DISPLATEK FDU150/200 Floor Unit

The DISPLATEK FDU150 floor displacement unit is the product and final result of a long development process. It has been developed to handle air, specifically as a floor mounted displacement unit suitable for mounting in offices, auditoriums, lecture theatres and other areas where displacement ventilation is desirable.

The unit, due to its unique design, can be mounted either in the floor, or in a step for a side wall application at low level.

Inherent features of the dust collector, trim ring and the core all being securely held together means that it is suitable for side wall mounting.

The unit comes pre-set as a displacement unit, but by reversing the core, can be used as a floor outlet with a cone shape discharge for upward mixing of air as opposed to displacement.

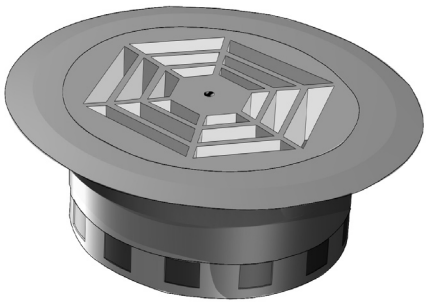
In designing the unit, the design team have taken into account its ease of fitting. It comes complete with a choice of two frames, each of which can be fitted from above. There is no longer the requirement for access to the rear.

The trim ring can be supplied and screwed into place.

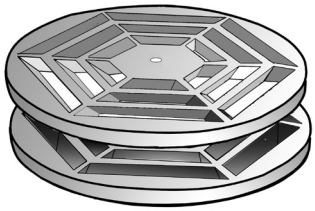
The cores locate positively into a groove in the trim ring, preventing turning of the centre core and easy alignment. The core is physically retained into the dust collector to prevent unauthorised removal.

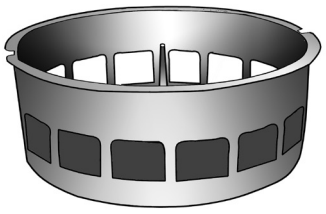
The dust collector has a sliding damper which is positively located and allows easy trimming, again from roomside.

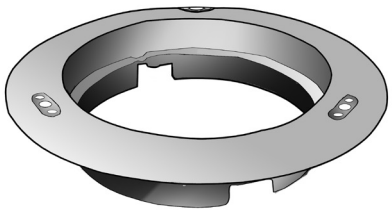
The unit is available in a range of standard colours and it is possible to have different coloured trim rings to core. The standard RAL colour is RAL 7022 Grey but other colours are also available on request. If the area under the floor is not sealed, Tek can provide plenum box for a ducted layout.



