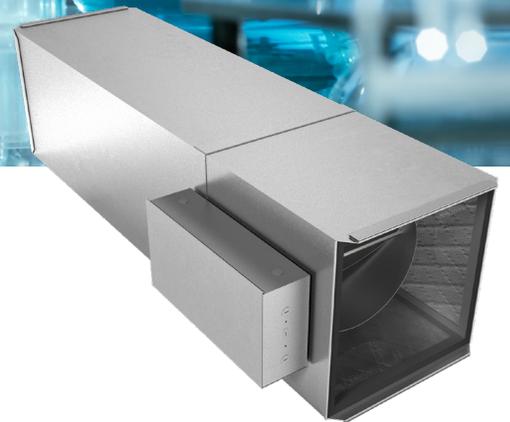


# SDE

SINGLE DUCT EXHAUST TERMINAL UNIT

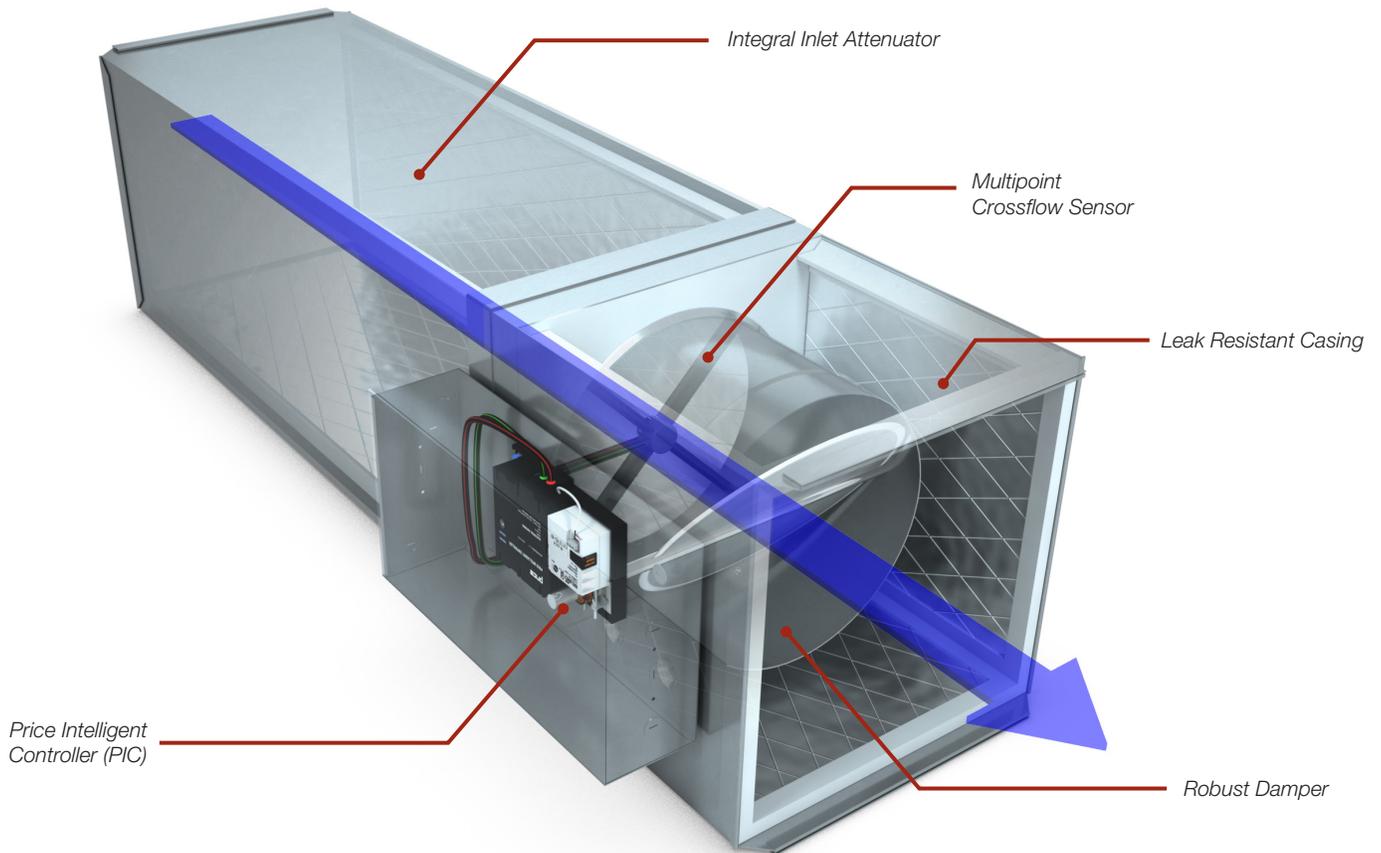


**PRICE** | TERMINAL UNITS

# SDE

## Single Duct Exhaust Terminal Unit

Price SDE single duct exhaust terminal units are designed to control airflow on the return/exhaust side of an air distributor system. The SDE uses the same primary air valve assembly as the supply terminal unit but includes an integral attenuator on the inlet side to prevent airflow generated sound from entering the occupied space.

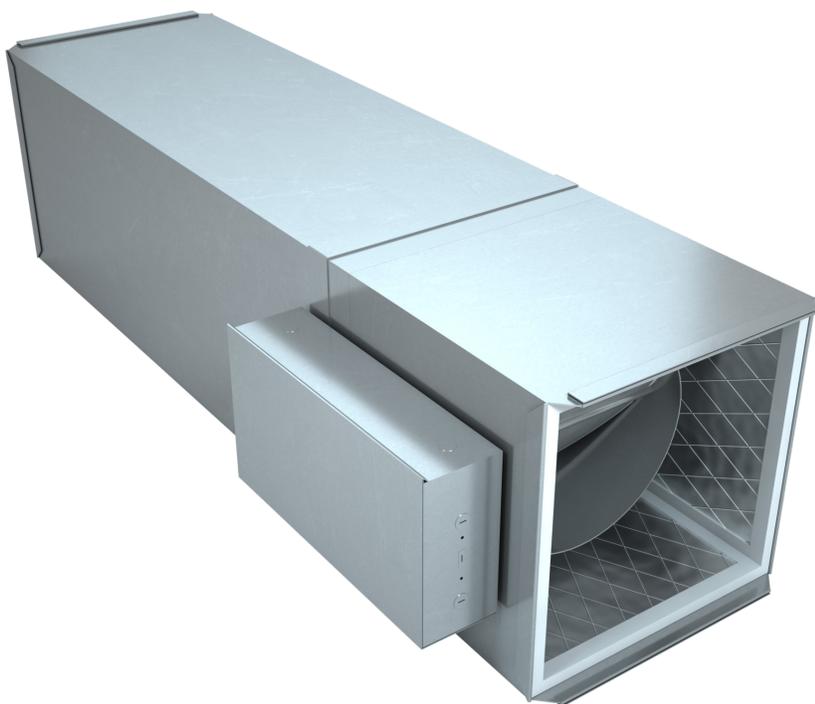


## ENGINEERED PERFORMANCE & VERSATILITY

The Price SDE is designed to control the flow rate of exhaust air from the occupied space in response to a control signal. A typical control sequence would modulate the exhaust airflow with changes to the differential pressure in the occupied space. The clean and efficient design of these single duct terminal units result in a quiet solution for control exhaust airflow.

## CLEANROOM ALUMINUM FOIL FACED LINER

The terminal is supplied with an aluminum foil faced fiberglass liner complete with metal end caps and angles covering all exposed fibers. This liner provides a smooth cleanable surface with no exposed fiberglass which makes it ideal for health care applications.



## TYPICAL APPLICATIONS

The SDE single duct exhaust terminal unit is typically used in applications requiring control of return or exhaust air, often to maintain room pressurization. This terminal is ideally suited for healthcare or laboratory exhaust applications where indoor air quality is a concern.

