

PLENUM BOX FOR SLOT DIFFUSER

INTRODUCTION

Plenum boxes are used for supply and exhaust of air through diffusers and grilles. The plenum box ensures a continuous flow to the diffuser, and plenum boxes equipped with dampers create the possibility of adjusting the diffuser on an individual level.

Furthermore, the plenum box is usually supplied with acoustic insulation. This contributes to the sound attenuation inside the box. This way the noise from the air flow inside the air duct system and the sound from room to room is reduced.



DESCRIPTION

COSMOS plenum box for slot diffuser is designed primarily for ceiling and high sidewall installation, they are eminently suited to, and recommended for, VAV applications. It is also designed to ensure equal distribution of air across the slot diffusers.

They maintain a tight and stable horizontal air pattern over a wide range of air volume by air volumes by utilizing the maximum ceiling coanda effect.

The special mechanism provided with plenum facilitates easy attachment with slot diffuser and eliminates air leakage above falls ceiling. Plenums save on site fabrication and field labor.

Plenum box has acoustic lining to reduce noise generated inside the duct due to airflow turbulence before reaching the diffuser.

COSMOS plenum has three series P12, P19 and P25. Series P12 has plenum with slots having width of 12.5mm, P19 has plenum with slots having width of 19mm and series P25 has plenum with slots having width of 25mm. Series P12-D, P19-D and P25-D comes with damper at the inlet. These series has butterfly damper or spigot damper at the inlet for controlling the volume of flow. The built in damper can be operated from the spigot connection or from the face of the diffuser.

FEATURES

- Galvanized steel construction.
- Easily installed with flexible duct.
- Available in various neck openings (100mm to 400mm).
- Standard nominal lengths are 500mm, 600mm, 750mm, 900mm, and 1200mm.
- Width available to fit model series P12, P19 and P25 with 1, 2, 3 and 4 slots.
- Lined internally with acoustic media.
- Round Inlet with damper for controlling air volume. Oval inlet as an option.