Innovent
Air Handling Equipment

BUILT **TO ORDER.**
BUILT **FOR EFFICIENCY.**
BUILT **TO LAST.**





Listening carefully to your unique air handling needs and crafting innovative, efficient and reliable solutions is our basis for design.

Innovent
Air Handling Equipment

BUILT **TO ORDER.**

Engineering Expertise





Frustrated with off-the-shelf, one-model-fits-all air handling equipment? Then, welcome to Innovent. Our experienced engineering staff and sales representatives know that no two buildings are alike, and we'll work closely with you to design a customized air handling system that will meet your project's unique requirements and exceed your expectations. There's no need to compromise on your vision or redesign mechanical room space when you work with Innovent. Our engineers and sales representatives are experts in product design, high-percentage outdoor air systems, packaged refrigeration, dehumidification, control systems, heat transfer and energy recovery. Since 1981, we've been engineering energy-efficient, customized air handling solutions to meet the critical performance, capacity and air-quality requirements of a wide range of facilities including education, health care, industrial, government, hospitality, recreational, research and retail. Experience the added value we can bring to your next new construction or renovation project. Make Innovent your basis of design for any of these custom air handling solutions:

- Custom Air Handlers **(C-Series)**
- Energy Recovery **(E-Series)**
- Desiccant Dehumidification **(D-Series)**
- Pool Dehumidification **(P-Series)**

BUILT **FOR EFFICIENCY.**

Green Technologies

No matter how complex or challenging your project is, we can incorporate the ideal energy recovery device, provide optimized refrigeration components, and utilize efficient compressors and fans for a highly efficient customized unit. Our products deliver precise temperature and humidity control, assist in LEED accreditation and green building goals, and provide economical indoor air quality for buildings of all sizes and types.

1 Energy Recovery

Incorporate sensible or enthalpic plates, energy wheels, run-around coils or heat pipes from multiple manufacturers to meet your exact needs. Innovent can review first cost, operating cost and operational concerns to help select the most appropriate energy recovery method for your project.



2 Filtration Options

Utilize pleated, cartridge, bag, HEPA, or any type of filter for a simplified system and a single access location.

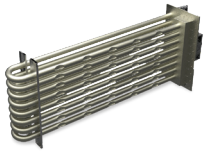
3 Fan Options

Direct drive fans with traditional VFD controllers or EC motors, in single or multiple fan arrangements



4 Heating Options

Indirect or direct fired gas, hot water, steam coils, IFB coils or electric heaters to meet your fuel type needs



5 Cooling Options

Chilled water to integrate with your chiller on site or DX coils for packaged or split refrigeration.



6 Controls Options

Customized DDC controls with BMS interface can be provided on any Innovent unit, which allows for a fully functioning and factory-tested system prior to arrival at the job site.



7 Packaged Refrigeration

For precise load matching, Innovent designs and builds customized refrigeration sections, in air-cooled, water-source heat pump (WSHP) and air-source heat pump (ASHP) arrangements. Whether cooling down to 45 ºF in a process application or to 55 ºF in a comfort cooling application, our custom refrigeration design approach can meet your exact needs using fixed speed, digital or variable speed scrolls.

Innovent
Air Handling Equipment

BUILT **TO LAST.**

Proven Durability

Sufficient service access and robust, standard or enhanced casing construction options help properly maintained units last well over 30 years. An extensive variety of internal components address any space, performance, application or quality concerns you may have.

