

PSWI

- > Swirl Diffuser
- > Supply/Return
- > Fixed Air pattern

DESCRIPTION

Our fixed pattern swirl diffusers are pressed from steel sheets and feature angled radial blades.

This design reduces supply air velocity and creates an air pattern that rapidly mixes with internal air, reducing temperature difference and providing thermal comfort.

CONSTRUCTION

Steel face plate. Circular duct connection.

Finish:

Epoxy powder RAL 9010 (visible parts only).

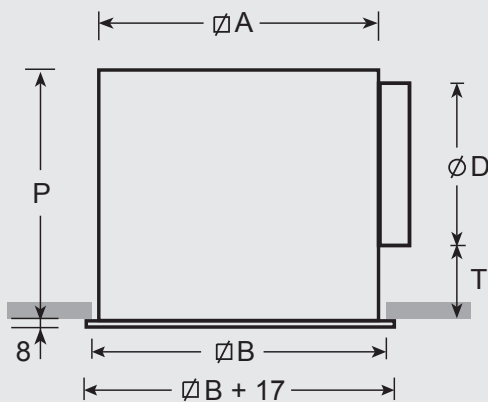
Options:

- Damper
- Lined/Unlined Plenum

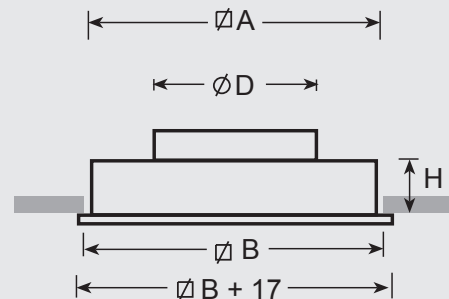
MODELS

PSWI-S: Supply
PSWI-R: Return

PSWI – Side Connection



PSWI – Top Connection



WEIGHT (kg)

Size	Round top		Lined Plenum		Ø Damper
	S	R	S	R	
250	2.4	2.0	3.0	2.7	0.1
350	4.0	3.3	5.2	4.5	0.2
450	6.0	5.0	7.9	6.8	0.3
550	8.5	6.9	11.2	9.6	0.4

DIMENSIONS (mm)

Size	B	A	D	T	P	H
250	278	273	123	55	215	110
350	378	373	158	65	260	125
450	478	473	198	75	310	140
550	578	573	248	75	360	160

S = Supply R = Return (Perforated only: 12 kg)

PSWI – SELECTION DATA

SUPPLY SELECTION DATA																
Air Volume (m³/s)		0.020	0.025	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.125	0.150	0.200	0.250		
Size	250	T	0.7	0.9	1.1	1.5	1.9	2.2	2.6	3.0						
		Pa	3	5	7	13	20	28	38	50						
		dB(A)	-	-	16	24	30	34	38	42						
	350	T			0.9	1.2	1.4	1.7	2	2.3	2.9	3.6				
		Pa			3	5	7	11	15	19	30	46				
		dB(A)			-	-	16	21	25	29	34	40				
	450	T					1.1	1.3	1.5	1.7	2.2	2.7	3.2	4.3		
		Pa					2	3	4	6	9	14	20	36		
		dB(A)					-	-	13	16	22	28	32	40		
	550	T							1.3	1.5	1.9	2.3	2.8	3.7	4.6	
		Pa							2	3	5	7	11	19	30	
		dB(A)							-	-	14	20	25	32	38	

RETURN SELECTION DATA														
Air Volume (m³/s)		0.025	0.030	0.040	0.050	0.060	0.070	0.080	0.100	0.125	0.150	0.200	0.300	
Size	250	Pa	5	7	13	20	29	40						
		dB(A)	8	12	20	26	30	34						
	350	Pa			5	7	10	14	19	29	45			
		dB(A)			-	13	17	21	25	31	36			
	450	Pa					3	4	6	9	14	21	57	
		dB(A)					-	9	12	18	24	29	42	
	550	Pa							3	5	8	11	31	44
		dB(A)							-	10	16	21	34	39

KEY INFORMATION

Throw based on diffuser installed in a standard dropped ceiling.

T = Throw in metres (m)

Pa = Static Pressure Drop

dB(A) = Sound Pressure Level