



# NP Series



## Seresco's NP Series Dehumidifiers The Evolution of Dehumidifier Technology



“Our dream was to build a dehumidifier that solved the industry’s most challenging issues”

## Imagine

- ...a dehumidifier that uses only a fraction of the refrigerant charge required in traditional systems
- ...factory sealed refrigeration even on split systems
- ...the most stable room conditions, smoothest operating performance and peak energy efficiency
- ...no limitations on the remote AC cooler location
- ...the longest lasting and most reliable dehumidifier in the industry

*That’s what we imagined  
...when we created Protocol Technology*

## NP Series Dehumidifiers

Our revolutionary NP or Natatorium Protocol series is the biggest industry innovation in 20 years and the future of dehumidification.

A traditional natatorium dehumidifier requires a large refrigerant charge that is not just expensive, but also leads to oil and refrigerant migration control challenges that can impact compressor reliability. Traditional split systems also severely limit the distance between the unit and its remote AC condenser.

Through the use of a secondary heat exchange fluid, our ingenious NP Series overcomes both of these issues and more. Our NP series also provides superior humidity control, exceptional reliability and lower operating costs, with as little as 1/6th the traditional refrigerant charge.

For applications requiring 100 to 840 lbs/hr hour of moisture removal or 6,800 CFM to 70,000 CFM of air handling, our NP Series beats the competition hands down – in every design consideration – every time!

## Seresco’s Online Pool Design Resources

Looking for natatorium design insights, tips and checklists? Seresco’s Natatorium Design Guide is available online for instant reference as well as in a downloadable PDF format from our website.

Seresco also provides a non-commercial, professional development training video on natatorium design that allows those who watch to earn a PDH certificate.

For valuable pool design resources and our PDH training video visit:

**[SerescoDehumidifiers.com/Engineers](http://SerescoDehumidifiers.com/Engineers)**





## Protocol Advantages

- The ultimate in stable indoor air conditions through fully modulating reheat
- Tried and proven technology – dry coolers have been used in the precision air conditioning industry for decades
  - Seresco's innovations make this available for natatorium dehumidification
- Factory sealed refrigeration circuit – no expensive site refrigeration work
- Greatly reduced cost of ownership
  - Up to 85% less refrigerant charge!
  - Significantly less cost to install and maintain compared to alternative refrigerant systems
  - Compliant with ASHRAE Standards 15 & 34
  - Less refrigerant means lower environmental risk and additional LEEDs points
- Energy efficient: Seresco's proprietary heat rejection design makes the Protocol series 5-7% more efficient compared to all traditional DX systems throughout the year
- All seasonal refrigerant and oil migration issues to the outdoor condenser are totally eliminated
  - Decreased risk of compressor damage
  - Lower maintenance costs
- Air cooled AC heat exchanger uses only one set of PVC pipes instead of a copper line set for each compressor
  - Greatly simplified installation
  - Reduced labor and material costs
  - Threat of copper pipe theft is eliminated
- Air cooled AC heat exchanger can be located a considerable distance from the unit
  - Greater installation flexibility for split system configurations
- Available as indoor split or outdoor packaged (or split) system
- Can be equipped with auxiliary air heating, and a variety of ventilation options including purge, air conditioning and heat recovery
- Fully compatible with Paddock Evacuator™

## NP Series



See details, videos and more at:  
[SerescoDehumidifiers.com/NPseries](http://SerescoDehumidifiers.com/NPseries)

## WebSentry® for Ultimate Peace of Mind

Our WebSentry® Monitoring technology redefines the concept of service and support by remotely monitoring, analyzing and reporting on all the critical functions of your dehumidifier 24/7 – in real time via the Internet. Should maintenance be required or trouble alerts occur, WebSentry® will email your designated service personnel who have immediate, secure remote online access to your unit. Should your service technicians require assistance, Seresco's factory service experts are ready to help.

Learn all the details and see it in action at:

[SerescoDehumidifiers.com/WebSentryTechnology](http://SerescoDehumidifiers.com/WebSentryTechnology)

- Robust online reporting of real-time performance data
- Standard on every Seresco dehumidifier at no extra cost
- Simple plug and play Ethernet connection, optional WiFi/cellular
- Secure access and control via computer, tablet or smart phone
- Connection activates premium extended 1<sup>st</sup> year labor warranty (Conditions apply, see Warranty Statement for details)
- Factory or authorized service technicians fine tune unit performance remotely
- Automated performance monitoring with trouble alerts, service reminders and performance data sent by email

# Renowned Industry Leading Technology & Innovation

**Seresco** builds each and every dehumidifier with technology and features that set the industry standard for performance, reliability and value. For applications ranging from small indoor spas to massive waterparks, we manufacture the largest, most comprehensive product line available. Compare us to the competition and you'll see instantly why we're the #1 choice for discriminating customers!



## Superior System Design

### Protocol Series with up to 85% Less Refrigerant Charge

- Smoothest, most stable room control in the industry
- Easiest and most cost effective installation possible
- Lowest operating and maintenance costs
- Longest lifetime expectancy of any pool dehumidifier

### Ultra Compact Designs

- Twice the capacity in half the footprint (200 Series)
- Retrofit designs for on-site assembly
- Flexible cabinet designs for air supply and service access
- Packaged or split system options

### Superior Compressor Performance

- Advanced refrigeration pressure monitoring and control technologies, unique to Seresco, ensure optimum compressor operation and protection



## Advanced Control Systems

### WebSentry® Technology

- Robust online reporting of real-time performance data
- 24/7 Performance monitoring
- Factory supervised startup and support via the Internet
- Automated maintenance and system alerts by email
- Browser-based and smart phone access and control

### WebSentry® Premium Extended Warranty

- Unrivaled 1-year labor warranty (2-year parts)  
(Conditions apply, see Warranty Statement for details)

### CommandCenter® Control Systems

- The most sophisticated and powerful controller in the industry controlling over 100 performance parameters
- Sophisticated touch screen operator panel
- BACnet, LonWorks and Modbus connectivity

### Built-In Refrigerant Pressure Transducers

- 24-7 Monitoring of critical suction and discharge pressures to ensure optimal system performance



## Exceptional Energy Efficiency

### Direct Driven, Backward Inclined Airfoil Plenum Fans

- Powerful, quiet, efficient, reliable
- No belts to adjust, wear out or replace
- ECM motors or VFD
- Allows for factory installed auxiliary air heating

### Energy Recycling Systems

- Free pool water heating with recycled energy
- Heat recovery on ventilation air



## Maximum Corrosion Resistance

### Separate Mechanical Vestibule

- Virtually all components are out of the corrosive air stream

### Fully Dipped Coils

- 100% protected against corrosion

### Corrosion Resistant Design, Finishes & Components



## Easy to Service

### Mechanical Vestibule Outside Air Stream

- On all units
- Easy to service even during unit operation

### WebSentry® Remote Analysis & Control

- Instant factory analysis and service capability via the Internet
- Detailed performance logs available online
- Service technicians have smart phone access and control

