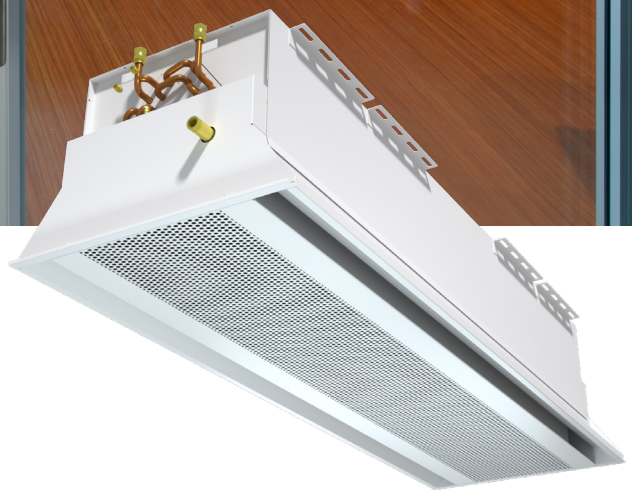
LIU

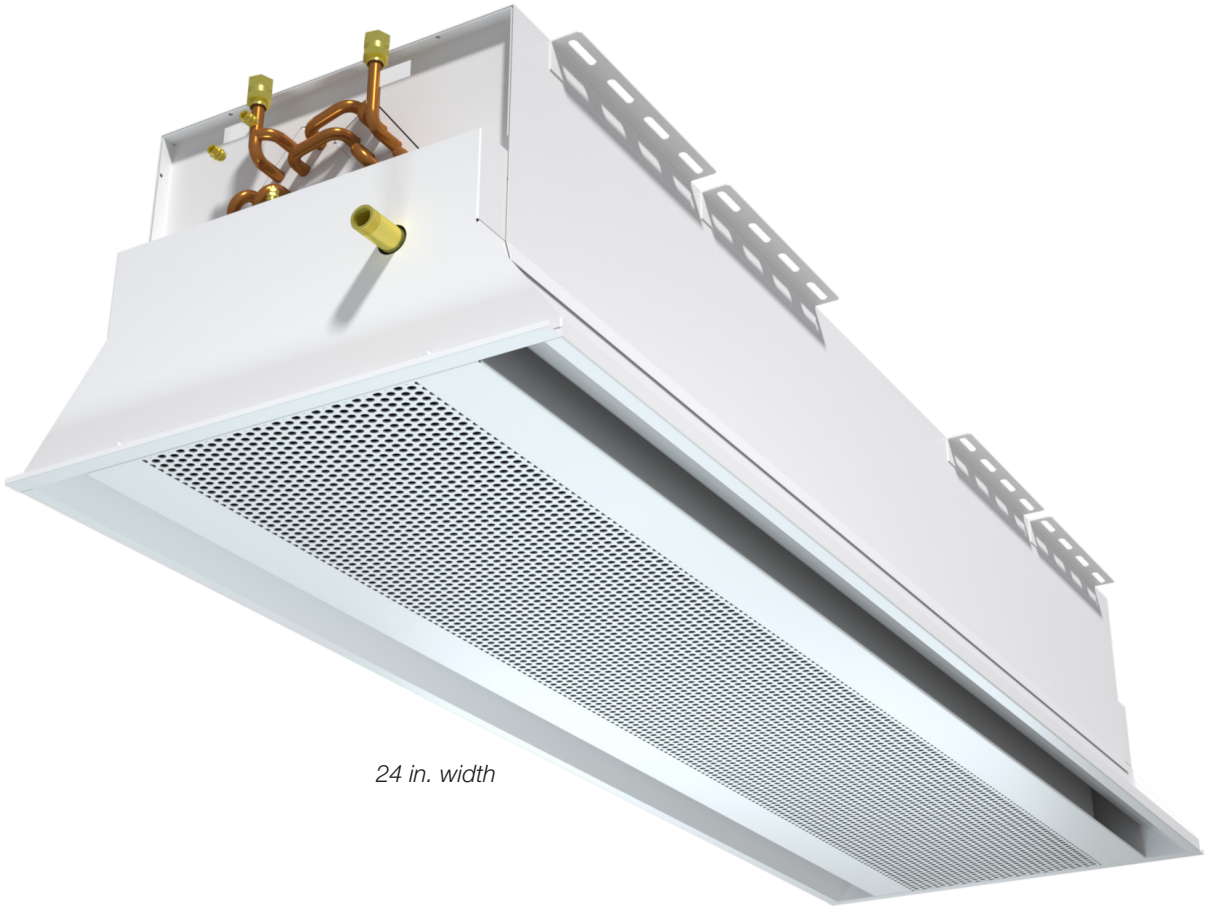
LINEAR INDUCTION UNIT



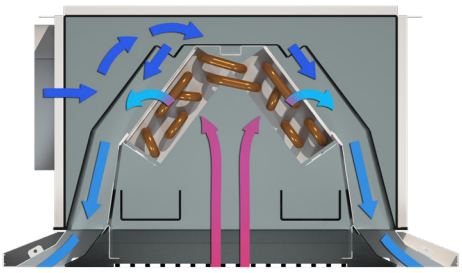
price | BEAMS

LIU
Linear Induction Unit

The Linear Induction Unit (LIU) is Price Industries' solution to high latent applications. This induction unit can be utilized in room centers with its 2 way throw pattern to provide optimum thermal comfort. The LIU is designed to provide cooling and heating output by conditioning the room air induced through the beams hydronic coil while simultaneously supplying fresh, conditioned air to the occupied area. The incorporation of a condensate drain pan allows for higher latent and colder water applications.



24 in. width



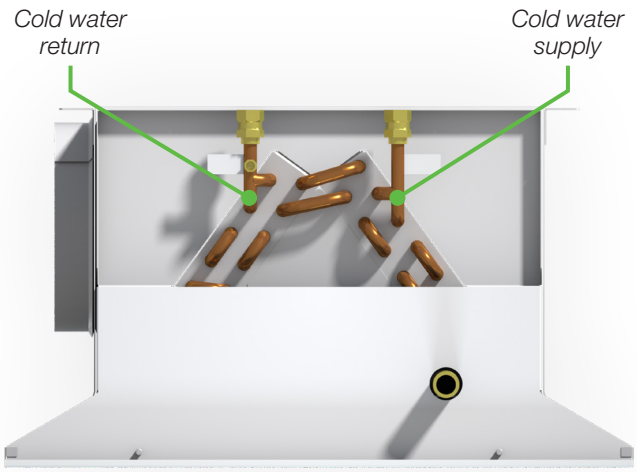
