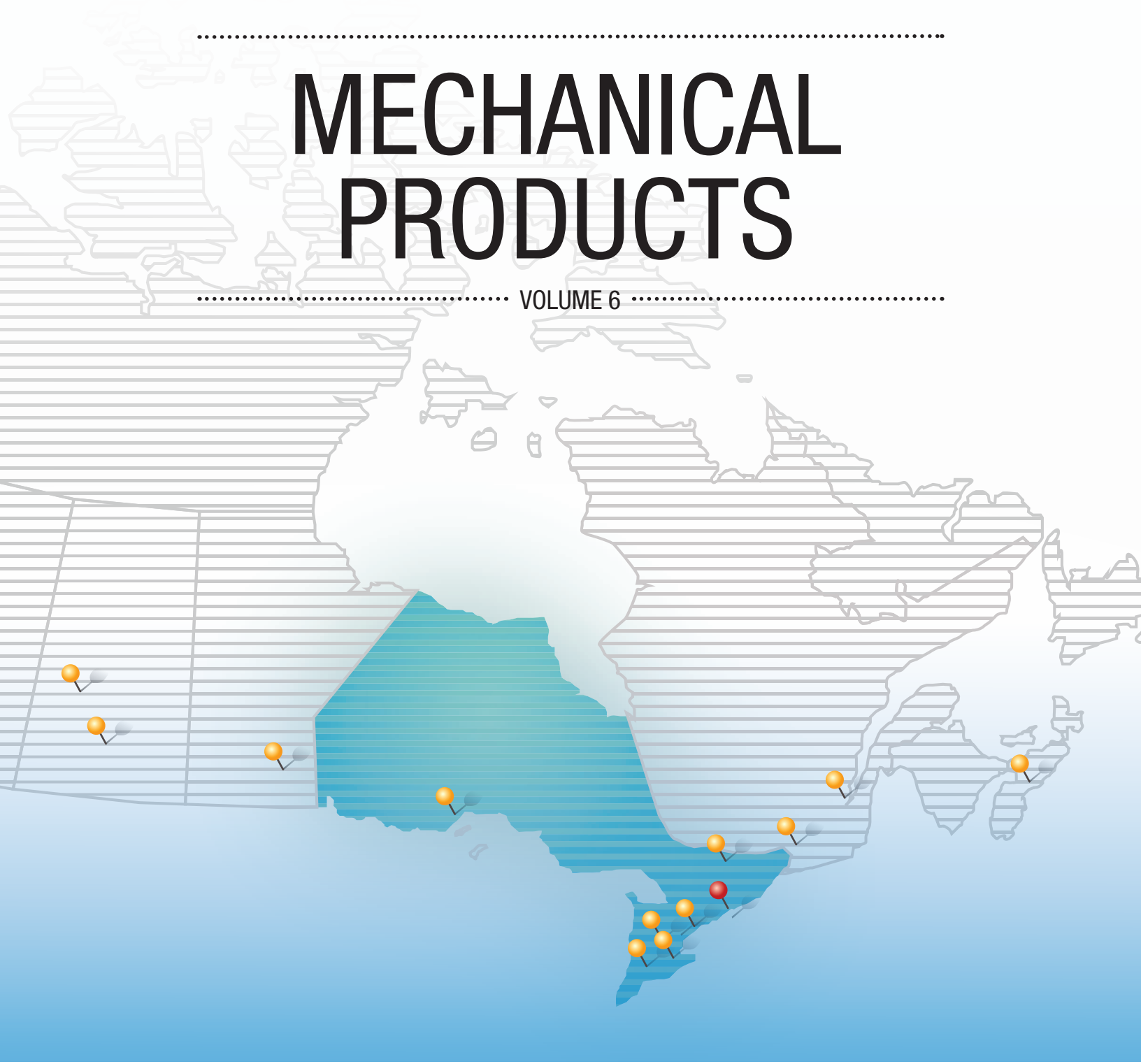




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MECHANICAL PRODUCTS

VOLUME 6



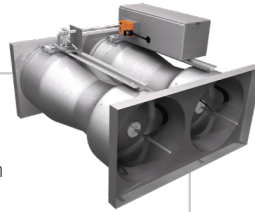
OSHAWA

LABORATORY

PRODUCT APPLICATION

Supply Venturi Valves

- Medium (0.6 to 3.0 in.w.c.) or low (0.3 to 3.0 in.w.c.) pressure operation
- High-speed actuation
- Characterized and calibrated using NVLAP accredited test stations (Lab Code: 201067-0)
- Operating pressure feedback



