



# ACBH

## Horizontal Active Beam

The Price ACBH is a low profile, active chilled beam with horizontal discharge. It is an ideal product for spaces with low ceiling height, curtain wall construction, or bulkheads. Ideal applications include hotel rooms, dormitories, hospital patient rooms, and office spaces.

The ACBH is a unique configuration of active chilled beams where the airflow is discharged in one direction, perpendicular to the water coil. The induced airflow can either be drawn from the room side or from the plenum space. The primary air and induced air are mixed together in the beam and discharged horizontally into the space to provide conditioned and comfortable air.

## Typical Applications

The ACBH is ideally suited to installation in a bulkhead, which makes it a great alternative to fan coils. The ACBH has no moving parts such as fans or motors, thus greatly reducing maintenance costs. For curtain wall building construction, the ACBH solves the challenge of integrating HVAC equipment into the space in an architecturally appealing manner. The ACBH, installed in a bulkhead, can function as the transition between the curtain wall and acoustic ceiling T-bar system. The conditioned airflow is discharged directly against the façade, creating a thermally comfortable space. The ACBH is available with a wide range of architectural discharge and return grilles, in continuous and discrete layouts for seamless integration into the space. All grille options are tested in conjunction with the active beam to provide reliable and accurate performance data.

### KEY FEATURES

- **Wide variety of architectural discharge and return grilles including: linear bar grilles, double deflection grilles, and louvered and perforated face grilles.**
- **Concealed or exposed installation options. Custom cabinets are available.**
- **Available in 2 pipe and 4 pipe coil configurations for cooling and/or heating.**
- **Field reversible coil orientations (left and right).**



*Slotted Face*



*Grille Face*



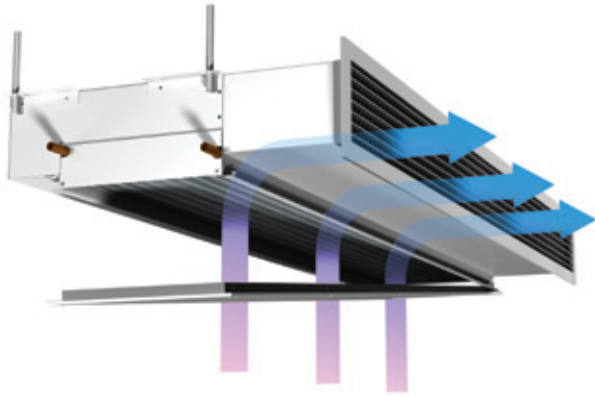
*Return Grille Inlet*



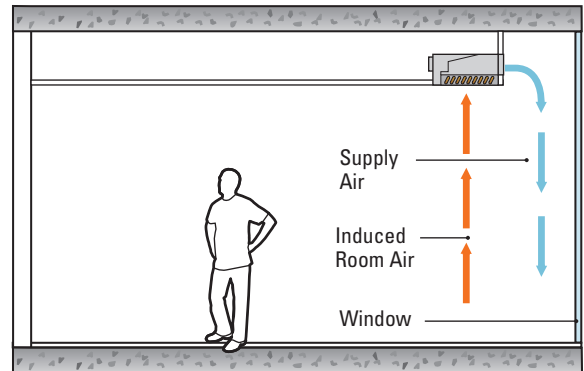
*ACBH installed in bulkhead over doorway*

## Product Information

Much like Price's other active beam offerings, the ACBH allows for decoupling of the ventilation and cooling loads, allowing for the optimization of both to create a thermally comfortable space in an energy efficient manner. The primary airflow of the beam is minimized to meet the ventilation and latent load requirements; while the coil type and length of unit are selected to achieve the required sensible cooling and/or heating. Through minimizing the airflow, the air-side energy of the fan can be reduced by as much as 80% compared to a conventional all-air system. The reduction in airflow also allows for a reduction in ductwork size, resulting in immediate construction cost savings, as well as potential for smaller riser sizes, lower ceiling heights, and reduced floor to floor heights; potentially adding valuable square footage and reducing expensive façade construction costs.



*ACBH air flow pattern*



*Room air flow pattern of a perimeter installation*



*Bulkhead installation*



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