2-Way airflow

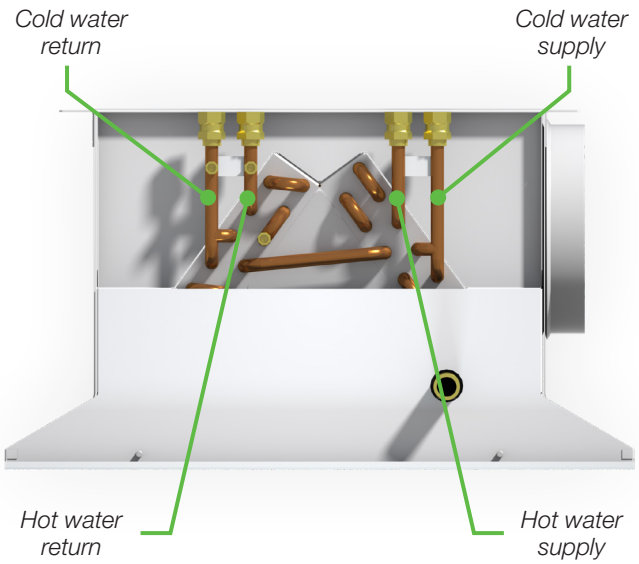
WATER COIL OPTIONS

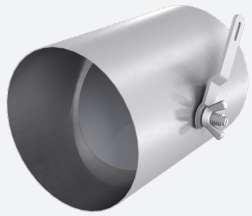
The ACBL is available with two water coil configurations.

2-Pipe Configuration – Can be used in heating or cooling applications.

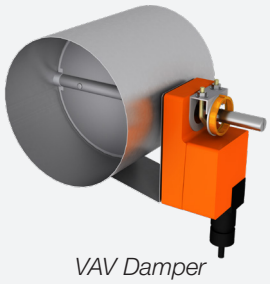
4-Pipe Configuration – Includes dedicated circuits for heating and cooling.



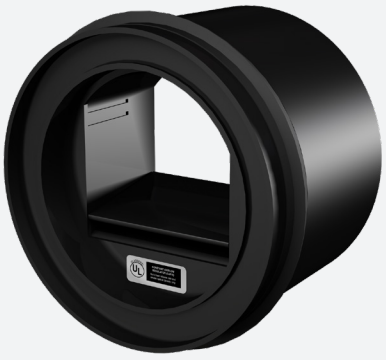




Manual Quadrant Damper



VAV Damper



Volume Flow Regulator

DAMPER OPTIONS

Three damper options allow for fine tuning of static pressure.

Volume Flow Regulator (VFR) – System powered pressure independent airflow regulator.

Manual Quadrant (MQ) Damper – For onsite fine tuning.

VAV Damper – Can be electronically actuated for VAV applications.