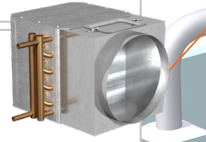
Pace™

- Pressure or volumetric offset control strategies
- Airflow control utilizing Venturi Valves, Venturi FX Valves or Terminal Units
- High speed room level network for communication to Pace and FHC controllers
- BACnet MS/TP



Integrated Reheat Coil

- Factory mounted transition
- Coil access door



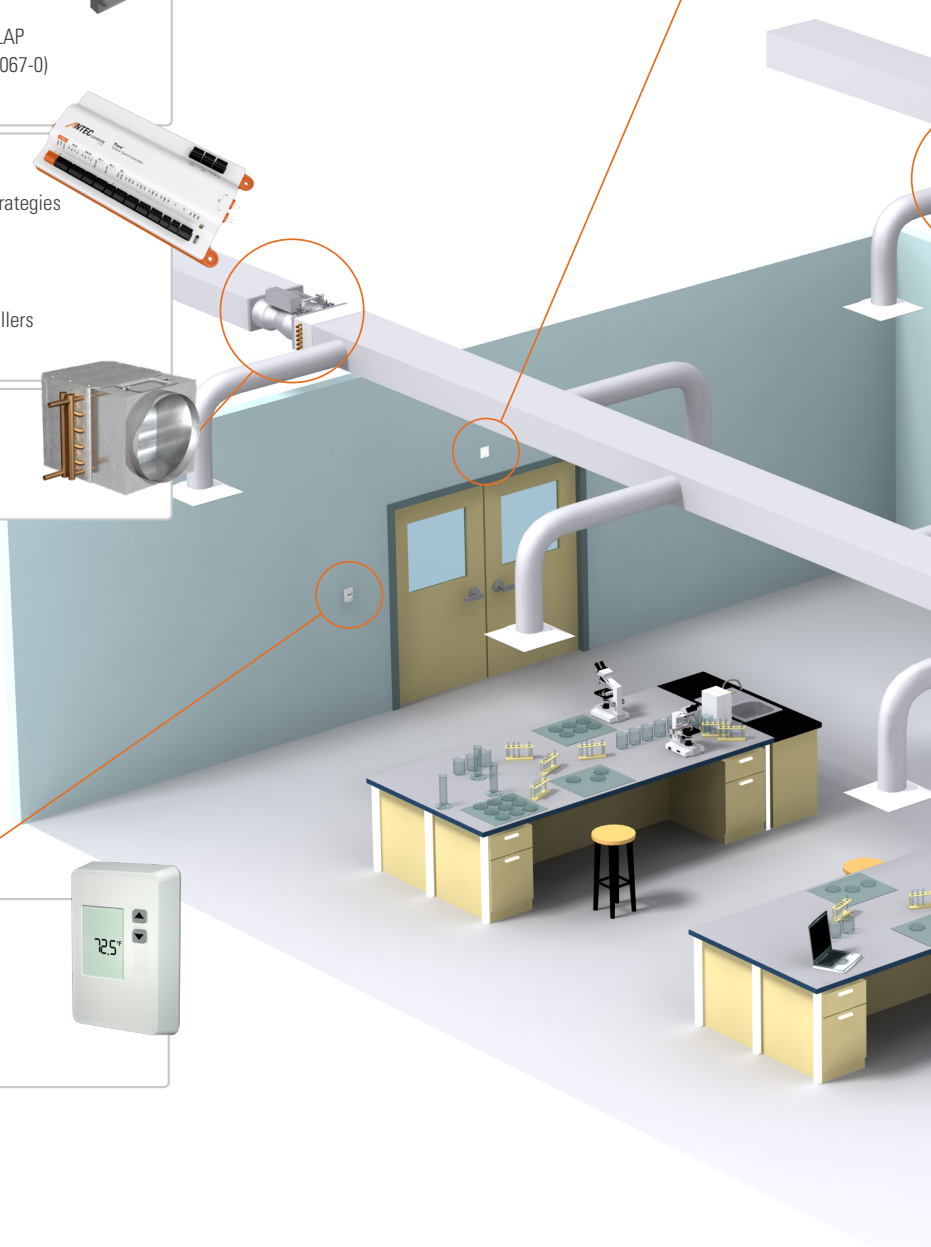
Room Pressure Sensor

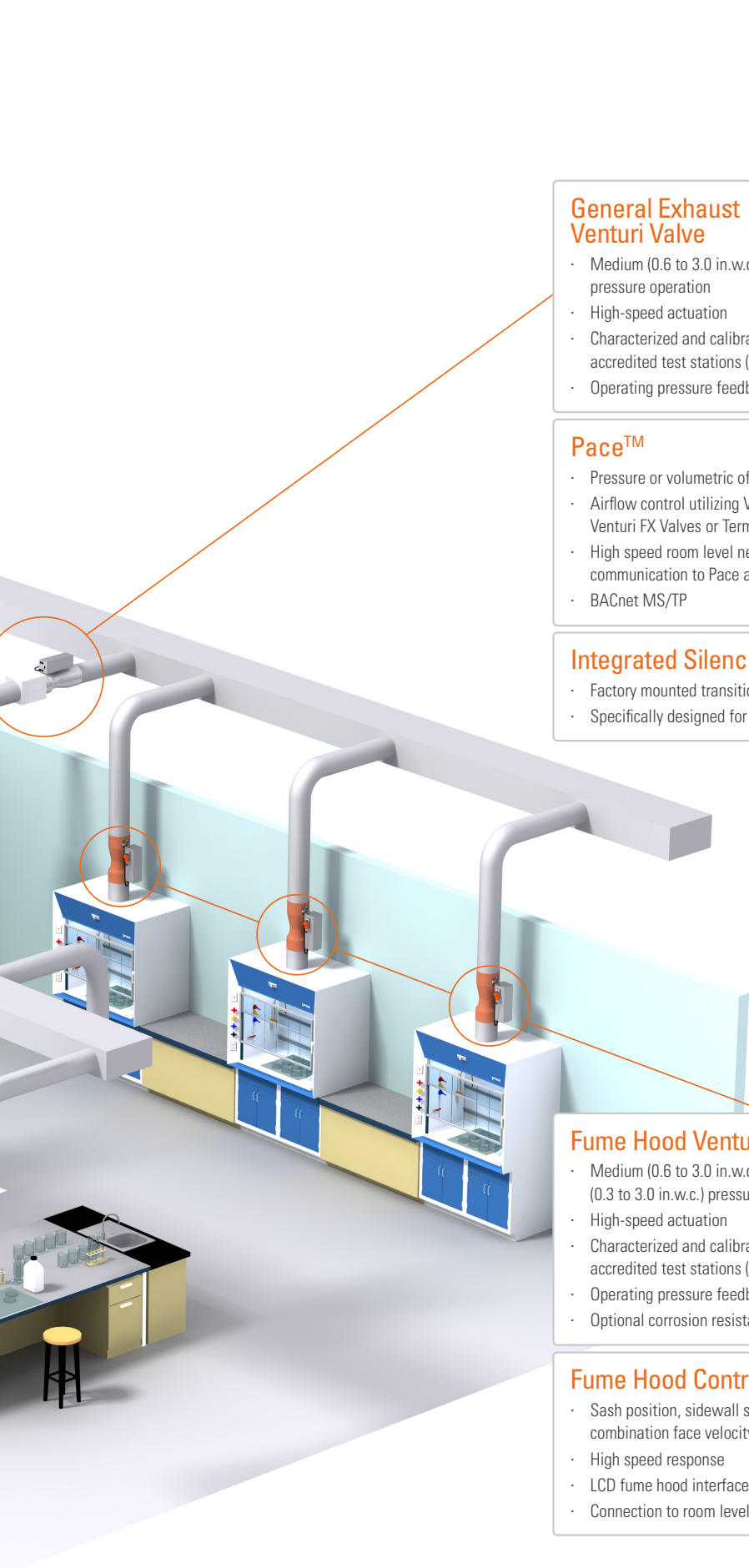
- Maintenance and calibration-free sensor technology
- Accurate to 3% of reading
- Designed to prevent buildup of airborne particulates



