CRITICAL ENVIRONMENTS

Fully Integrated Systems for:

- Operating Rooms, Isolation Rooms & Pharmacies
- Research Facilities, Process Labs & Pharmaceutical

www.price-hvac.com/critical
When Safety is Critical, choose Price.

Price is the only manufacturer that has the products and systems for an entire healthcare facility:
- The largest selection of Critical Environment products in the industry
- Extensive Application Engineering support for product selection & application guidance
- Complete systems and solutions with proven performance
- Fully tested, customized products to meet your specialized requirements

Price has decades of experience supplying product and system solutions for healthcare facilities:

- Hospitals, Burn Centers, Isolation Rooms
- Patient Rooms
- Support Facilities
- Laboratories & Pharmacies

Operating Rooms

Life saving surgeries can be performed in optimal conditions with Acuflow O.R. Systems, minimizing the risk of airborne infection and maximizing comfort.

AIR CURTAIN

LAMINAR FLOW

CRITICAL ENVIRONMENTS
Price Displacement Ventilation Systems (PuraflO™) are designed to create positive impact on indoor air quality and comfort in the patient room.

Patient General 6

Critical care patient rooms are carefully controlled environments that protect and comfort both the patients and the staff that care for them during the healing process.

Patient Critical 7

Laboratories and pharmacies are critical, cleanroom environments with sensitive processes that require specialized air distribution strategies.

Labs and Pharmacies 8

Support areas, such as MRI and examination rooms, present a unique challenge for air distribution systems. Price has products designed to suit these complex areas of your healthcare facility.
- MRI
- Examination Rooms

Support Areas 10

Price also specializes in products and application support for all common areas in healthcare facilities.
- Offices
- Hallways
- Waiting Areas
- Lobbies
- Entrances

Common Areas 10

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Laminar Flow System

The Price Laminar Acuflow O.R. System is designed to control air contamination in the operating room by providing low mixing uniform vertical air supply from Laminar Flow Diffusers. Price has the industry’s largest selection of Laminar Diffusers and offers optional integral HE, HEPA or ULPA filtration for superior performance.

Acuflow O.R. Systems

Acuflow O.R. Systems from Price represent an integrated approach that meet the specialized needs of an operating room. Detailed design information on these specialized systems can be found in Volume II: Products for Critical Environments of the Price Catalog.

The Acuflow O.R. Systems approach provides design professionals:
- Selection and layout of Price O.R. air distribution components
- Detailed supporting submittal packages
- Compliance with the latest standards and project design requirements
Laminar Diffusers over the surgical site are surrounded by Price Hospital Operating Room Diffusers (HORD) to provide a clean surgical zone enclosed in a perimeter air curtain. The air curtain maximizes flexibility by increasing ceiling space for mounting medical equipment, and providing additional cooling capacity to meet the heat loads of the modern O.R.

**Price Products for Operating Rooms**

- **LFD / LFD2 / LFDSS / LFDC**
  - Laminar Flow Diffuser
  - Engineered to provide a uniform vertical projection of supply air at controlled low mixing and velocity

- **HORD / HORDSS / HORDM / HORDSSM**
  - Perimeter Slot Diffuser
  - Linear Slot Diffusers with an integral plenum that forms a perimeter clean air curtain around the operating table

- **700H SERIES**
  - Stainless Steel Return Grille
  - Designed for cleanrooms, laboratories and hospital applications

- **UNITEE CR**
  - Modular Cleanroom Ceiling
  - Modular extruded aluminum ceiling grids with integral gasket specifically designed for cleanroom applications

- **UNITEE HDCR**
  - Heavy Duty Welded Cleanroom Ceiling
  - Designed to control the airflow rate of conditioned air into an occupied space

- **SPV / SEV / SDV**
  - Single Duct Variable Volume Terminal Unit
  - An integrated terminal unit and silencer in a carefully engineered, fully tested and certified assembly

- **SPVQ / SEVQ / SDVQ**
  - Quiet Single Duct Terminal Unit
  - Engineered to provide a uniform vertical projection of supply air at controlled low mixing and velocity
Puraflo Displacement Diffusers by Price harness natural convection currents to create a safer, more refreshing environment in standard patient rooms.