8 Casing Construction Options

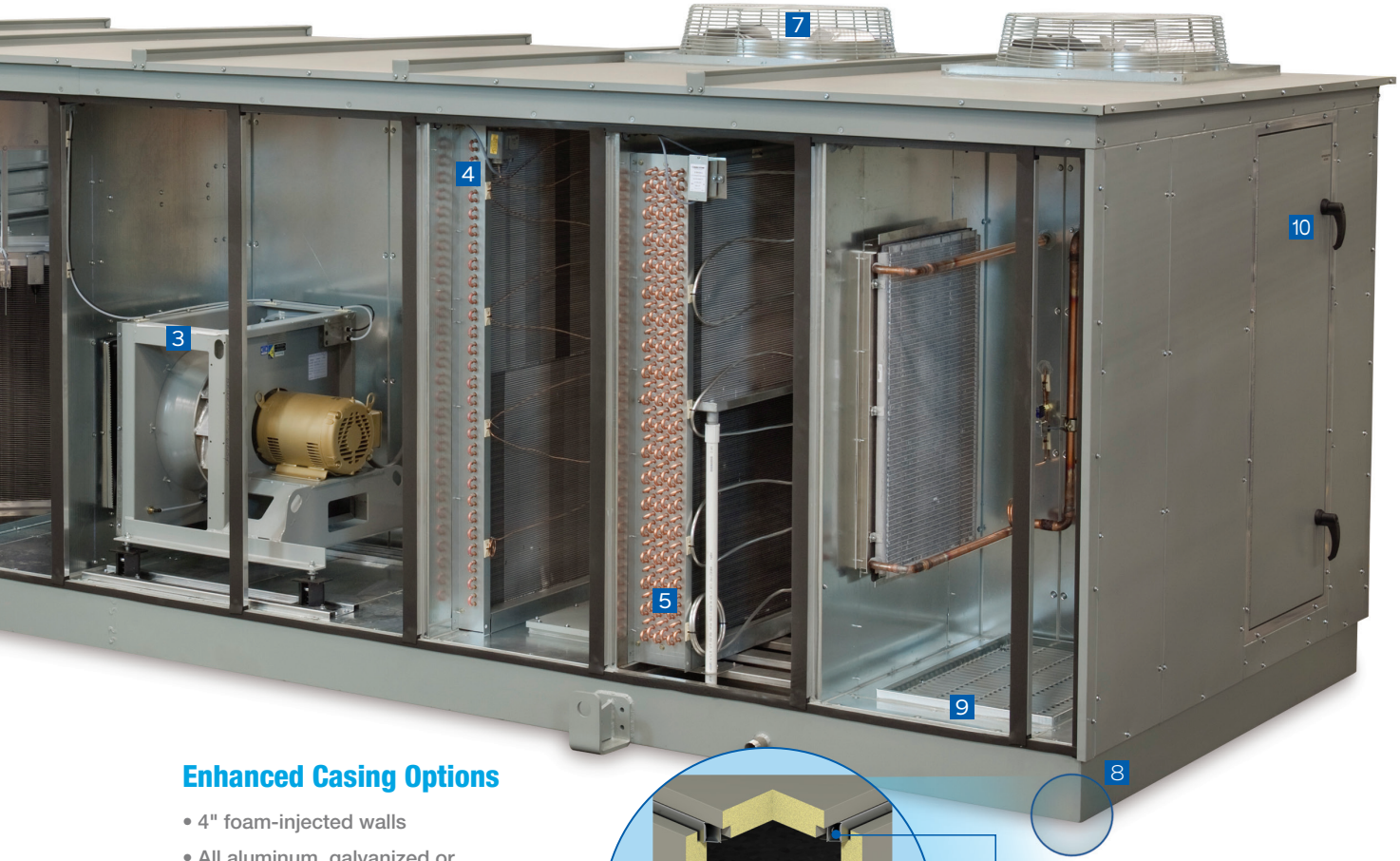
Custom casing aspect ratios allow us to build a unit of any size up to 250,000 cfm. Our engineers can customize the arrangement to meet your stringent design requirements. We can build units in multiple sections or designed for field knock-down for easier installations.

9 Duct Connections

Reduce duct work and pressure drops by defining exact duct connection locations in the bottom, ends, sides or top.

