



Displacement Ventilation
Architectural Portfolio



The Science of Comfort™

Displacement Ventilation

Architectural Portfolio

Price Displacement Ventilation is the air distribution method of choice in the architectural community due to the custom design ability of the Price team. We take pride in our ability to produce customized diffusers for a variety of applications, including airports, casinos, and educational and religious facilities.

We can integrate diffusers seamlessly into building architecture, such as benches, stair risers, and planters.

The following pages are intended to illustrate the custom design and architectural integration capabilities of Price displacement products, while also serving as inspiration for future projects.

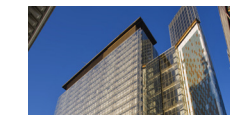
The design capabilities of Price's displacement team are limited only by your imagination. We invite your custom design challenge.



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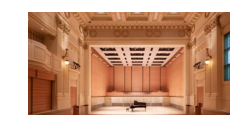
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Project: **Mineta San Jose International Airport**



Location: **San Jose, CA**

Architect: **Gensler**

Associate Architect: **Steinberg Architects**

Engineer: **WSP Flack + Kurtz**

The concourse of the airport features custom diffusers integrated into the wall and 360° flow diffusers. These diffusers were designed by Price according to Gensler's architectural specifications.



Pictured left to right:

View of custom DF1W and DR360 looking down terminal concourse **01**

DF1W diffusers integrated into sidewall ensure occupant comfort while offering a pleasing architectural element to the space **02**

DR360 diffusers accent the terminal while offering energy efficient air distribution **03**



Project: Edgewater Casino

Location: Vancouver, BC

Architect: Patrick Cotter Architects

Engineer: VEL Engineering

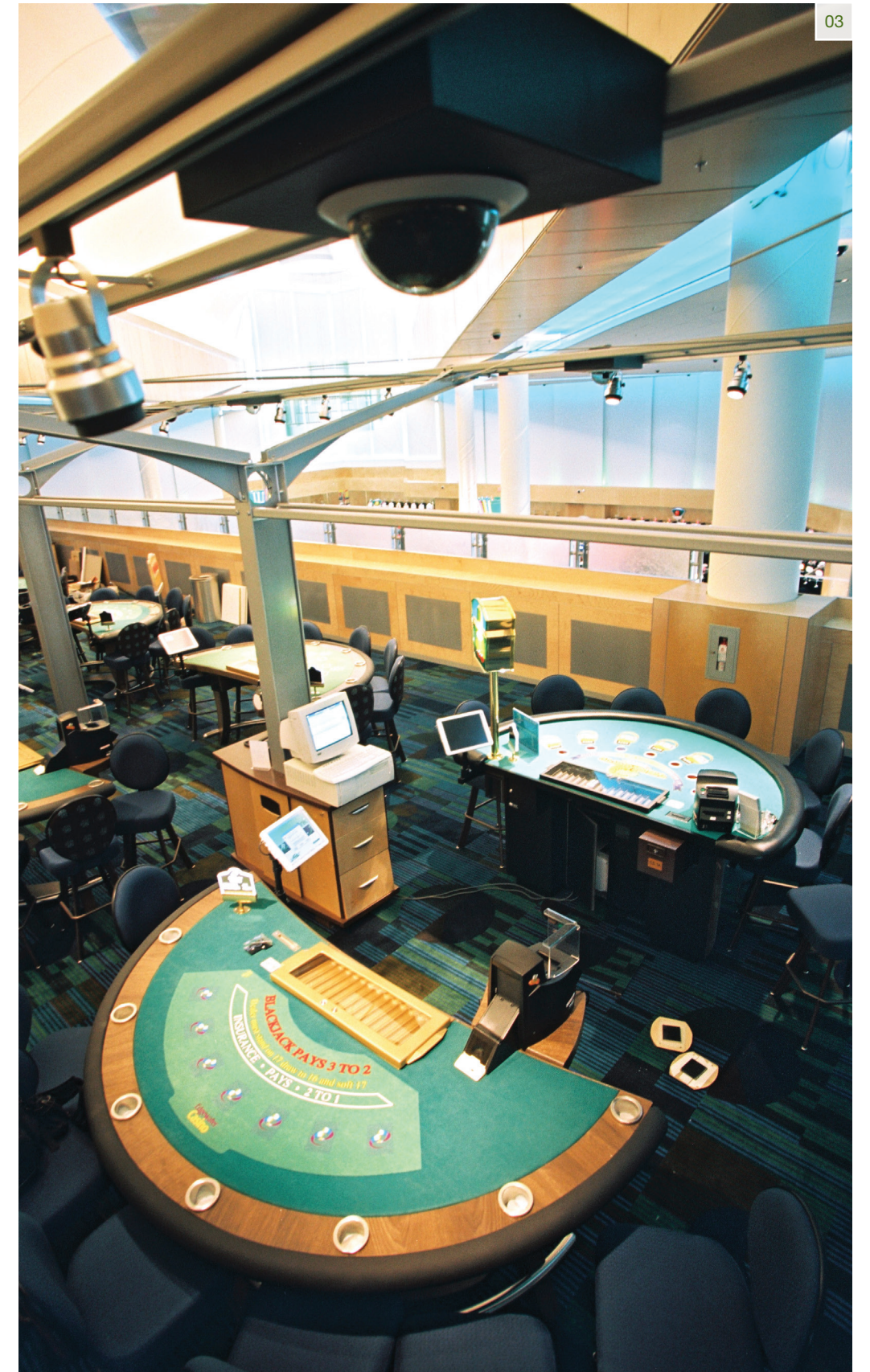
This casino, featuring a glass structure with vaulted ceilings, used both underfloor displacement diffusers on the lower floor and large (36"x72") diffusers recessed into wooden cabinets, which served as supply plenums, on the upper floor. This effectively integrated oversized diffusers into the interior design, creating a smooth, seamless aesthetic and providing exceptional thermal comfort, indoor air quality, and energy efficiency.



