



HYDRO
ROYAL



**Aquaculture Breeder Air to
Water 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 Heat Pumps is manufactured with the highest quality components, state of the art testing and come with AHRI Performance Certification.

The Advantages of Controlled Water Environments:

- Increased yields, faster growth rate, faster grow-out cycles.
- Healthier fish, higher reproduction rates, lower mortality rates.
- Reduced fingerling purchases.
- Increased fry recovery.
- Ideal for adjusting temperatures to maximize growth cycles.

Save Money

The most efficient way to heat or cool your tank. Hydro Royal 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 safe for fish. Our heat exchangers provide maximum efficiency and performance for heat exchange. All have 2" plumbing connections to maintain full water flow.

Rifled Titanium Design

The heat exchangers feature a unique rifled design allowing for maximum surface contact between your tank 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 Hydroyal 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.

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

Features and Benefits



Intelligent Control

Customize operation with the most comprehensive control board available

Personal Preferences

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

- Display in Celsius or Fahrenheit.
- Digital lockout feature keep temperature settings protected.

Even Heat Option

Keeps your tank warm consistently 24 hours a day.

Dual Thermostat

Set two separate temperatures.

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, ... HysJrroyal is designed to work with A. auto tion 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.
- SolJld dampening heat exchanger.
- As low as 56 Decibels at full operation.



Model Specifications and Performance Data

HR 110-RA

80/80/80: BTU: 115,000. COP: 6.8
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: 125,000. COP: 6.6
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: 142,000. COP: 6.2
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

The HYDRO ROYAL BREEDER HEATER SERIES is designed specifically for the Aquaculture industry. They are available to meet all electrical requirements from 208 volts to 575 volts, from single phase to 3 phase and also 50 or 60 hertz.



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the USA