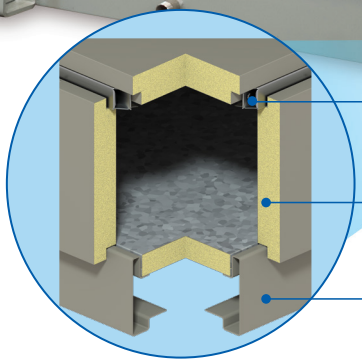
10 Serviceability

Full service access to all internal components requiring routine maintenance



Enhanced Casing Options

- 4" foam-injected walls
- All aluminum, galvanized or stainless steel inner and outer wall construction
- Door accessories (windows, test ports, in-swing, etc.)
- Tread plate flooring
- Premium exterior color options



Flexible Tube Frame
Enables custom casing sizes and configurations

Foam-Injected Double-Wall Panels
R-value of 6.3—7.1 per inch
Multiple material options

Fully-Welded & Coated Steel Base
Heavy-duty construction with integral lifting lugs

Example Casing



FLEXIBILITY
BY DESIGN

C-Series

Custom engineered systems to deliver precision control in critical environments.

Meeting unique challenges with cost-effective solutions has made Innovent an industry leader in the design of fully custom air handling systems for critical environments. Our engineers and sales representatives work closely with you to evaluate your specific heating, cooling and air-quality requirements and then custom design a one-of-a-kind, energy-efficient, dependable system to handle up to 250,000 cfm.

Options include 100-percent outdoor air, gas heating, chilled-water and DX cooling, packaged refrigeration, electric heat, all-aluminum housings or other special casing construction, sectionalized equipment, field knock-down, and direct-match replacement designs, including existing multizone units. Each unit is factory tested to ensure a premium quality unit is supplied and capable of delivering exactly what was specified.

- Custom design allows for unlimited flexibility in equipment layout, sizing, casing splits, and accessibility.
- Premium construction features such as 4" walls, component coatings, multiple casing materials, fan arrays, thermal break construction, and more.





Applications

- Hospitals
- Universities
- Labs
- Pharmaceutical
- Museums
- Wastewater Treatment Plants
- Retail



Innovent
Air Handling Equipment

ENERGY RECOVERY
WITHOUT COMPROMISE

E-Series

Maximize energy transfer between separate air streams with tremendous design flexibility.

Innovent E-Series units recapture energy from air leaving the building and transfer it to fresh incoming air. Tempering incoming air through energy recovery minimizes operating costs by reducing equipment cooling and heating load requirements. These systems provide effective energy recovery in both heating and cooling seasons.

Innovent offers the industry's most diverse portfolio of energy recovery options, including ultra-efficient enthalpy wheels, sensible or enthalpic flat plate heat exchangers, heat pipes and run-around coils. Whether your design driver is lowest first cost, lowest operating cost, or lowest maintenance cost, Innovent has the right energy recovery solution for you.



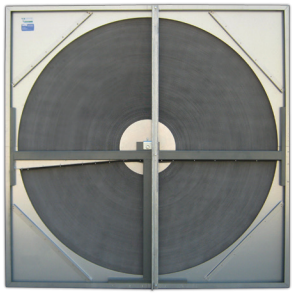


Applications

- Schools
- Casinos
- Labs
- Industrial Processes

- Multiple energy recovery options and flexible cabinet designs are available to ensure optimal energy recovery for your building.
- Units can include single or dual "wrap-around" energy recovery components to reduce the cooling load and provide free reheat, typically used in dedicated outdoor air systems.







PRECISE
LOW HUMIDITY CONTROL

D-Series

Using high temp, low temp, or passive regeneration desiccant technology.

For spaces that need to be maintained at low humidities and tight tolerances beyond the capabilities of typical air handling equipment, count on Innovent's D-Series units. These units deliver extra dry air to maintain spaces below 50% relative humidity, creating healthy and controlled environments for occupants in hospitals, clean rooms and research facilities. D-Series units also maintain controlled environments for preservation purposes such as museums, archive storage and ice rinks.

Our nonpatented approach provides design flexibility, allowing engineers to specify a nonproprietary system. Available options include direct or indirect fired gas, hot water, or steam heating; chilled water or DX cooling; custom packaged refrigeration; and integrated, factory-wired DDC controls, designed and built in-house, with single-point wiring for easy installation.