Thermostat

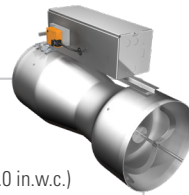
- LCD or blank-face options
- Optional humidity or CO₂ sensing
- Optional connection to room level network for commissioning





General Exhaust Venturi Valve

- Medium (0.6 to 3.0 in.w.c.) or low (0.3 to 3.0 in.w.c.) pressure operation
- High-speed actuation
- Characterized and calibrated using NVLAP accredited test stations (Lab Code: 201067-0)
- Operating pressure feedback



Pace™

- Pressure or volumetric offset control strategies
- Airflow control utilizing Venturi Valves, Venturi FX Valves or Terminal Units
- High speed room level network for communication to Pace and FHC controllers
- BACnet MS/TP



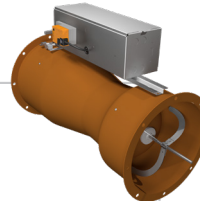
Integrated Silencer

- Factory mounted transition
- Specifically designed for Venturi Valves



Fume Hood Venturi Valve

- Medium (0.6 to 3.0 in.w.c.) or low (0.3 to 3.0 in.w.c.) pressure operation
- High-speed actuation
- Characterized and calibrated using NVLAP accredited test stations (Lab Code: 201067-0)
- Operating pressure feedback
- Optional corrosion resistant coatings



Fume Hood Controller

- Sash position, sidewall sensor or combination face velocity control
- High speed response
- LCD fume hood interface
- Connection to room level network





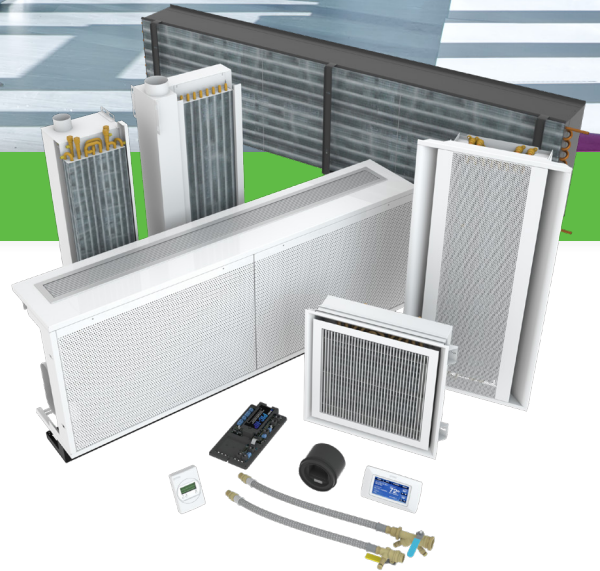
UNITECH
www.unitechair.com

- Units ranging from 2,000 CFM to 300,000 CFM (Catalogued from 5,000 CFM to 91,000 CFM)
- Maximum sound attenuation with four inch, double wall construction
- Penthouse units available up to 400,000 CFM
- Factory-installed controls and piping available
- Cooling Options: Hydronic or DX (Packaged Air-Cooled or Water-Cooled available)
- Heating Options: Hydronic, Steam, Electric or Gas
- Humidification Options: Gas, Electric or Steam-to-steam
- Knockdown construction available
- Custom Air Handlers



Above: Chilled Beams

ACTIVE & PASSIVE BEAMS



BUILDING APPLICATIONS

- + Thermal comfort is a major design consideration
- + Spaces with high sensible heat releases
- + Spaces requiring high indoor air quality (100% fresh air)
- + Spaces requiring energy conservation

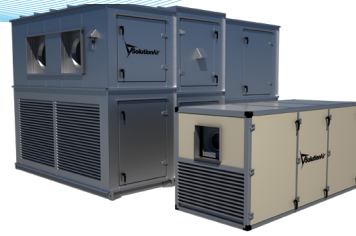
AIR-WATER SYSTEM BENEFITS

- + Reduced system power consumption
- + Reduced maintenance costs
- + Environmental quality
 - Improved indoor air quality
 - Improved thermal comfort
- + Reduced mechanical footprint

ACTIVE & PASSIVE BEAM TYPES

- + Active linear, vertical, horizontal, modular, perimeter induction units, exposed, and floor mounted cabinets
- + Passive linear beams
- + Passive beams with integrated return