01



02



03

Pictured left to right:

ARFHD underfloor displacement diffusers 01
provide flexibility to the gaming floor

DF1R diffusers recessed into a counter in an 02
eating area

DF1R diffusers integrated into wooden cabinets 03
provide ventilation air to the gaming tables

Project: Manitoba Hydro Place

Location: Winnipeg, MB

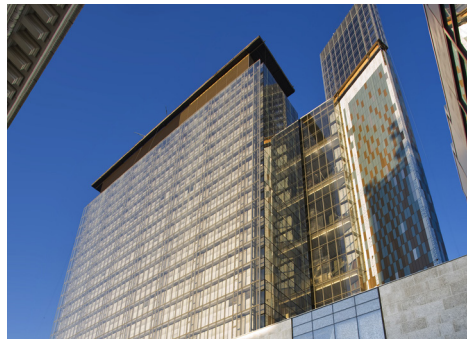
Design Architect: KPMB

Architect of Record: Smith Carter

Energy/Climate Engineers: Transsolar Energietechnik

Mechanical Engineer: AECOM

An internationally renowned addition to the Winnipeg skyline, the headquarters of energy utility company Manitoba Hydro has Price displacement diffusers recessed into the walls of the lobby to provide superior air quality and a pleasing aesthetic for employees and visitors. The architect had a distinct design vision for the lobby, and Price offered a solution that enhanced this vision.