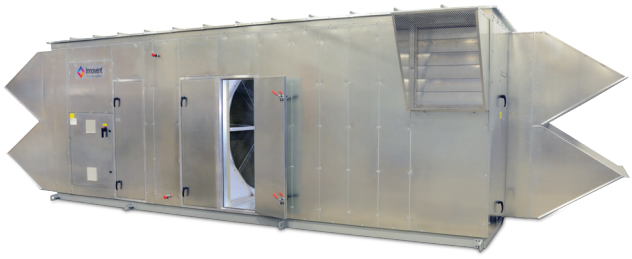
- Spaces can be maintained from 5% to 50% relative humidity using high temp regeneration methods for reactivation of the desiccant wheel.
- Nonproprietary approach lets consulting engineers select the best system based on the specific space needs and keep the project within budget requirements.





Applications

- Ice Rinks
- Archive Storage
- Clinical and Surgical Rooms
- Industrial Processes



Innovent
Air Handling Equipment

HEALTHY
POOL DEHUMIDIFICATION

P-Series

Delivering high levels of outdoor air for healthier, more comfortable pool environments.

Innovent's P-Series products dehumidify indoor pool and waterpark spaces the natural way — using large amounts of outdoor air. Not only does this approach deliver swimmer and spectator comfort, it improves air quality and minimizes corrosion by removing greater amounts of chloramines from the space. The use of outdoor air as the primary form of dehumidification also dramatically reduces the annual hours where mechanical dehumidification is required, lowering the operating costs of the facility.

Natural dehumidification is done efficiently in the P-Series through the use of an all-aluminum, air-to-air, sensible heat exchanger. During most of the operating year, energy is transferred from the exhaust air to the outdoor air to reduce the heating requirements of the space.

All P-Series units are built with aluminum components, aluminum foam-injected panels, and coated heating coils for years of service in corrosive environments.

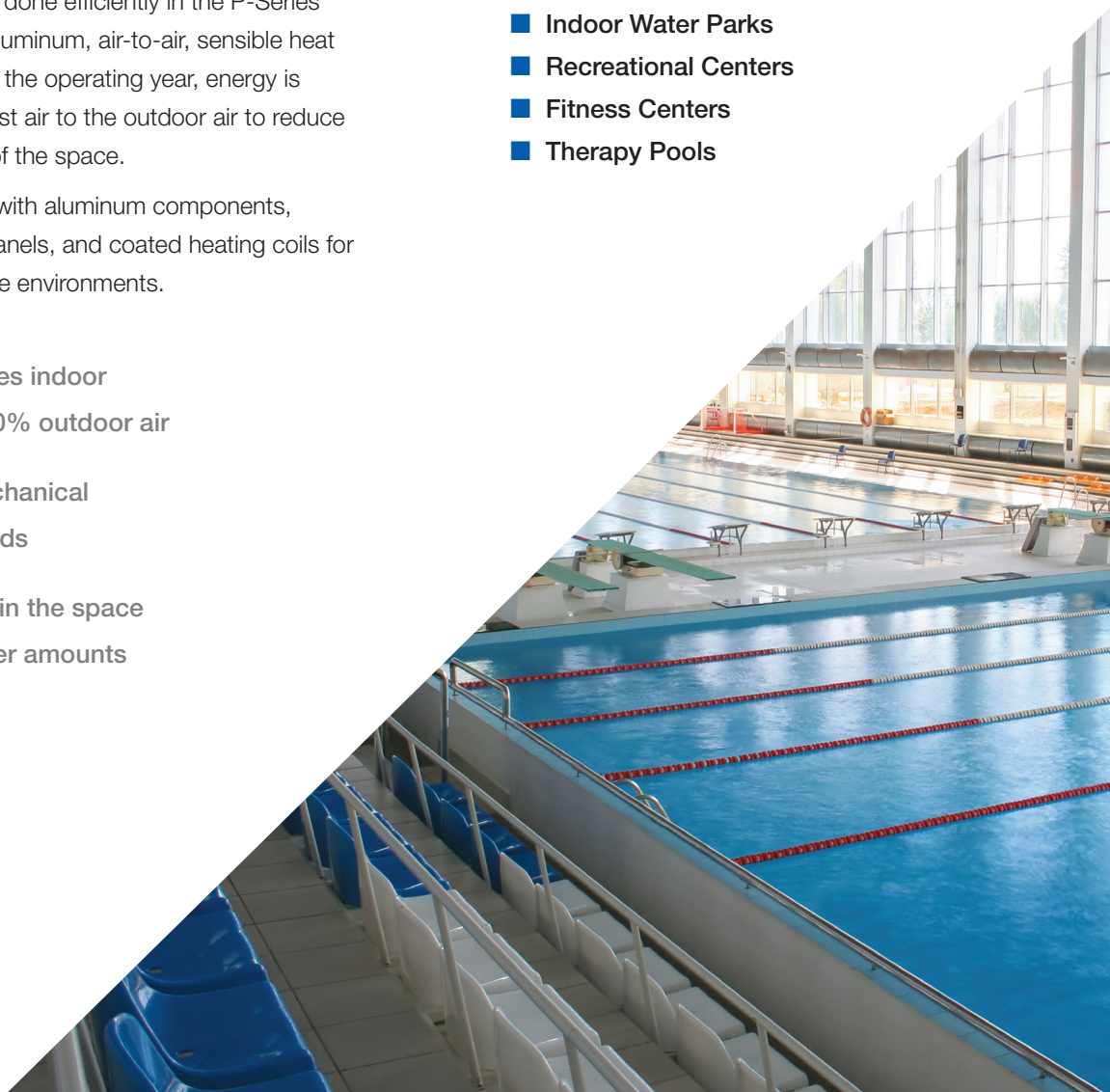
- Naturally dehumidifies indoor spaces with 20%-50% outdoor air
- Greatly reduces mechanical dehumidification loads
- Improves air quality in the space by exhausting greater amounts of chloramines



