

ComPak[™] Series

Environmental Control Systems



The ComPak™ Series

The reliable and durable ComPak Series is designed using decades of experience to provide safe and effective environmental control and asset protection for your indoor pool facilities.



With a space efficient design and a variety of models, the ComPak Series is built to fit your indoor pool facility and whatever challenges you face. Offering cost effective and proven temperature and humidity control, the ComPak Series is the choice for hotels, private residences, therapy pools, and similar indoor pool facilities.

THE LEADING ENVIRONMENTAL CONTROL SYSTEM

The indoor swimming pool environment is a very aggressive and challenging climate. The air conditions within the indoor pool space can be damaging to your building structure, supporting equipment, and pool accessories. Swimmer and spectator safety is also important as the indoor pool atmosphere can be harmful to lung and eye tissues. For the best protection of your assets, and the safety of your swimmers, the ComPak Series is the choice for environmental control because it provides:

Proper Ventilation Control

- Maintains proper outside air ventilation in compliance with ASHRAE 62.1 health and safety codes.
- Improves the indoor air quality (IAQ) by removing chemical odors, controlling CO₂, and filtering out air-borne debris.

Pool Air Heating and Cooling

- Effective space heating and cooling to maintain a comfortable environment for your occupants.
- Maintains stable conditions resulting in reduced indoor pool water evaporation rates and improved energy savings.

Dehumidification and Humidity Control

- Industry-leading condensation prevention, protecting your facilities, assets, and swimmers.
- Dew point based control maintains highly accurate and tightly controlled conditions for trusted swimmer comfort and safety.

Environmentally and Energy Efficient Operation

- Proven heat energy recovery which can be recycled into pool space and water heating, saving you operational and energy costs.
- Factory assembled and sealed refrigeration system prevents leaks and reduces the chance of environmental hazards.

- For indoor pools between 200 – 2,000 square feet.
- Capacities from 2 to 12 tons
- Supply air from 550 CFM to 8,000 CFM



Critical components are protected outside of the corrosive air stream



The complete Rooftop Package Option for quick and easy installation



Electro-Guard® protective coil coating backed by a 10 year, best-in-class, unconditional warranty



Improved design offers low profile and space efficient systems



The exclusive ControlAir™, proprietary developed, programmable control system (PCS)



Elite swimmer, spectator, asset, and building protection



Tested system construction resulting in improved reliability and durability in the aggressive indoor pool environment



'Cold-Wall' Sensing Technology™ for unrivaled condensation prevention



Double wall, closed cell, foam filled panels (RoofPak only)



Environmentally sustainable and energy efficient equipment operation processes



Virtual-Tech® secure remote access monitoring system



Proven energy, service, and operational expense savings

CONTROLAIR™ PCS MORE THAN HUMIDITY CONTROL

The ComPak Series features the PoolPak ControlAir programmable control system (PCS), the industry's leading indoor pool control software and system. The ControlAir PCS utilizes hundreds of tangible and measurable data points to provide complete environmental control and protection for your facility, assets, and swimmers that is more than just humidity control.

Proprietarily developed using decades of experience controlling the indoor pool climate, the ControlAir PCS uses 'real-time' software control strategies to offer trusted and accurate control of your indoor pool environment across a wide range of operating conditions.

Dew Point Based Control

The unique dew point based control strategies are only available through the ControlAir PCS. The software and control systems work together to monitor the dew point of your indoor pool space and make slight adjustments to maintain safe and comfortable space conditions. The best-in-class value of the ControlAir dew point based control system is a result of:

- **Safe and Effective Protection**

The ControlAir PCS prevents the room conditions from ever reaching the dew point, and, therefore eliminates damaging condensation formation, protecting your assets, and swimmers.

- **Energy Efficient Operation**

Slight set point adjustments are only made when necessary to maintain stable conditions, improving energy efficiency.