Mechanical Products



SolutionAir
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- Air-Cooled DOAS Units
 - Up to 20,000 CFM
 - Heating Options: Gas, Electric, Steam and Hydronic
 - Cooling Options: Hydronic and DX (Packaged or Split)
 - Energy Recovery Options
- Customizable Air Handlers
 - Up to 100,000 CFM
 - Indoor / Outdoor Construction
 - Single / Double Wall Construction
 - Heating Options: Gas, Electric, Steam and Hydronic
 - Cooling Options: Hydronic and DX (Packaged or Split)
 - Energy Recovery
 - Packaged Control
- Make-Up Air Units
 - Direct Fired: 250 – 15,000 MBH
 - Indirect Fired Drum and Tube: 200 – 6,000 MBH
 - Indirect Fired Convoluted Tube: 75 – 1,200 MBH
 - 90% Efficient Indirect Fired: 250 – 1,600 MBH
- Rooftop Units (8 – 250 Tons)
 - Highly Configurable
 - Heating Options: Indirect Gas, Electric, Steam and Hydronic
 - Cooling Options: Hydronic and DX (Packaged Up to 160 Tons and Split Up to 250 Tons)
 - Energy Recovery Options



SolutionAir
www.solutionairgroup.com

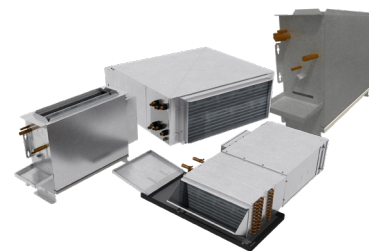
- RegenCore Alternating Mass-Exchanger Energy Recovery Units
 - No Pre-Heat Requirements Down to Outdoor Temperatures of -40°C
 - Up to 92% Effectiveness



price | BEAMS

Price Industries Limited
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- Chilled Beams
 - Linear, Modular, Horizontal, Vertical and Floor-Mounted Active
 - Linear Passive
- Passive with Integrated Returns
- Controls and Hose Kits
- Retrofit Perimeter Induction Units



price | FAN & BLOWER COILS

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 - Optional Integrated Silencer
 - Standard ECM Motor
- Horizontal Blower Coils
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 - Concealed and Exposed

Mechanical Products



Bry-Air
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- MiniPac®
 - Standard Sizes of 100 – 1,800 CFM Process Air
 - Fully Self-Contained Unitary Design
 - Insulated Process and React Airflow Sectors
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 - Electric Reactivation Heat System
 - Integral Volume Dampers
 - ETL Listed System Design
 - Integrated Control System
 - Optional Humidistat Control
 - Optional Pre and Post Cooling Modules
 - Optional Stainless Steel Construction
- VFB™ and EcoDry Series
 - Standard Sizes of 300 – 30,000 CFM Process Air
 - Single or Double Wall Construction
 - Dry Desiccant Rotor with Chain Drive
 - Direct Drive Fans with Premium Motors
 - Chilled Water, Ammonia or Packaged DX Pre or Post Cooling
 - Steam, Electric or Gas Heating and Regen Options
 - Hinged Access Doors
 - Lights and Miscellaneous Power Options
 - VFD Fan Motor Control Optional
 - Reactivation Energy Recovery Options

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- Central Station Air Handlers
- Air Handlers in Any Configuration
- Knock-Down AHU Construction Heating, Cooling and Heat Recovery Capabilities
- Fan Array
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Greenheck
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- Indoor Air Handling Units
- Fan Coils
- Heat Recovery Products
- Packaged Cooling Option
- Coils
 - Chilled Water
 - DX Evaporator
 - Condenser
 - Non-Freeze Steam Distributing
 - Booster / Duct Mounted
 - Hot Water
 - Heat Reclaim
 - Standard Steam
- ERV - Energy Recovery Ventilator
 - 400 to 12,000 cfm
 - 1.5 in. wg external static pressure
 - Louvered intake weatherhood lowers supply air intake velocities to prevent rain and snow from being pulled into the unit
 - 2-inch outdoor and return air filters with a MERV 8 (30% efficiency) rating
 - 18 gauge outer wall construction
 - Multiple energy wheel options allow selection of a unit by what is critical in the design or application:
 - Effectiveness
 - Recovery Efficiency Ratio (RER)
 - Low blower horsepower
- ERH - Energy Recovery Ventilator with Heating
 - 10,000 cfm
 - 1.5 in. wg external static pressure
 - Fresh outdoor air is pre-conditioned by the total enthalpy wheel, recovering a majority of the energy from the exhaust air
 - Saves 3-4 tons of cooling per 1000 cfm
 - Saves 50-60 MBH of heating per 1000 cfm
 - The heating section further tempers cold outdoor air to desired conditions