### STANDARD DESIGN

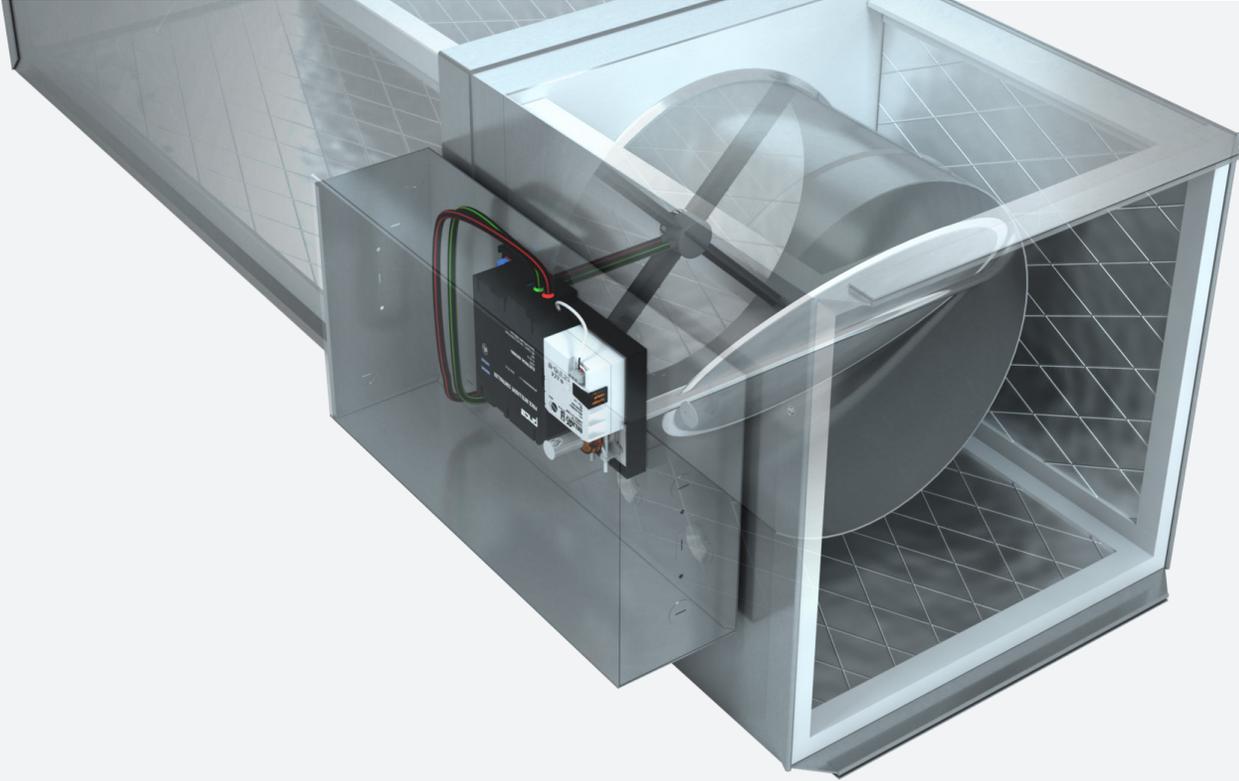
- + Multipoint crossflow sensor for accurate flow measurement
- + Integral inlet attenuator
- + Gasketed damper and mechanically sealed, 22 GA. casing for minimal leakage
- + Aluminum foil faced liner for cleanroom applications

### OPTIONAL FEATURES

- + Integral silencer tested per ASHRAE 130
- + Multiple liner options
- + Top, bottom, or side mounted controls
- + Vertical flow, up or down
- + Removable airflow sensor

## INTEGRAL INLET ATTENUATOR

With an inlet attenuator to enhance quiet operation, the SDE lowers sound generated by the valve when operating in a less than full open position. The attenuator is supplied with a liner to match the terminal unit casing liner.



## INLET SILENCER

Sound sensitive applications often require more attenuation in the air duct system to reduce the amount of discharge noise that reaches the occupied space. Price offers a tuned inlet silencer assembly to maximize the sound control characteristics of the silencer and minimize system effect. The silencer can be selected with polymer film (PL) or woven fiberglass cloth (FC) liner for additional isolation of the fiberglass media.



# SDE

## Single Duct Exhaust Terminal Unit

### REMOVABLE AIRFLOW SENSOR

A removable, bottom mounted airflow sensor simplifies cleaning and maintenance of the airflow sensor, especially in health care applications that typically have a high concentration of dust and fibers in the exhaust airstream.



### INSTALLATION FLEXIBILITY

To facilitate installations with restricted ceiling space, the SDE is available with the controls mounted on the top, bottom, left, or right side of the casing. Additionally, the SDE exhaust terminal unit can be supplied with vertical up or down airflow for further field installation flexibility.