- Improved indoor air quality
- Reduced risk of airborne infection
- Part of a sustainable building strategy
- Helps to protect patients and staff
- Increased comfort

Price Patient Room Solutions

Price has partnered with leading healthcare providers and engineering firms in testing and developing Displacement solutions for healthcare facilities.

Patient Rooms

Displacement Ventilation can provide significantly higher levels of indoor air quality in patient rooms. Displacement carries pollutants away from the occupied zone, minimizing the risk of the patient and staff being exposed to contaminants.

The Puraflo Diffuser for patient rooms features a removable face and stainless steel option.
**Price Products for Critical Care Patient Rooms**

**Protective Isolation**
Diffusers located above the bed provide comfort while bathing the patient in clean, breathable air, before cleansing visitors and leaving the room through a high return located at the entrance.

**Airborne Infectious Isolation**
Patients are bathed in a continual stream of clean air, while carefully extracting the air that the patient has come into contact with to reduce the risk of airborne infection.

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**Price Products for Patient Rooms**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PURAFLO DF1W / DF1WSS</strong></td>
<td>1-Way In-Wall Displacement Diffuser</td>
</tr>
<tr>
<td><strong>SPD / SPD-HI / AMD-EX</strong></td>
<td>Overhead Diffuser</td>
</tr>
<tr>
<td><strong>RPL / RPM</strong></td>
<td>Radiant Panels</td>
</tr>
<tr>
<td><strong>SPV / SEV / SDV</strong></td>
<td>Single Duct Variable Volume Terminal Unit</td>
</tr>
<tr>
<td><strong>VV</strong></td>
<td>Venturi Valve</td>
</tr>
</tbody>
</table>

**Design Features**
- Designed to bring the high performance of the DF1 to in-wall applications, the removable face allows for easy maintenance and installation.
- Designed to provide a large volume of air to spaces that need to satisfy both architectural appeal and air distribution performance criteria.
- Designed to provide zone radiant heating and cooling.
- Designed to control the airflow rate of conditioned air into an occupied space in response to a control signal, usually a thermostat.
- Variable volume supply and exhaust valves designed for control of critical spaces.
- Engineered to provide a uniform vertical projection of supply air at controlled low mixing and velocity.
- Designed to provide a fully adjustable air pattern for flexible installations.
- Designed to supply large air volumes in confined critical spaces that require low room air velocity.

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**Protection for Patients**

**Protection for Staff & Visitors**

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<tr>
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<td>Laminar Flow Diffuser</td>
</tr>
<tr>
<td><strong>RAVD</strong></td>
<td>Radial Adjustable Vane Diffuser</td>
</tr>
<tr>
<td><strong>FRFD</strong></td>
<td>Flush Face Radial Flow Diffuser</td>
</tr>
</tbody>
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**Design Features**
- Engineered to provide a uniform vertical projection of supply air at controlled low mixing and velocity.
- Designed to provide a fully adjustable air pattern for flexible installations.
- Designed to supply large air volumes in confined critical spaces that require low room air velocity.
Price Critical Environment products maintain the desired cleanliness level in laboratories without disrupting the sensitive process with unwanted drafts.

**HDCR-Plenum System**

The **HDCR Plenum System** integrates multiple Laminar Diffusers into a single pressurized heavy duty plenum unit, reducing air duct connections and installation labor.

- Complete integrated package
- Reduced inlet connections
- Labor savings

**Price Products for Laboratories**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
<th>Characteristics</th>
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</thead>
<tbody>
<tr>
<td>RFD / FRFD / RAVD</td>
<td>Radial Flow Diffuser</td>
<td>Designed to supply large air volumes in confined spaces with minimal velocity</td>
</tr>
<tr>
<td>UNITEE CR / HDCR</td>
<td>Cleanroom Ceiling Systems</td>
<td>Extruded aluminum ceiling grids specifically designed for cleanroom applications</td>
</tr>
<tr>
<td>SPV / SEV / SDV</td>
<td>Single Duct Variable Volume Terminal Unit</td>
<td>Designed to control the airflow rate of conditioned air into an occupied space in response to a control signal, usually a thermostat</td>
</tr>
<tr>
<td>RPV / REV / RDV / RPVSS</td>
<td>Exhaust Control Valve</td>
<td>Control valves for corrosive and noncorrosive applications</td>
</tr>
</tbody>
</table>
Pharmacies

