



## Seresco Indoor Pool Dehumidifiers

Unrivaled Performance, Reliability and Value

# Dehumidification is Serious Business

Natatorium environment control is a complex business with serious energy, comfort, health, and safety considerations. Heat, humidity and chemicals in pools combine to create harsh environments that are hard on buildings and hard on equipment.

Providing a safe, healthy and comfortable pool environment while minimizing operating costs and delivering the best possible air quality is no simple task.

The system design and equipment must perform reliably, day in and day out, with minimum energy consumption and maximum energy recovery to provide precision control of the environment, no matter what the ambient temperatures or pool activity level.

That's why Seresco has become the #1 choice of discriminating engineers, contractors and pool owners.

COLLEGE CENTER  
SCHOOL HOTELS  
FITNESS COMPETITION  
WHIRLPOOLS  
SWIMMING COMPETITION  
HOME WATER PARKS  
UNIT RESIDENTIAL  
AQUATIC YMCA  
WATER PARK FITNESS CENTER  
BY HEALTHY SPA  
PHYSICAL CENTER  
INSITUTIONAL COMFORTABLE  
DEHUMIDIFICATION



# Not Just Another Dehumidifier

From engineering and design support, to building the toughest, most sophisticated and energy efficient products in the world, Seresco provides clients with end-to-end solutions that deliver outstanding performance, value—and the absolute lowest cost of ownership in the industry.

Each of our product lines is uniquely engineered for peak performance in a particular environment or geographic location. And only Seresco provides our revolutionary WebSentry® Technology to remotely monitor and control your dehumidifier performance 24-7 via the internet. That's how we ensure peak performance long after our equipment leaves our factory. Its also why we can back every unit with the best warranty in the industry.

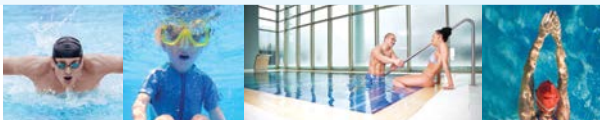
No other dehumidifier company even comes close!  
See for yourself at **[SerescoDehumidifiers.com](http://SerescoDehumidifiers.com)**



## Dehumidifiers Designed Specifically for Every Size of Pool and Every Climate

Seresco builds four unique product lines that deliver peak performance for every size pool, in every climate zone. With unit performance capacities ranging from 10 to 840 lbs/hr of moisture removal and 650 to 70,000 CFM of air handling, you'll find Seresco in water parks, Olympic pools, universities, YMCAs, schools, hotels, motels, spas and homes, from coast to coast, throughout North America.

Our dehumidifier designs incorporate the latest technological advancements in fan design, corrosion protection and precision control systems. We offer a wide range of options including heat recovery and pool water heating as smart ways to recycle energy. Each unit is also built to the highest standards in the industry, with a long and impressive list of standard features that beat the competition hands down.



# The Broadest Product Line in the Industry



## NE NE Series Dehumidifiers



Our NE series dehumidifier is what launched Seresco to the forefront of dehumidifier manufacturers. We were determined to build not just an improved dehumidifier, but a dehumidifier that was better in every way possible – and we did! From the smallest details that others overlook to the most critical aspects of engineering and component selection, our NE dehumidifiers truly set the industry standard for performance, reliability and value.

### Moisture Removal:

10 to 100 lbs/hr

### Air Handling:

650 to 8,000 CFM

See details, videos and our NE brochure at:

**SerescoDehumidifiers.com/NEseries**

## NE<sup>2</sup> NE 200 Series Dehumidifiers



Our NE 200 series is pure genius. Designed specifically for retrofit and restricted space installations, they are double-decker units that pack twice the dehumidification in the same footprint as a regular unit. Not only do we pack twice the dehumidification capacity into our already small footprint, but we also created a fully redundant system, with split installation capability and serious energy savings derived from scalable load management.

### Moisture Removal:

45 to 200 lbs/hr

### Air Handling:

3,000 to 16,000 CFM

See details, videos and our NE 200 brochure at:

**SerescoDehumidifiers.com/NE200series**



# For Every Size of Pool in Every Climate



## NP NP Series Dehumidifiers



Our revolutionary NP or Protocol series is the future of dehumidification. The biggest innovation our industry has seen to date, this environment-friendly, energy efficient powerhouse provides superior humidity control and exceptional reliability with as little as 1/6<sup>th</sup> the traditional refrigerant charge. It also completely resolves all the design and operational issues related to traditional refrigerant based units and eliminates on-site refrigeration work.

**Moisture Removal:**  
100 to 840 lbs/hr

**Air Handling:**  
6,800 to 70,000 CFM

See details, videos and our NP brochure at:

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

## NV NV Series Dehumidifiers



Our NV product line is designed specifically for applications where humidity control using outdoor ventilation air is desired. The NV series enjoys all the technology, quality and design innovations of our NP series, but without compressors. Seresco's innovative approach to heat recovery makes our NV series the most energy efficient, compact and lightweight units available for outdoor ventilation humidity control.

**Moisture Removal:**  
Weather dependent

**Air Handling:**  
4,000 to 70,000 CFM

See details, videos and our NV brochure at:

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





**WebSentry®**  
SAFEGUARDING YOUR DEHUMIDIFIER



## WebSentry® for Ultimate Peace of Mind

There's no better way to ensure peak performance, low cost of ownership and years of trouble-free service than with our revolutionary WebSentry® Technology.

WebSentry® is your dehumidifier's umbilical cord back to our factory via the internet. It allows the same engineers and technicians who built your dehumidifier to remotely monitor, control and fine tune its performance long after it leaves our factory. Even more impressive, WebSentry® uses sophisticated computer programs to

record and analyze your dehumidifier performance every 60 seconds, 24 hours a day, to monitor and diagnose any hints of trouble long before they turn into potential problems.