Mechanical Products



Unisorb®
Canada

Unisorb Canada
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- Specialists in Air and Gas Purification
- Corrosion and Odor Control
- Environmental Emission Control
- Personnel Protection



FRANKLIN
CONTROL SYSTEMS

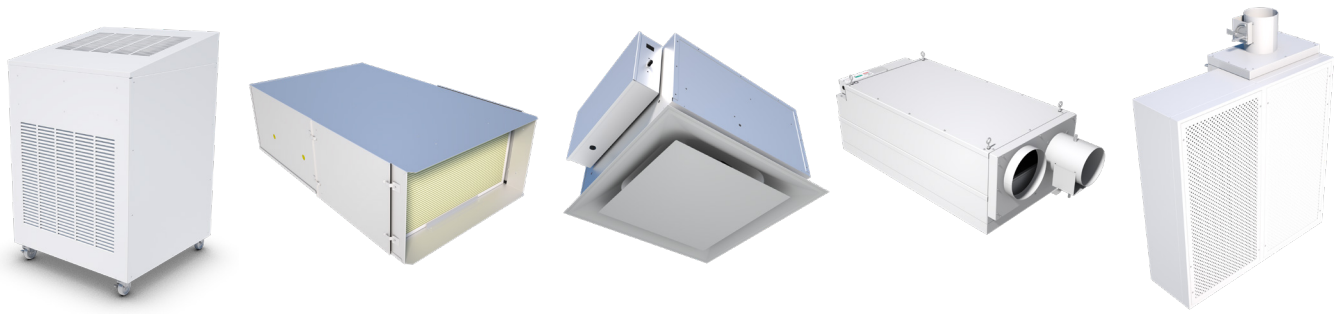
Franklin Control Systems
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NEMA Rated (UL c UL)





RAP: Room Air Purifier

- Rapid purification for high density areas
- UL 2998 and UL 867 certified
- Simple plug and play design
- Optional bipolar ionization and UV light treatment

OAP: Overhead Air Purifier

- Premium installation flexibility
- Quiet air purification solution
- Ceiling mounted design to save valuable floor space
- Optional bipolar ionization and UV light treatment

CAP: Ceiling Air Purifier

- Ceiling concealed with ultra quiet operation
- Motion sensor for maximum efficiency
- Smart Replacement Filter Indicator
- No modifications to existing HVAC system required

PURAFLO: Commercial Fan Filter Unit

- Cleanroom-grade HEPA filtration
- Easy to install with no impact on existing HVAC
- Floor mount for immediate use or ceiling mount for permanent solution
- Dual-outlet reverse flow configuration able to increase air change rate and create negative room pressure

CARES: Critical Area Recirculation/Exhaust Systems

- Part of the Pandemic-Ready Patient Room solution that converts a standard patient room to a negative pressure isolation room at the touch of a button
- Combines a reverse flow Fan Filter Unit (with HEPA) and a one-way, radial diffuser to manage airflow for an entire patient room

Mechanical Products



Armstrong Monitoring
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- CO₂ and Refrigerant Monitoring Systems



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- Premium Quality:
 - Thermally Insulated / Thermally Broken Frame Control Dampers
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COMMERCIAL GAS FIRED

Make-Up Air Units

HVAC Products and Services for the Commercial Sector

Gas fired make-up air units and air handling units are used throughout the warehouse, transportation garage, restaurant, and manufacturing industries.

The rigorous demands of these applications form the backbone of the Commercial Gas Fired Make-Up Air Series of products. Contractors, engineers and building owners are challenged daily with HVAC construction, design and performance – both in new and retrofit applications. Designers must meet stringent requirements regarding energy efficiency, indoor air quality (IAQ) standards, and life cycle cost. To meet these challenges, SolutionAir has developed the PMI-IF, AW-I, and AW-D series of gas fired make-up air units.