### CONTROLS

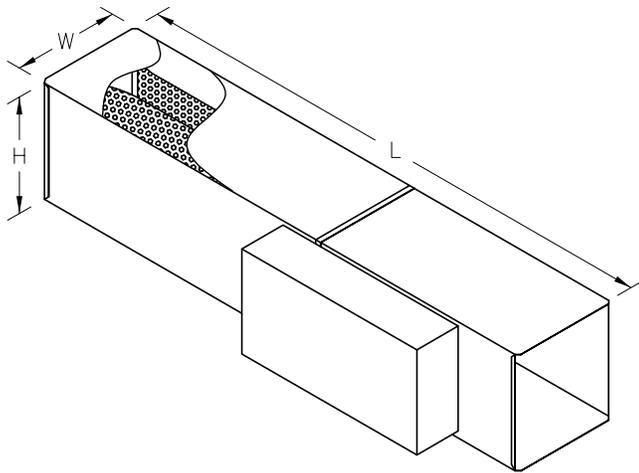
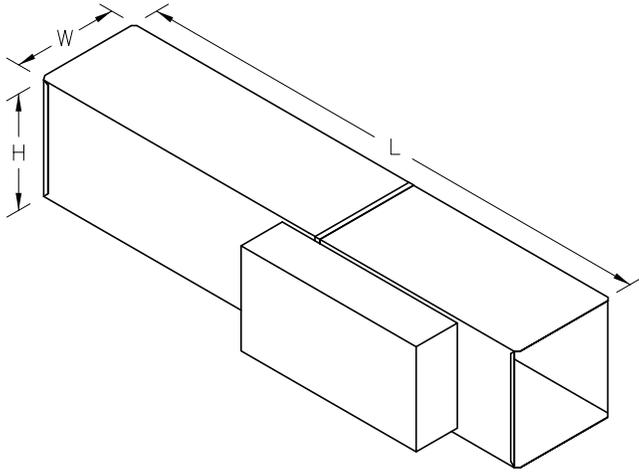
Price offers a complete line of controls to best suit any application. For exceptional user comfort, the Price Intelligent Controller (PIC) universal DDC control package is available factory installed and configured on all SDE units. The PIC can be used in conjunction with any Price thermostat and all Price terminal units to match the specific needs of the customer, and to provide excellent energy efficiency.



### ACCESSORIES

A complete line of additional accessories are offered to meet specific job requirements. Details on these accessories are available in the Terminal Units Accessories catalog.

## DIMENSIONAL DATA



### SDE Basic Box

Size	Length (L)	Width (W)	Height (H)
4	53 1/2 in. (1359 mm)	12 in. (305 mm)	8 in. (203 mm)
5			
6			
7			
8		10 in. (254 mm)	
9			
10	14 in. (356 mm)	12 1/2 in. (318 mm)	
12	16 in. (406 mm)	15 in. (381 mm)	
14	57 in. (1448 mm)	20 in. (508 mm)	17 1/2 in. (445 mm)
16		24 in. (610 mm)	18 in. (457 mm)

**Note:**

1. Add 4 in. (102 mm) to "L" for Removable Sensor

### SDEQ Basic Box

Size	Length (L)	Width (W)	Height (H)
4	56 in. (1422 mm)	12 in. (305 mm)	8 in. (203 mm)
5			
6			
7			
8		10 in. (254 mm)	
9			
10	14 in. (356 mm)	12 1/2 in. (318 mm)	
12	16 in. (406 mm)	15 in. (381 mm)	
14	83 1/2 in. (2121 mm)	20 in. (508 mm)	17 1/2 in. (445 mm)
16		24 in. (610 mm)	18 in. (457 mm)

**Notes:**

1. Add 1 1/2 in. (38 mm) to "L" for Removable Sensor

## PERFORMANCE DATA

### SDE - Recommended Air Volume Ranges

#### Digital Controls

Unit Size	cfm Min.*	cfm Max.
4	50	225
5	55	350
6	70	450
7	100	650
8	130	800

**Notes:**

Factory calibrated controls must be selected within the above flow range limits. A minimum value of zero is also available. When an auxiliary flow setting is specified, the value must be greater than the minimum setting and within the range limits.

On controls mounted by Price but supplied by others, the air volume ranges are guidelines only.

Unit Size	cfm Min.*	cfm Max.
9	170	1050
10	220	1350
12	300	2100
14	390	2600
16	500	3500

\*Minimum airflow limit is based on min .02 in. w.g. differential pressure signal from airflow sensor. Selection of airflow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended airflow limits. The actual performance will vary depending on the terminal unit controls supplied.

Maximum airflow limit is based on max 1.0 in. w.g. differential pressure signal from airflow sensor.

## **price** | **TERMINAL UNITS**

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