DISPLATEK FDU150
Type 150 Ø Unit

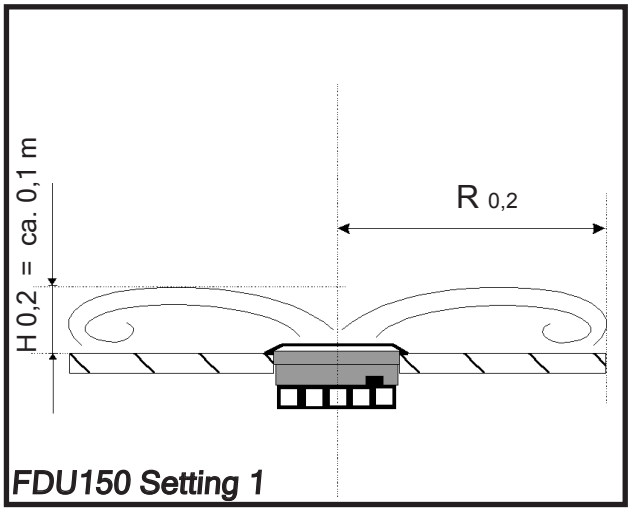




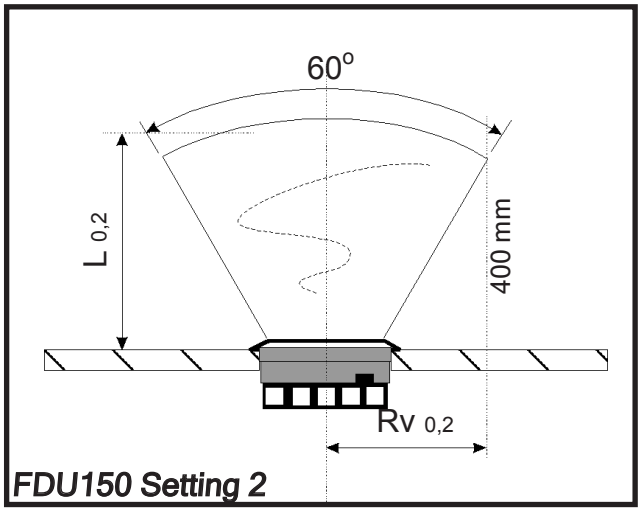


Exploded Diagram

DISPLATEK FDU150
Technical Specification



FDU150 Setting 1



FDU150 Setting 2

Reference:
H 0,2 = Height of jet terminal velocity 0,2 m/s (m)
L 0,2 = Length of jet terminal velocity 0,2 m/s (m)
R 0,2 & Rv 0,2 = Radial throw at terminal velocity 0,2 m/s (m)
V = Air Flow Volume (m3/h)

Size of unit 150mm
Duty 39 m3/h

Pressure Drop 19PA
Vel 0.6 m/s

FDU150 Test Data									
Hz	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**dB(A)**
(dB)	32	31	28	23	15	10	5	0	24

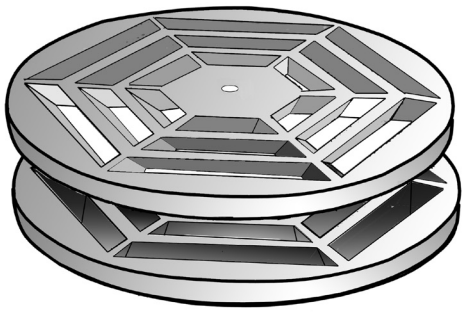
Throw	
Vol (m3/h)	**R0,2**
30	500
45	600
60	800

Size of unit 150mm
Duty 25m3/h

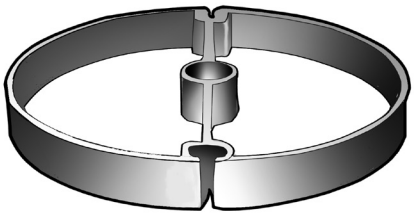
Pressure Drop 8PA
Vel 0.4 m/s

FDU150 Test Data									
Hz	**63**	**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**dB(A)**
(dB)	30	25	18	11	0	0	0	0	15

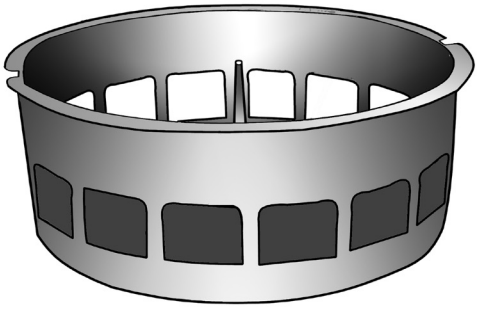
DISPLATEK FDU150
Technical Specification



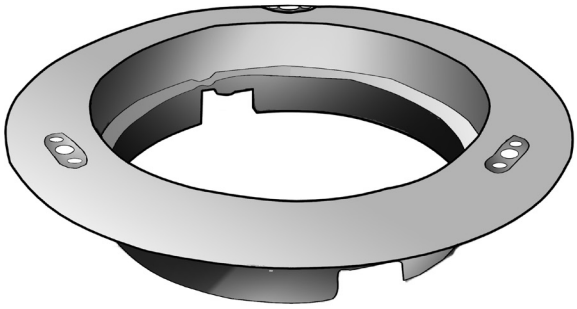
Diffuser Core(s)