Hospital pharmacies are governed by increasingly strict regulations. Using Price products helps you to ensure that your finished pharmacy has a high performing air distribution system that meets these requirements. The Price offering includes:

- Air outlets and HEPA filtered laminar supply diffusers for ISO Class 7 Clean Spaces
- Fan filter units with integral fans for areas being renovated or with pressure drop issues
- High efficiency ECM motors to maintain constant airflow across filters
- Unitee CR/HDCR Ceiling Systems for easy ceiling access and future flexibility

**LFD / LFDSS / LFD2 SERIES**
Laminar Flow Diffusers

- Engineered to provide a uniform vertical projection of supply air at controlled low mixing and velocity
- Designed for cleanrooms, laboratories and hospital applications

**UNITEE CR / HDCR**
Cleanroom Ceiling Systems

- Extruded aluminum ceiling grids specifically designed for cleanroom applications
- Designed to provide unidirectional vertical airflow of filtered, clean air over a cleanroom space

**FFU / FFUSS / FFUD**
Fan Filter Unit

**700H SERIES**
Stainless Steel Return Grille
Price is the only manufacturer of air distribution products for healthcare that specializes in solutions for the entire healthcare facility, helping to ensure high performance and improved indoor air quality throughout the building.

- **MRI**
  MRI Rooms can pose a challenge for ventilation systems. Price offers a full line of non ferrous products suitable for use in MRI rooms.

- **Hallways**
  High induction outlets such as the Price Square Plaque Diffuser (SPD) or directional louvered air outlets (SMD) are ideal for corridors and hallways. The air supplied to the space maximizes comfort while keeping sound levels low.

- **Waiting Areas, Lobbies & Atria**
  The conventional method of ventilating waiting rooms is with an overhead system, which is well proven and effective. A displacement system may reduce the exposure of airborne contaminants to occupants waiting to see their healthcare provider. Lighter than air contaminants are displaced upwards out of the occupied zone and exhausted from the room.

- **Offices**
  Conventional overhead supply systems are always a good choice for offices; however, Displacement Ventilation is another option that features high indoor air quality, high levels of comfort and low noise levels.

- **Examination Rooms**
  Price SCD Square Cone Diffusers are common in examination rooms and provide a comfortable, draft free, quiet environment. Displacement outlets are also viable, displacing heat and contaminants up and away from the doctors and patients to high level returns. Displacement Ventilation reduces the chance of infectious particles being passed from one room occupant to the next.

- **Other Products & Solutions**
  Price has the ventilation solution for all areas of your hospital. Price can provide a complete package with our full line of Terminal Units and Controls to compliment Price air outlets. If you have a special room, Price has the products and resources to help you.
Price Unitee CR / HDCR Ceiling Systems are designed to provide access to the ceiling space as well as support the installation of diffusers, infill panels and lighting fixtures. The gasketed construction prevents air leakage between the ceiling plenum and occupied space below.

**Unitee CR Ceiling System**

*Unitee CR Ceiling Systems* are supplied as separate components for field assembly, allowing full access to plenum mounted equipment after installation.

- A sterile white powder coat finish selected for its durability and chemical resistance
- High quality extruded aluminum members
- Large factory welded modules for field assembly
- Vinyl gaskets seal between the Unitee CR and clip-in panels
- Universal assembly clips allow quick, tool free removal of sections for access to equipment in the space above

**Unitee HDCR Ceiling System**

*Unitee HDCR Ceiling Systems* are supplied in large, factory welded modules and provide a strong ceiling support structure for easy field installation.

- A sterile white powder coat finish selected for its durability and chemical resistance
- Continuous gasket to reduce risk of leaks
The founding principles of our company have never changed - business integrity, first class service and a commitment to people. Price manufacturing endeavors arose from our belief that we could supply superior products and services at a reasonable price. Our mission is to become the worldwide supplier of preference for air distribution products and services. You can rely on Price – our products and services – with confidence.

Product Improvement is a continuing endeavor at Price. Therefore, specifications are subject to change without notice. Consult your Price Sales Representative for current specifications or more detailed information.