic Cabinet

No rust, wipes clean.

Automated Helium (He) Testing

100 times more sensitive to leak detection than all of our competitors.

Virtually eliminates any refrigerant loss and ensures your heater's performance.

Diagnostic Display Board

Identifies potential problems, in real words, not code.

Interlocked Testing Stations

Every unit must pass every quality test before it can move down the line.

Linking every test ensures a perfect unit every time.

Ultra Quiet

Higher quality components and smarter design make for a whisper quiet unit

Designed for Peaceful, Quiet Operation

- Ultra-quiet low speed fan.
- Lower RPMs use less energy and make for quieter operation.
- Ultra-quiet scroll compressor.
- Sound dampening heat exchanger.
- As low as 56 Decibels at full operation.



Model Specifications and Performance Data

HR 5-RA UNIT ONLY AVAILABLE IN FLORIDA
80/80/80: BTU: 65,000. COP: 6.0
OUTSIDE ARI STANDARD

MIN AMPS /MAX BREAKER: 29/30 DIMENSIONS" (SHIPPING): 31 x 31 x 30 (33 x 31 x 35) WEIGHT (SHIPPING): 200-235 LBS

AHRI CERTIFIED TEST RESULTS
80/63/80: BTU: 60,000 - COP: 5.8
50/63/80: BTU: 44,000 - COP: 4.0

HR 90-RA
80/80/80: BTU: 90,000. COP: 6.3
OUTSIDE ARI STANDARD

MIN AMPS /MAX BREAKER: 36/40 DIMENSIONS" (SHIPPING): 31 x 31 x 34 (33 x 31 x 39) WEIGHT (SHIPPING): 210-245 LBS

AHRI CERTIFIED TEST RESULTS
80/63/80: BTU: 84,000 - COP: 5.8
50/63/80: BTU: 56,000 - COP: 4.0

HR 110-RA
80/80/80: BTU: 110,000. COP: 6.4
OUTSIDE ARI STANDARD

MIN AMPS /MAX BREAKER: 37/40 DIMENSIONS" (SHIPPING): 31 x 31 x 38 (33 x 31 x 43) WEIGHT (SHIPPING): 218-253 LBS

AHRI CERTIFIED TEST RESULTS
80/63/80: BTU: 99,000 - COP: 6.0
50/63/80: BTU: 66,000 - COP: 4.1

HR 125-RA Available in 3-Phase and Heat & Cool
80/80/80: BTU: 120,000. COP: 6.3
OUTSIDE ARI STANDARD

MIN AMPS /MAX BREAKER: 37/50 DIMENSIONS" (SHIPPING): 31 x 31 x 38 (33 x 31 x 43) WEIGHT (SHIPPING): 218-253 LBS

AHRI CERTIFIED TEST RESULTS
80/63/80: BTU: 109,000 - COP: 5.9
50/63/80: BTU: 74,000 - COP: 4.1

HR 150-RA Available in 3-Phase
80/80/80: BTU: 136,000. COP: 6.0
OUTSIDE ARI STANDARD

MIN AMPS /MAX BREAKER: 37/50 DIMENSIONS" (SHIPPING): 32 x 32 x 40 (34 x 32 x 45) WEIGHT (SHIPPING): 222-257 LBS

AHRI CERTIFIED TEST RESULTS
80/63/80: BTU: 124,000 - COP: 5.4
50/63/80: BTU: 85,000 - COP: 4.0

HEAT EXCHANGER: 100% Titanium
COMPRESSOR: Scroll
MIN /MAX FLOW: 20/70 Gallons
PLUMBING SIZE: 2"
RECOMMENDED FLOW: 45 Gallons
ADDITIONAL SPECS: See Individual Units

ALL UNITS AVAILABLE IN 50 HZ



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