

### DIMENSIONS (mm)

Size	Spigot dia	(A)	(B)
100	98	200 x 200	190 x 190
125	123	225 x 225	215 x 215
150	148	250 x 250	240 x 240
160	158	250 x 250	240 x 240
200	198	300 x 300	290 x 290
250	248	350 x 350	340 x 340
300	298	400 x 400	390 x 390
315	313	415 x 415	405 x 405

### DESCRIPTION

The DFD is an air distribution diffuser that can be used for supply and extract air systems. The gap between the Face Plate and the Top Plate can be adjusted from fully closed to the fully open (60mm) position providing an adjustable throw length by varying the airstream thickness. The DFD diffuser offers a very efficient horizontal radial air distribution pattern from a complete 360 degree spread that can be reduced to just 90 degrees if required.

### APPLICATIONS

The DFD 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 and retail showrooms etc as well as spaces that require a greater hygiene standard such as hospitals, laboratories and kitchens. The smooth simplistic design of the dropped face diffuser allows easy cleaning and maintenance.

### 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

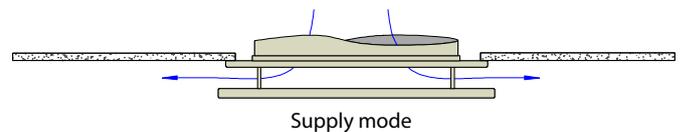
The DFD diffusers shall be constructed from high quality sheet materials and components. The top plate and shall be pierced and pressed from a single section zintec sheet 1.5mm thick with a stiffening return edge all round. Fixing holes or suspension brackets shall fitted if required. The Face plate shall be press formed with a containment edge all round to retain an acoustic pad on the rear. Adjustable spacers shall be provided insett at each corner with no visible fixings or witness marks apparent on the lower surface of the face plate.

### FINISH

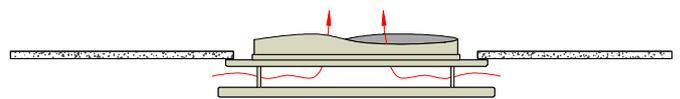
Polyester Powder Coated to a BS or RAL colour. Alternative materials can be provided with a natural or polished finish. The DFD can also be manufactured from a variety of woods

### OPTIONS

Volume control & Fire dampers.  
Fire rated & standard plenums.  
Directional Baffles for restricted flow patterns.



Supply mode



Extract mode

### 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

### 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 depending on the position of the Face Plate and Directional Baffles if fitted.

### 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 Face Plate position and Directional Baffles if fitted.

### Throw

The throw length of the DFD will vary quite considerably depending on the position of the Face Plate and any Directional Baffles that may be fitted in conjunction with the air flow rate selected.