APPLICATIONS

Office Buildings

+ Typically installed in open office areas, private offices, conference rooms, hallways, and storage rooms.
+ Can be utilized in both interior and perimeter zones.
+ The slimline configuration allows for a row of beams to be installed adjacently without interruption in open office areas.

Healthcare

+ Typically installed in patient rooms and administrative areas.
+ Small footprint of the beams and ductwork can lead to additional usable space.

Laboratories

+ Beams are typically applied in load driven labs.
+ The air diffuser (ADS) option can be utilized in lab spaces to provide demand control ventilation as well as makeup air during occupied hours.
+ The pattern controller (PC) option can be used to spread the air in small footprint layouts.

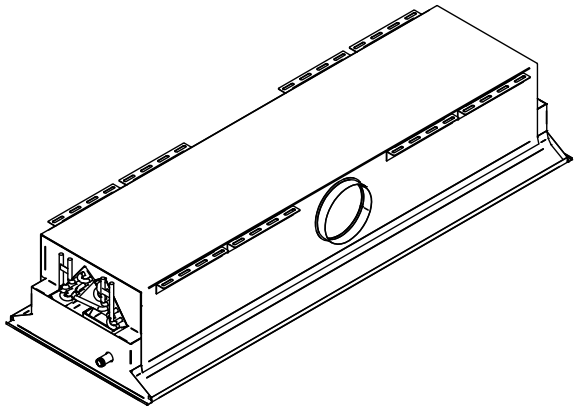
K12 Schools

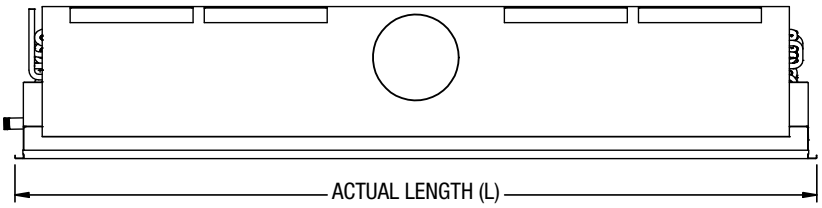
+ Multiple space uses available including libraries, classrooms, offices, and labs.

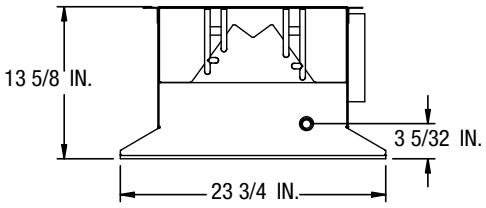
Post Secondary

+ Multiple space uses available including libraries, classrooms, offices, lecture hall, and labs.
+ Excellent waterside efficiency opportunity by utilizing the district loop from the central plant to supply the water to the beams.

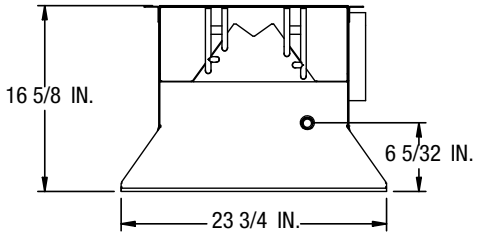
DIMENSIONAL DATA







STANDARD HEIGHT



3IN EXTENSION HEIGHT

Nominal Width	Actual Width (W)
24	23.75
Nominal Length	**Actual Length (L)**
24	23.75
36	35.75
48	47.75
60	59.75
72	71.75
84	83.75
96	95.75

PERFORMANCE DATA

Performance Range

Performance	24 in. ACBL 2-Way Discharge	24 in. ACBL 1-Way Discharge	12 in. ACBL 2-Way Discharge	12 in. ACBL 1-Way Discharge
Total Sensible Cooling (Btu/h per Active Lineal Foot)	300 to 1,600	400 to 1,300	200 to 1,100	200 to 650
Total Sensible Heating (Btu/h per Active Lineal Foot)	500 to 2,000	550 to 1,750	350 to 950	350 to 800
Sound Level	NC < 15 to 35	NC < 15 to 35	NC < 15 to 35	NC < 15 to 35

Design Parameters

Design Parameters	Cooling	Heating
SAT	45 – 65°F	60 – 90°F
Airflow Rate	3 – 25 cfm/ft. (2-Way Discharge) 3 – 15 cfm/ft. (1-Way Discharge)	
EWT	42 – 65°F	90 – 140°F
Water ΔT	2 – 20°F	10 – 20°F
Water Flow Rate	**min**: 0.5 gpm **max**: 3 gpm (Optimal ≥ 1 gpm)	
Water ΔP	0 – 10 ft.	
Air ΔP	0.2 – 0.8 in. (Target 0.4 – 0.6 in.)	

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