

DUCT SMOKE DETECTOR HOUSING D-501



Shown here with Demco Smoke Detector D-233-2

Model D-501

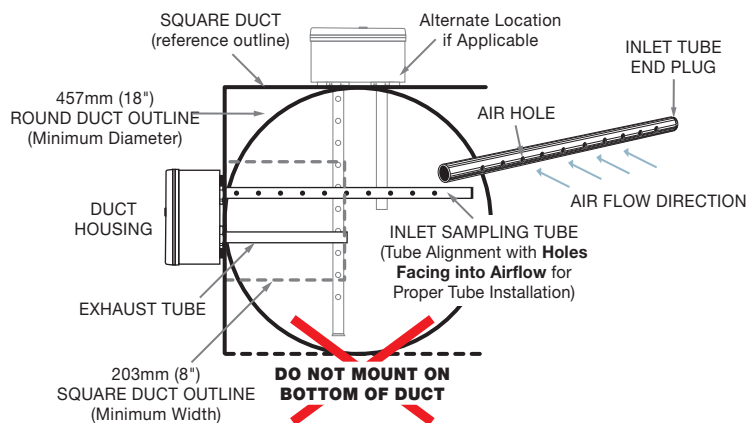
DESCRIPTION

DEMCO Air Duct Smoke Detector Housing **D-501** is compact and comes with a clear cover for ease of monitoring the presence of smoke in heating, ventilation, and air-conditioning (HVAC) systems. This versatile unit can be mounted both vertically or horizontally onto a round or rectangular duct. It can be used with either photoelectric detector head or ionization detector head. The unit operates best at air velocities of 0.5 to 20.32 metre per second (100 to 4,000 feet per minute), temperatures of -20°C to 70°C (-4°F to 158°F), and a humidity range of 0 to 95 percent (non-condensing).

The **D-501** housing completed with a detector head will sample air passing through a duct and detect potentially hazardous conditions. When sufficient smoke is sensed, the detector sends an alarm signal to the control panel which then shuts off fans and blowers or to switch to other air handling systems.

DEMCO ADVANTAGES

- Clear polycarbonate cover for convenient visual inspection.
- Front resealable test port provides functional smoke testing access with cover in place.
- Ample wiring space and screw-holes within housing cater for various mounting needs of different detector brands and bases.



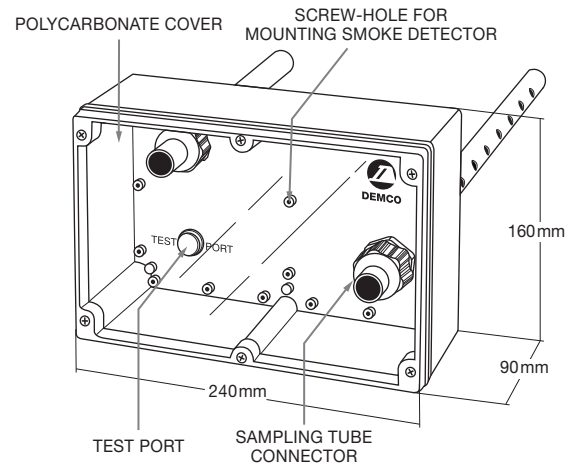
End View with Ducts and Tubes

SAMPLING TUBE SELECTION CHART PER DUCT WIDTH

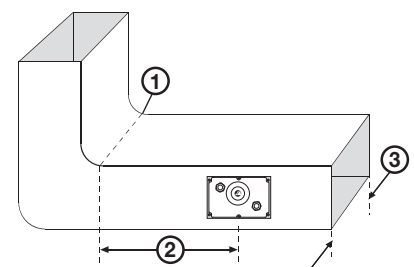
| Overall Duct Width | Suggested Cut Length |
|---------------------------------|---------------------------------------|
| 305 mm (12") | 12.7 mm (1/2") longer than duct width |
| 330 mm to 584 mm (13" to 23") | |
| 610 mm to 1168 mm (24" to 46") | 76 mm (3") longer than duct width |
| 1168 mm to 1803 mm (46" to 71") | |
| 1803 mm to 2413 mm (71" to 95") | |

* Each duct housing comes standard with a 360 mm (14") sampling tube and an exhaust tube. If a longer sampling tube is needed, please specify when order. Additional cost may apply. Refer to chart above to correctly size a sampling tube.

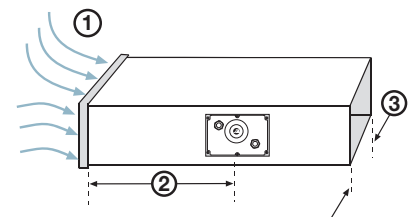
Specifications are subject to change without prior notice.



Typical D-501 Placement

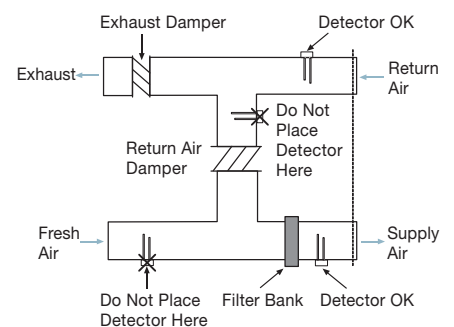


- 1 - Bend or other obstruction
- 2 - Six to ten times the width of the duct
- 3 - Width of duct



- 1 - Return air inlet
- 2 - Six to ten times the width of the duct
- 3 - Width of duct

Duct Detector Placement Reference



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