At any sign of trouble, your designated service technicians receive an automated email alert that allows immediate intervention and remote control from any web enabled device, including smart phones. And the best part? WebSentry® Technology is installed, at no additional cost on every dehumidifier we build.

### WebSentry® Technology Advantages

- Installed at no cost on every unit
- Provides the longest parts and labor warranty in the business
- Allows the factory or authorized technicians to remotely monitor and fine tune unit performance via the internet
- Automated computer performance monitoring with trouble alerts sent by email
- Remote access to any unit from internet enabled devices

Learn all the details and see it in action at:

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



## 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)**



# Features



## Superior System Design

	NE 002-003	NE 004-007	NE 008-016	NE 200 Series	NP Series	NV Series
<b>Evaporator Design</b>						
Enhanced tube coils	•	•	•	•	•	•
Split evaporator coils						•
Intermediate drain pans						•
Multiple TX valves						•
<b>Fan Design</b>						
Direct drive plenum fans	•	•	•	•	•	•
Fan vibration isolation base and cone						•
Field selectable supply air locations	•	•	•	•		
<b>Compressor Protection</b>						
Up to 85% less refrigerant charge						•
Pump down & crankcase heaters	•	•	•	•	•	•
Oil monitoring sensors			•	•	•	
Oil separators & suction accumulators			•	•	•	
Voltage monitors	•	•	•	•	•	•
Factory sealed refrigerant charge	◦	◦	◦	◦	•	
<b>Door Design</b>						
Auto grade door gaskets		•	•	•	•	
Compression latches on doors		•	•	•	•	
Hinged doors with door stops						•
Rain guards over doors (outdoor units)	•	•		•	•	
<b>Other Great Features</b>						
Packaged outdoor units		•	•	•	•	
Air heating (hot water, gas, electric)	◦	◦	◦	◦	◦	◦
A/C options (air cooled, fluid cooled)	◦	◦	◦	◦	◦	
Purge/Economizer mode			•	•	•	
Two inch double-walled units - outdoor		•	•	•	•	
Two inch double-walled units - indoor		◦	◦	•	•	
Outdoor air connection	•	•	•	•	•	•
Mirror access configurations		•	•	•	•	•
Small footprint systems	•	•	•	•	•	
Retrofit friendly	•	•	•	•	•	•
Compound sloped drains	•	•	•	•	•	•
Floor grates protect air openings						•
2 inch pleated filters, 4 inch optional	•	•	•	•	•	•
Insulated dampers, silicon side seals		•	•	•	•	•
Modulating gas heaters	◦	◦	◦	◦	◦	◦
Precision outdoor air balancer		•	•	•	•	•
Standard solenoid valves	•	•	•	•	•	
Motorized vertical evaporator bypass damper		•	•	•	•	
Fit through 32 inch door frame	•	•		•		
Motorized outdoor air dampers		◦	◦	◦	◦	◦

• = standard ◦ = optional  
(some model exceptions, see unit specifications)



## Greater Energy Efficiency

	NE 002-003	NE 004-007	NE 008-016	NE 200 Series	NP Series	NV Series
Pool water heating	•	•	•	•	•	•
Variable frequency drives/EC motors	◦	•	◦	•	•	•
Backward inclined plenum blowers	•	•	•	•	•	•
Direct drive motors (no belts)	•	•	•	•	•	•
Heat recovery on exhaust and outdoor air			◦		◦	◦
Sickle blade exhaust fans			•		•	•
Owl wing blade OACC/fluid cooler fans				•	•	
Dual speed OACC/fluid cooler fans				•	•	



## Advanced Control Systems

	NE 002-003	NE 004-007	NE 008-016	NE 200 Series	NP Series	NV Series
WebSentry® Technology	•	•	•	•	•	•
24/7 Internet monitoring & protection	•	•	•	•	•	•
CommandCenter® Controller	•	•	•	•	•	•
Advanced touch screen operator panel	•	•	•	•	•	•
Refrigerant pressure transducers	•	•	•	•	•	
Refrigerant temperature sensors	•	•	•	•	•	
Flow switch on pool water	•	•	•	•	•	
Remote operator panel	◦	◦	◦	◦	◦	◦
BACnet, BACnet IP, LonWorks, Modbus	◦	◦	◦	◦	◦	◦



## Optimal Corrosion Resistance

Service vestibule out of air stream	•	•	•	•	•	•
Fully coated airside coils	•	•	•	•	•	•
Silicone-polyester enclosure paint	•	•	•	•	•	•
Coated copper pipes	•	•	•	•	•	
Corrosion resistant fans	•	•	•	•	•	•
Cambered roof		•	•		•	•
Cupronickel coaxial heat exchanger	•	•	•	•	•	
Rust proof bird screens		•	•		•	•
PVC piping for water circuits	•	•	•	•	•	•



## Easy to Service

WebSentry® premium labor warranty	•	•	•	•	•	•
Superior service access	•	•	•	•	•	•
Mechanical vestibule outside airstream	•	•	•	•	•	
Serviceable RH sensor	•	•	•	•	•	•
Control wires numbered for tracing	•	•	•	•	•	•
Shut off valves to isolate refrigerant	•	•	•	•	•	
Manual stem on solenoid valves		•	•	•	•	
Receiver sight glasses	•	•	•	•	•	
Removable, oversized core filter driers		•	•	•		
Rotolock connections on compressor			•	•	•	
Touch screen help information	•	•	•	•	•	•

# 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