- **Properly Sized Systems**

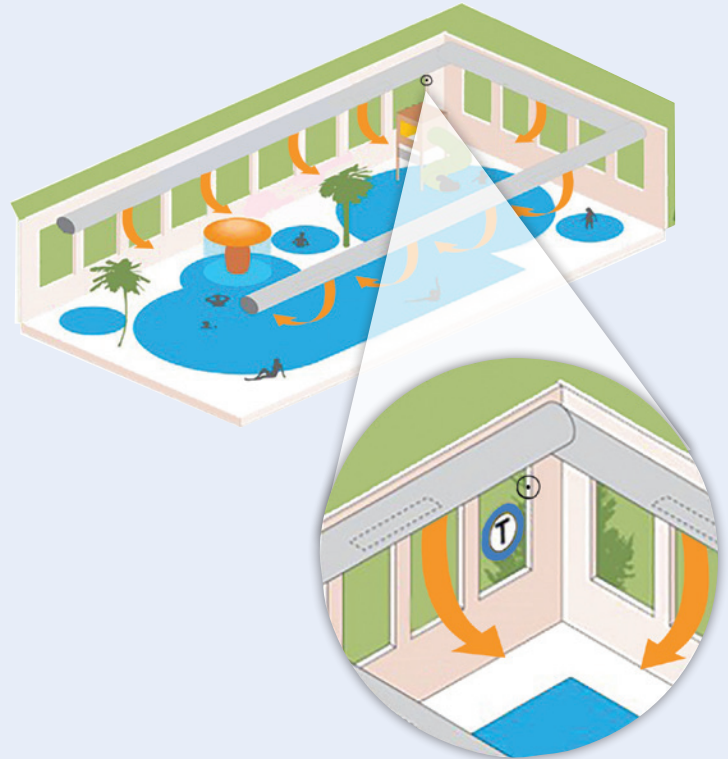
Dew point control allows the ComPak Series to use smaller capacities than comparable products. This saves you the cost of buying oversized systems, and the increased operational, energy, and service cost of those systems.

Energy Recovery

Energy recovery is an important part of the environmental control process. During dehumidification, heat energy is removed from the air at the same time moisture is removed. This heat energy, as well as the heat generated through system operation, is recycled back into either free pool air or water heating by the ControlAir PCS system.

'Cold-Wall' Sensing Technology™

The exclusive PoolPak 'Cold-Wall' Sensing Technology system works to provide you with a tightly controlled indoor pool environment. This system utilizes a remote surface temperature sensor that is placed on the coldest interior surface of the pool room. This surface is where damaging condensation will form first. The sensor relays temperature data back to the ControlAir system, which adjusts the equipment's performance to ensure the dew point remains below the temperature of the 'cold-wall.' This provides your facility with tested and trusted condensation prevention and proven asset protection.



Controls Integration

The ControlAir system has the capability to integrate with several different systems to maximize the value of your environmental control system.

- **Building Management Systems (BMS or BAS)**

BACnet IP and MS/TP, Modbus, and Lonworks integrations.

- **Multi-Unit Networking**

Manage multiple PoolPak systems from a single controller.

- **Virtual-Tech**

Operational results and room set points can be accessed via the secure web-based remote access system.

- **Factory Access**

PoolPak Factory Authorized Service Technicians can use Virtual-Tech to have safe and secure access to perform remote diagnostics and update the software on your system, saving you the cost of service site calls.



DURABLE SYSTEM CONSTRUCTION



1 Protected Critical Components

Critical components within an environmental control system can be damaged by the indoor pool atmosphere. The ComPak Series protects these vital components through system design.

- Components like controls, and compressors are located in isolated compartments.
- The isolated compartments are easy to access for service and are well protected from the corrosive air stream.
- Critical component protection greatly improves system reliability and the system lifespan.

2 Space Efficient and Low Profile System Design

The ComPak Series is designed to fit into compact spaces. The system footprint is reduced to save you installation and renovation costs.

- Space efficient design allows for the system to fit into small spaces in your equipment room.
- Reduced system height maintaining street front appeal of your facilities.
- The packaged roof top option provides a complete system in a space efficient foot print.