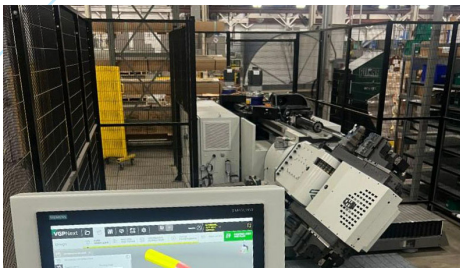


Applications

- Competition Pools
- Indoor Water Parks
- Recreational Centers
- Fitness Centers
- Therapy Pools













EFFICIENT, CUSTOM MANUFACTURING

With advanced manufacturing equipment at our factory in Minneapolis, Innovent is well positioned to build the high quality, top performing air handling units you need — no matter how unique or demanding your performance and size requirements are. Our knowledgeable plant engineers and experienced craftspeople employ advanced manufacturing and assembly processes to create specialized custom units.

CUSTOMER SERVICE **EXCELLENCE**

From the moment your project begins, our knowledgeable Innovent sales representatives in more than 65 locations around the U.S. and our highly-trained, friendly customer service team at the factory will work hard to ensure that you receive the unique, top performing air handling systems you require. We will listen carefully to your needs and special requests — and then use our extensive applications knowledge to create an air handling system just for you.

BUILT **TO ORDER.**
BUILT **FOR EFFICIENCY.**
BUILT **TO LAST.**

Innovent
Air Handling Equipment

CREATING EFFICIENT, RELIABLE **CUSTOM HVAC SOLUTIONS**

Innovent® Air Handling Equipment is a manufacturer of custom HVAC equipment used in a wide range of facilities including schools, hotels, hospitals, pools, manufacturing centers, and commercial buildings. Working with carefully-selected sales representatives, Innovent listens to the needs of designers, installers, and owners to develop custom solutions without the compromises of standard HVAC equipment. Innovent is a business of Greenheck Group.



Headquarters in Minneapolis, MN

For more information, contact your local representative or Innovent directly at:

60 28th Avenue North
Minneapolis, MN 55411
sales@innoventair.com

Phone 612.877.4800
innoventair.com



Innovent®
Air Handling Equipment

BUILT **TO ORDER.**
BUILT **FOR EFFICIENCY.**
BUILT **TO LAST.**

innoventair.com

INV-SLB-002
Sept 2026