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Puravent 423556 TSOI-T-160-T Perforated Face Multidirectional Supply Extract Diffuser User Manual

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Perforated Face Multidirectional Supply Extract
Diffuser User Manual

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Puravent 423556 TSOI-T-160-T Perforated Face Multidirectional Supply Extract Diffuser



Description

Function

The TSOI-T is a perforated facemultidirectional ceiling diffuser with adjustable deflectors set internally. The diffuser is suitable for both supply and extract applications. As standard all side entry plenums are insulated and Top entry

plenums are non insulated. Internal deflectors permit the diffuser to be set for Air pattern direction of 1 to 4 way. Diffuser and deflectors are as standard powder painted to RAL9010.

Product Description

TSOI-T-ØD-T: Top-entry perforated plate supply diffuser

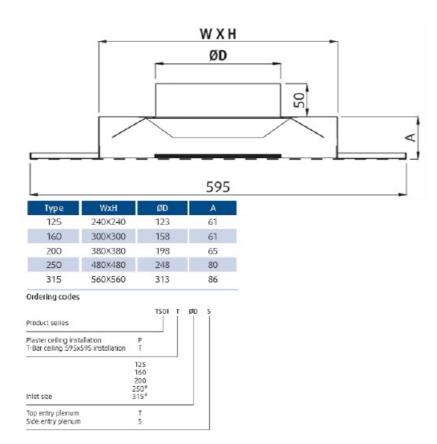
Features

- · Supply and extract functionality
- · Suitable for chilled, isothermal or warmed air
- · Ideal for modular ceiling tile replacement
- · High entrainment and mixing of surrounding air
- · Short throw

Selection Criteria

- · Ceiling Height 2.7m
- Temperature Differential (Room/Supply air) ≤10K
- Lt, throw velocities shown in the table are for 0.375m/s to achieve air velocity of 0.15m/s in the occupied zone.

Dimensions



Documentation

TSOI-T GB.pdf (348,08kB)

Diagram

TSOI			4-Way Supply				
m³/h	I/s		125	160	200	250	319
100	28	L _{16.23}	0.5	0.4			
		ΔP _i (Pa)	8	3			
		L _w .		100			
150	42	L _{st.25}	0.8	0.6			
		ΔP _i (Pa)	16	7			
		L	35	-			
200	56	L _{stat}	1	0.8	0.7		
		ΔP,(Pa)	33	12	5		
		Lws	43	29	-		
250	69	L _{16.25}	1.3	1	0.8	0.5	
		ΔP _t (Pa)	48	18	8	3	
		Lwa	52	37		050	
300	83	L,,,,		1.2	1	0.8	
		ΔP _c (Pa)		28	12	5	
		Lwa		46	28	6.0	
400	111	L _{10,25}			1.3	1.1	0.9
		ΔP ₁ (Pa)			20	9	4
		Lwa			39	(2.5	-
500	139	L _{6.25}			1.6	1.4	1.2
		ΔP _t (Pa)			32	13	6
		Lws			45	33	-
600	167	L _{86,25}				1.7	1.4
		ΔP _c (Pa)				18	9
		L				40	29
750	208	L _{idas}					1.7
		ΔP _r (Pa)					13
		L					37
1000	278	Lux					23
		ΔP _r (Pa)				3	24
		L					48

- L t0.25 = Throw value (m) with terminal velocity of 0.25 m/s
- LWA = Sound Power level in dB (A)
- ΔPt = Total pressure Drop (Pa)

With room height of 2.7m, average occupied room velovity of 0.15m/s can be achieved The diffusers and plenums are tested together as one unit

Selection Example

Selection Criteria

- Ceiling Height 2.7 m
- Temperature Differential (Room to Supply air) ΔT of -10K
- Air Velocity In The Comfort Zone Vt = 0.15 m/s

Result

- TSOI-T-ØD-S
- Air Volume QV = 111 l/s or 400 m3/h
- Throw Lt = 1.1 m
- Pressure Drop ΔPt = 9Pa
- Noise Level LWA ≈ <25dBA

Get In Touch

• Call: 0845 6880112

• Email: info@adremit.co.uk

Documents / Resources



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References

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