3 Electro-Guard® Coated Coils

Due to the constant need for dehumidification, the coils are always covered in corrosive condensate, leading to an increased chance of component failure. With the optional Electro-Guard coil coating, you never need to worry about coil failure.

- The coil coating is electrostatically applied and anti-corrosive.
- Provides a chlorine-resistant barrier for your system which prevents coil failure.
- The Electro-Guard Plus coating is also hydrophilic, improving dehumidification performance.
- Backed by the industry-leading 10 year unconditional warranty

4 Closed Cell Foam Panel Construction (RoofPak only)

The cabinet construction of the ComPak Series is specially designed, and highly effective, for indoor pool facilities.

- Closed cell foam filled panels are mounted to an extruded aluminum frame.
- Rigid wall panels minimize air loss and infiltration, improving system performance.
- Uses superior light-weight insulation materials, strengthening thermal resistance and sound dampening.

5 Direct Drive Fan System (RoofPak only)

Featuring direct drive, the Rooftop Packaged Option uses the latest in technology to provide the best performance, control, and protection for your indoor pool facilities and swimmers. The direct drive fan system is designed to improve system performance, reduce service needs, and save you operational and energy costs.

- Maximized air flows improve indoor pool dehumidification performance.
- Features the latest in energy efficient product design and technology.
- Safe and effective performance saving you operational and service costs.
- Maintains consistent and comfortable indoor pool conditions.
- Reduces the weight and size of the environmental control system.



ROOFTOP PACKAGE OPTION

The Rooftop Package Option provides the ComPak Series with some additional features which make this option the ideal product for rooftop installations. The Rooftop Package Option is only available with ComPak Series horizontal systems, and only in the 3500 and 4000 sizes. The additional features and benefits of this option include:

Direct Drive Fan Systems

Featuring direct drive fans, the Rooftop Package Option utilizes the latest in fan technology to improve energy efficiency, increase environmental performance, and reduce the service needs of the system.

Improved Virtual-Tech Communications

Virtual-Tech communications have been improved in the Rooftop Package Option. In addition to the basic features of Virtual-Tech, the Rooftop Package Option can be accessed for data logging, current condition measure, and have the information in the Virtual-Tech databased used to help diagnosis any service issues before they become large and expensive problems.

Reduced Installation Costs

Installation of the Rooftop Package Option is quick and easy. As a single packaged system, there is only the need for one crane lift. Additionally, with the enclosed ACC, there is only the need for one system, reducing piping and installation costs associated with connection the ComPak Series to another system.

Improved Reliability and Serviceability

As a single packaged system, the refrigeration system is factory assembled and tested before the unit is shipped. This helps to protect the system from leaks and reduces the need for on-site piping which can cause service issues and decrease the reliability of the system.

DESIGN DETAILS

Reliable Environmental Control Systems

With forty-five years of indoor pool environmental control experience, all PoolPak systems are constructed using components, designs, and strategies that are tried-and-true in the indoor pool environment.

Multiple, Flexible Models

The ComPak Series is designed to meet the challenges of any indoor pool environment, equipment room, or roof top. As your indoor pool facilities are unique, and have different needs and conditions than other facilities, having a flexible, customizable solution is a great option. With two model types, two orientations, and the Rooftop Package Option, the ComPak Series can provide a solution that meets the needs of your indoor pool.

High Capacity Dehumidification

As a high capacity dehumidifier (HCD), the ComPak Series can be utilized outside of the indoor pool environment, while still being able to service your indoor pool. The model is available in horizontal or vertical, space saving configurations.

Air and Water Dehumidification

With air and water (AW) capacities, the ComPak Series can provide additional pool water heating and is available in horizontal or vertical, space saving configurations.

Alternative Applications

The ComPak Series is able to operate in any temperature critical, humid environment. Some applications, other than indoor pools, include food processing, museums, libraries, archives, manufacturing, water treatment plants, and more.