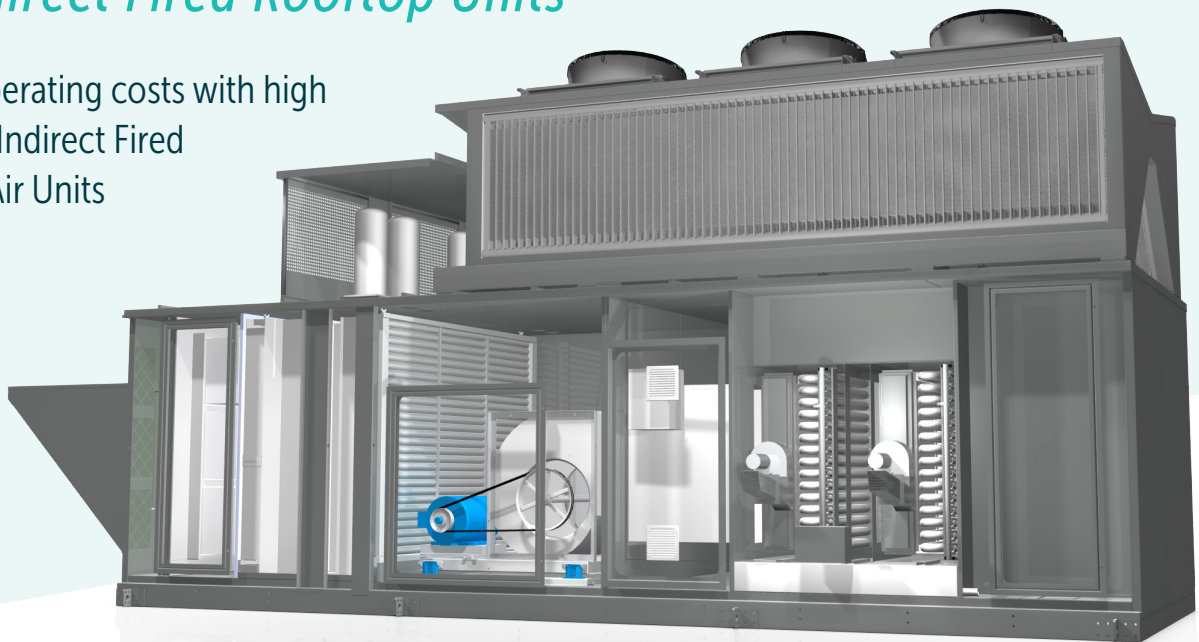


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90% EFFICIENT FURNACE

For Indirect Fired Rooftop Units

Reduce operating costs with high efficiency Indirect Fired Make-Up Air Units



PMI-IF series

The PMI-IF series is an indirect fired unit that utilizes a standard (80% efficient) or an optional high efficiency (90% efficient) stainless steel convoluted tube heat exchanger. By separating combustion air from the supply air, the unit is able to maintain excellent indoor air quality (IAQ). These units can be used in schools, offices, and institutional projects – anywhere that IAQ is paramount. The convoluted tube furnace is one of the most cost effective indirect fired designs.



AW-I series

For demanding indirect fired applications, SolutionAir offers the AW-I series with a three pass stainless steel drum and tube heat exchanger. The robust heat exchanger was designed to be incredibly reliable.

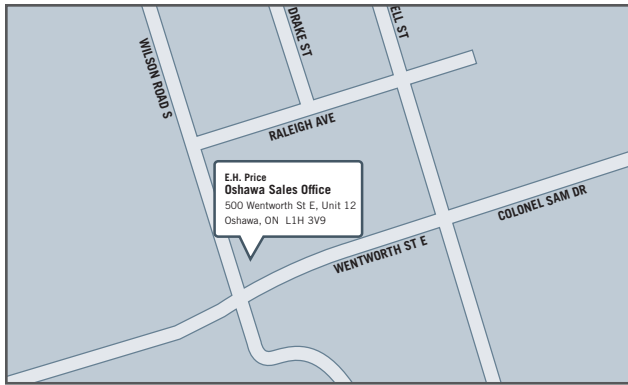


AW-D Series

For applications requiring a large volume of 100% outdoor air, the AW-D series offers a direct-fired alternative. The unit incorporates a high efficiency burner, which is capable of a high turndown ratio, maximizing discharge air temperature control with minimal combustion by-products.



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