Damper

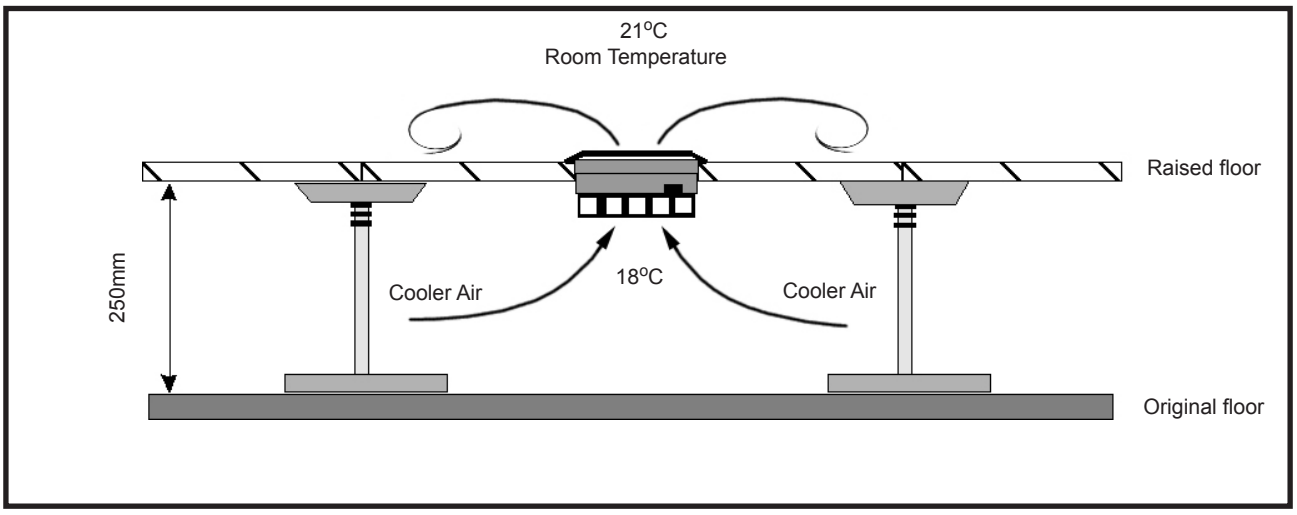


Dust Collector

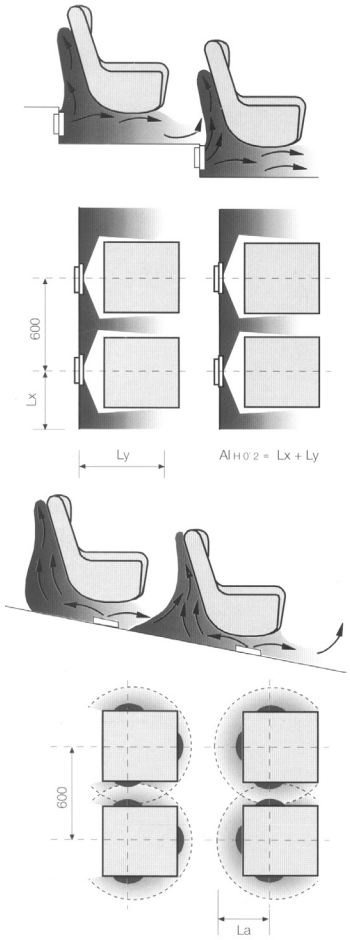


Trim Ring

DISPLATEK FDU150
Typical Installation



Typical Installation Detail



Fitting Instructions:

1. Cut 160mm circular hole diameter
2. Drop in external trim ring with dust collector and damper fitted.
3. Mark through flange for fixing holes as template.
4. Remove and drill pilot.
5. Refit trim ring and locate 3 screw.
6. Tighten evenly.
7. Drop in core taking care to align slot in frame with corresponding key on core.
8. Fit centre screw, fit ring caps (Finished)

Only 1000 more to go!

For floor thickness over 40mm, sepecial extension tubes are available.