BUILD-ON-SITE™ OPTION

The ComPak Series is designed to make the installation process easier, less invasive, and at a lower cost. Many equipment rooms are located in central parts of the building or in a basement. This can make getting a large piece of equipment into those locations extremely difficult. Using the 'Build-on-site' option, some models of the ComPak HCD Series, can be built, modularly, at the installation location by a factory trained assembly crew. This eliminates the need for wall and roof removals, cranes, and facility down-time. The 'Build-on-site' option provides a low cost, highly efficient and simple method of installation.

SERVICE AND SUPPORT

The ComPak Series is designed for easy regular service and support. The entire system is built for reliability and has a projected product lifespan of more than the 10 year industry average.

- The components selected to construct the system are all tested and proven within the aggressive indoor pool atmosphere.
- System construction incorporates trusted components and space efficient design to make service quick and easy.
- Remote access allows for software updates and remote support without the cost of expensive technician site calls.

WARRANTIES

ComPak Series systems are durable and reliable products, and are backed by some of the best warranties in the industry:

- Parts and compressors are backed for 25 months after the date of shipment.
- The Electro-Guard coil coatings provide premium corrosion resistance and come with a warranty that backs the coil component for 120 months, unconditional of pool water chemistry.

PERFORMANCE SUMMARY

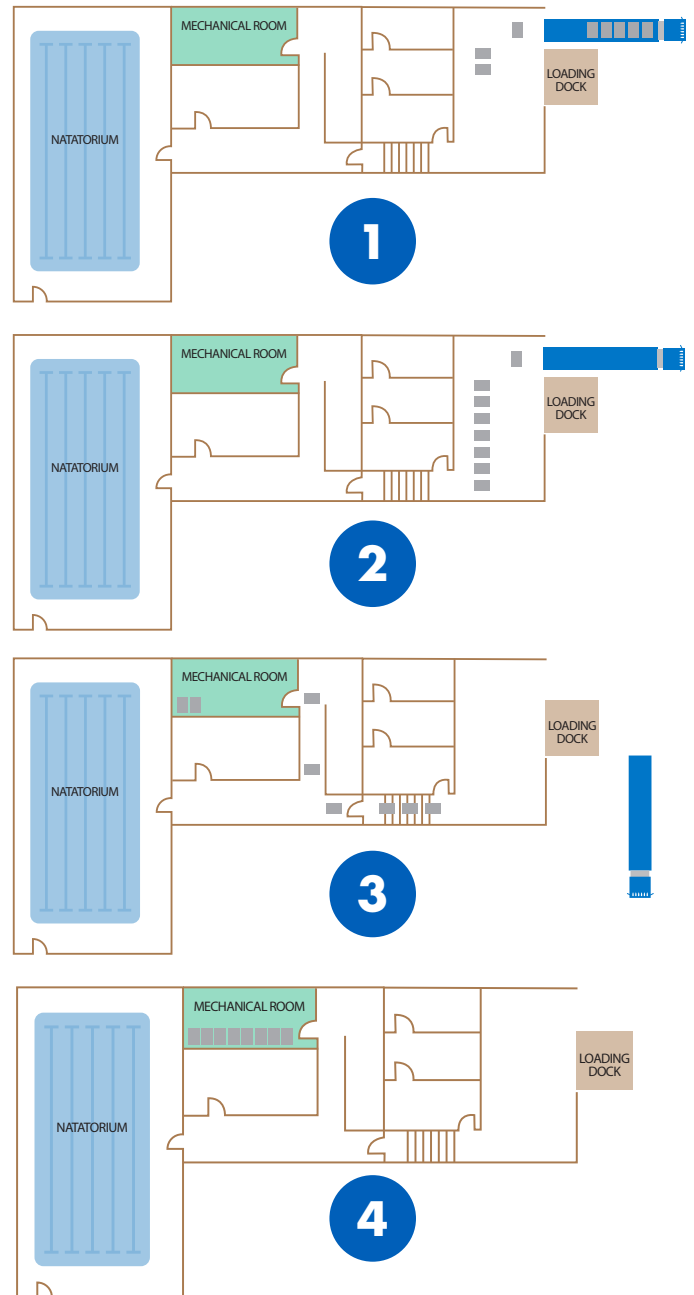
ComPak	TYPE	0550		0800		1200		1400		1800		2600		3500			4000			
		AW	HCD	AW	HCD	AW	HCD	AW	HCD	AW	HCD	AW	HCD	AW	HCD	RP	AW	HCD	RP	
Moisture Removal	Horizontal Orientation	Lb./Hr.	11	11	16	15	20	19	26	24	31	29	46	42	62	57	56	71	69	67
	Vertical Orientation	Lb./Hr.	12	10	16	14	21	19	25	25	30	29	46	41	58	51	-	73	67	-
Outside Air Provisions	Horizontal Orientation	CFM	411		720		635		2000		1900		2500		2800	2000		2800	2000	
	Vertical Orientation	CFM	593		768		743		1913		1855		2500		2800			2800		
Supply Air Provisions	Horizontal Orientation	CFM	1650		2200		2135		4125		4000		6200		8000	7000		8000	7000	
	Vertical Orientation	CFM	1700		2200		2135		4125		4000		6200		8000	-		8000	-	
Evaporator Capacity	Horizontal Orientation	MBTU	27		36		45		65		75		102		149	170		165	200	
	Vertical Orientation	MBTU	27		37		46		65		75		100		148	-		163	-	

