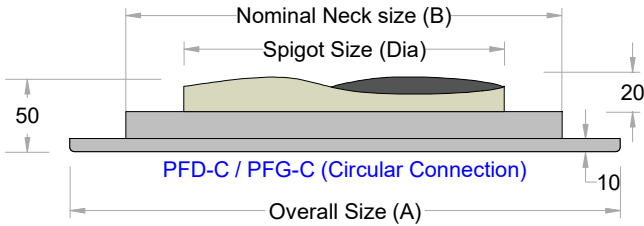
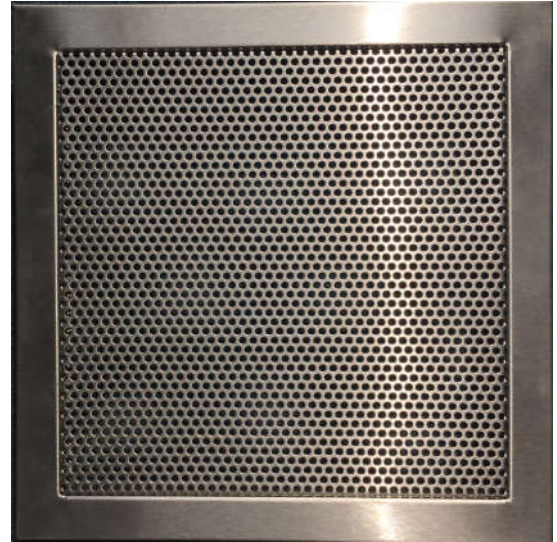
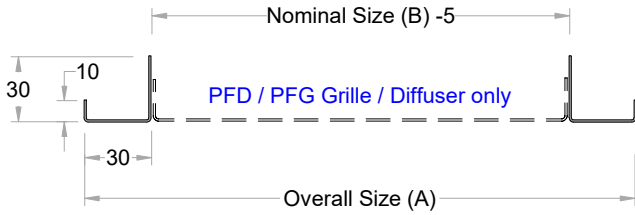


Perforated Face Diffuser (Stainless steel) Type PFD-SS & PFG-SS



DESCRIPTION

The PFD is an air distribution diffuser that can be used for ceiling mounted supply air systems and the PFG is a matching extract grille suitable for ceiling or wall mounted applications.

The PFD diffuser offers a very efficient horizontal air distribution pattern and can be factory set or adjusted on site give 1,2,3, or 4 directions with use of the 4 deflector plates fitted to the rear of the perforated face.

APPLICATIONS

The PFD and PFG range has been specifically designed for use in modular or solid ceilings where a modern yet simple esthetically pleasing diffuser is required. Applications such as offices, schools and retail showrooms etc are perfect for the PFD & PFG. For applications that require a greater hygiene standard such as hospitals, laboratories and kitchens the stainless steel option is available type PFD-SS & PFG-SS.

SPECIALS & MATERIALS

Due to the flexible manufacturing process it is possible to provide alternative face plate arrangements in terms of thickness, texture, and materials such as Stainless Steel, Aluminium, Brass and specialist wood finishes. Alternative shapes are possible e.g. circular and rectangular etc.

SPECIFICATION / CONSTRUCTION

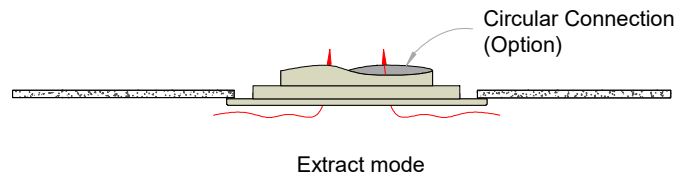
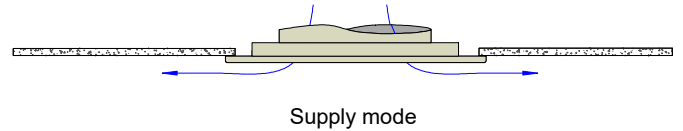
The PFD diffusers shall be constructed from high quality sheet materials and components. The face plate and shall be pierced and pressed from a single section sheet 1mm thick with a stiffening return edge all round. Fixing holes and plenum boxes shall provided if required. The face plate shall be supplied with 4 factory fitted deflector plates on the PFD type.

FINISH

Polyester Powder Coated to a BS or RAL colour. Alternative materials can be provided with a natural or polished finish.

OPTIONS

- Removable Core
- Hinged Core
- Concealed fixings
- Countersunk Screw Holes
- Flat Screw Holes
- Alternative frame sizes
- Alternative Perforations
- Volume Control Damper
- Volume control & Fire dampers.
- Fire rated & standard plenums.
- Circular neck connections



DIMENSIONS:

Grille only dimensions range from a 150 x 150 minimum through to 1200 x 1200 as standard in a single section. Larger single section units can be manufactured however please contact us to discuss the application to ensure that the appropriate construction is considered prior to manufacture.

Circular connection types PFD-C or PFG-C please see the table below for dimensions.

PERFORMANCE GUIDE

Size	Flow Rate	Throw (m)
100	12 - 24	0.5 - 1.0
125	18 - 37	1.0 - 1.5
150	27 - 55	1.5 - 2.0
160	30 - 60	1.8 - 2.2
200	47 - 94	2.0 - 3.0
250	74 - 147	2.8 - 3.5
300	106 - 212	3.0 - 4.0
315	117 - 234	3.1 - 4.3

PFD-C & PFG-C DIMENSIONS

Size	Spigot dia	(A)	(B)
100	98	235 x 235	180 x 180
125	123	270 x 270	215 x 215
150	148	285 x 285	230 x 230
160	158	285 x 285	230 x 230
200	198	335 x 335	280 x 280
250	248	385 x 385	330 x 330
300	298	435 x 435	380 x 380
315	313	535 x 535	480 x 480

Flow Rates

These performance figures are based on a lower spigot velocity of 1.5m/s and a higher spigot velocity of 3m/s.

Noise Levels (NC)

Based on the velocities above the noise levels are between NC 20 and NC 35.

Pressure Loss (Pa)

Based on the flow rates above the pressure loss will be in the region of 10 to 30 Pa depending on the air volume.

Throw

The throw length of the PFD will vary quite considerably depending on the direction of the deflector plates and the air flow rate.