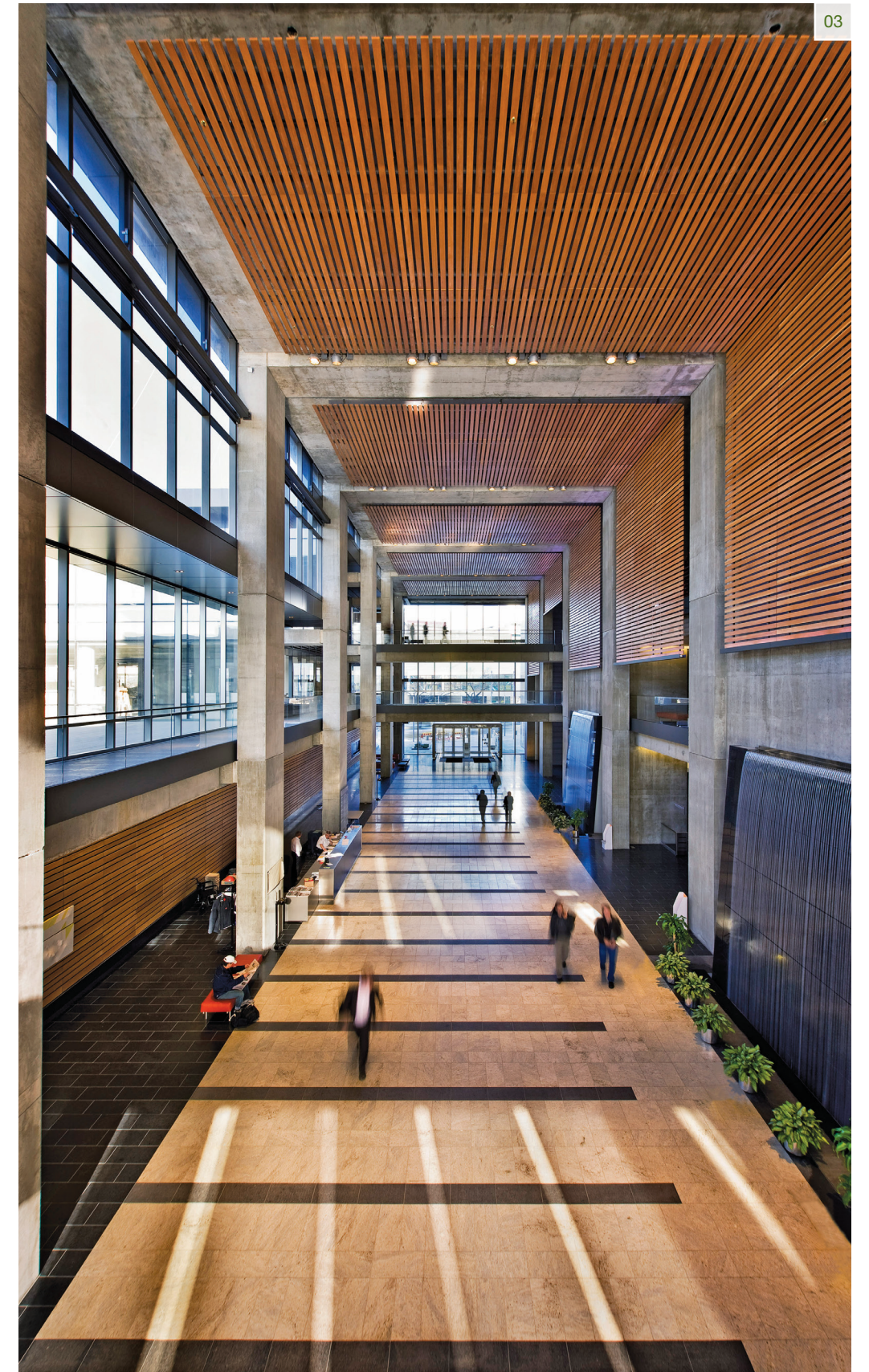
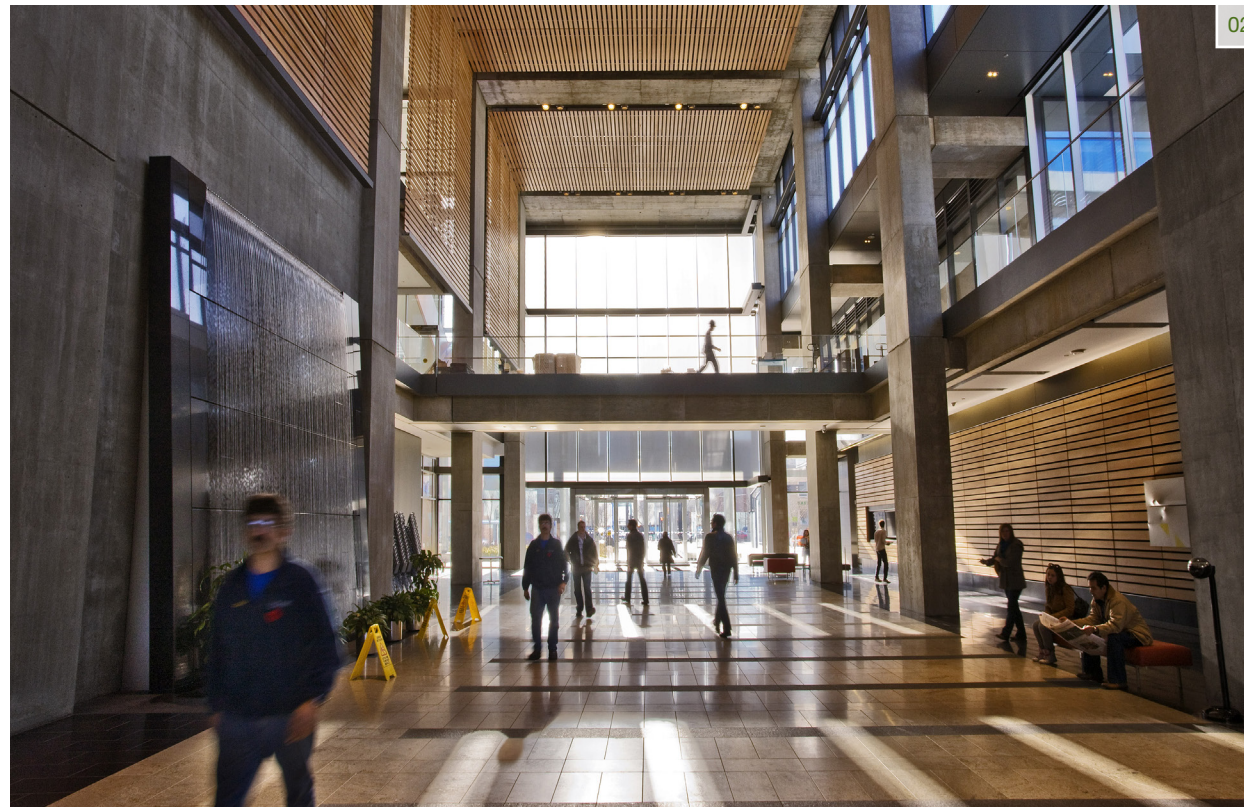