Rated Conditions

Pool Room Air: 82°F/60% R.H.

Pool Water: 80°F

Due to continuous development the right to alter specifications without notice is reserved. E&OE



THE POOLPAK PROVEN APPROACHSM

An indoor swimming pool is a very challenging atmosphere for environmental control systems. The chemicals that are used to keep your swimmers safe, can cause a great deal of chemical based corrosion. Swimming pool accessories like railings and diving boards, your indoor swimming pool structure and facilities, and the health of your swimmers and spectators can be damaged or harmed by a poorly controlled indoor pool environment.

With the PoolPak Proven Approach, you never have to worry about a poorly controlled environment. The safety of your swimmers, your building, and your pool accessories can be trusted to PoolPak. The Proven Approach works to provide you with the system and the support to overcome any challenge within your indoor pool environment. The Proven Approach ensures that the system you purchase is proven and tested for the indoor pool environment to provide safe and effective environmental control performance.



THE INDUSTRY'S LEADING SUPPORT NETWORK

Providing you with a complete solution for your indoor pool environmental control challenges goes beyond temperature and humidity control. The best products need more than just high quality design, parts, and construction. They need a trusted service and support network that is quick and easy to work with, while being an authorized and proven partner. For that reason, PoolPak has invested resources into developing the industry's leading support network.

The best-in-class support and service network has been assembled with the knowledge, skills, and availability to help you overcome any challenge. The network spans service and support for your product before, during, and after the sale. PoolPak is committed to your success, with teams of proven, well-trained, and deeply knowledgeable service and support staff available to work with you to achieve the best, safe and effective results for your indoor pool facilities and swimmers.



The best single point-of-contact field system and service consultants



Experienced and dependable product and application installation professionals



Certified and knowledgeable Factory Authorized Service TechniciansTM (F.A.S.T.)



The powerful and secure Virtual Tech[®] & 'Lynx'TM web based remote access systems



Secure and trusted system financing and leasing partners



Proven and skilled indoor pool application & design experts



The exclusive and effective Build-On-SiteTM installation team



Tested and certified technical service education programs



The easy to access and free digital resource & education center



Live and dependable, factory based sales and support team

With more than 45 years of experience in indoor pool dehumidification equipment manufacturing, PoolPak LLC is the most well-known brand in the industry. Our people and products work daily to improve the quality and comfort of indoor pool environments. PoolPak dehumidification solutions include a variety of heating, ventilation, and air conditioning systems, in addition to an industry-leading PoolPak support network. For more information, please visit www.PoolPak.com.

PoolPak[®]
DEHUMIDIFICATION THAT WORKS



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3491 Industrial Drive
York, Pennsylvania 17402 USA
800-959-7725 Fax 717-757-5085