Pictured left to right:

The high ceilings of the building's lobby mean that displacement achieves energy savings by conditioning only the occupied zone 01

The diffusers use 100% outdoor air to provide ventilation air to complement the lobby's radiant slab conditioning system 02

Diffusers are incorporated along the length of the lobby's wall and finished with a subtle, black powder coat. 03



Project: **California ISO**



Location: **Folsom, CA**

Architect: **Dreyfuss & Blackford Architects**

Engineer: **Frank M. Booth, Inc**

This 278,000 sq ft headquarters was designed as three separate functional spaces, with a central lobby linking the three wings. Underfloor air distribution combined with strategic use of wall mounted displacement ventilation contributed to the LEED Platinum rating, allowing CallSO to demonstrate leadership by example. The complex is designed to operate 40% more efficiently than California's restrictive Title 24 standards.



Pictured left to right:

- UFAD Diffusers can be individually controlled 01
- UFAD Diffusers can be easily reconfigured to suit room layout changes 02
- Displacement DF1R in the boardroom walls 03

Project: **San Francisco Intl Airport T2**



Location: **San Francisco, CA**

Lead Architect: **Gensler**

Associate Architects: **MWA Architects, Hamilton Aitken Architects**

Mechanical Engineer: **SJ Engineers**

A custom displacement ventilation system designed in conjunction with the architect, reduced energy consumption by 20% compared to a traditional overhead mixing system while integrating seamlessly into the design vision of the terminal while.



Pictured left to right:

A narrow perforated pattern helps the diffusers complement the interior design of the terminal **01**

Floor to ceiling diffusers keep occupants comfortable in the recompose area **02**

Displacement is used throughout the terminal as seen here in the ticketing area **03**



Project: Elk River Library



Location: Elk River, MN

Architect: KKE Architects (now merged with DLR Group)

Engineer: Clark Engineering

This certified LEED Gold public library integrates large 180° flow diffusers into the book stacks to provide energy efficient air distribution in a subtle, architecturally pleasing fashion. The diffusers were custom designed and custom finished to the architect's specifications.



Pictured left to right:

Custom-finished DR90 diffusers between library stacks 01

DR90 mounted into a corner of the library 02

Displacement diffusers provide a quiet, comfortable environment for study 03

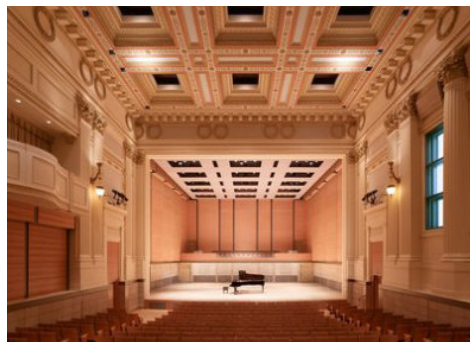
Project: San Francisco Conservatory of Music

Location: San Francisco, CA

Architect: Perkins + Will

Engineer: WSP Flack + Kurtz

The low noise levels and high indoor air quality of displacement ventilation made it a natural choice for this renowned educational facility in the center of San Francisco. Custom diffusers were installed recessed into all performance spaces in the building, including the 450-seat concert hall, to deliver cool, fresh ventilation air to both performers and audience members.



Pictured left to right:

01 Low velocity supply air delivers draft-free ventilation in the recital hall

02 Diffusers are subtly integrated into the base of the walls to deliver ventilation air in the salon performance area

03 Displacement diffusers are recessed into the wall surrounding the stage in the main concert hall, ensuring mechanical noise does not affect the performance



Project: Beth Am Shalom

Location: Lakewood, NJ

Architect: Spiegle Architectural Group

Engineer: KSI Consulting Engineers

Numerous floor-to-ceiling windows limited the ability to run ductwork to the ceiling, making bottom-ducted displacement diffusers a natural choice in this New Jersey synagogue. The architect installed custom grilles over the diffusers, enhancing their design vision without compromising performance.



Pictured left to right:

The use of low wall diffusers overcame the challenge of limited space to route ductwork to the ceiling 01

The high ceilings of the sanctuary made displacement ventilation an excellent way to save energy 02

Factory finished in black, the custom DF1W diffusers are almost indiscernible behind the custom grilles 03

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