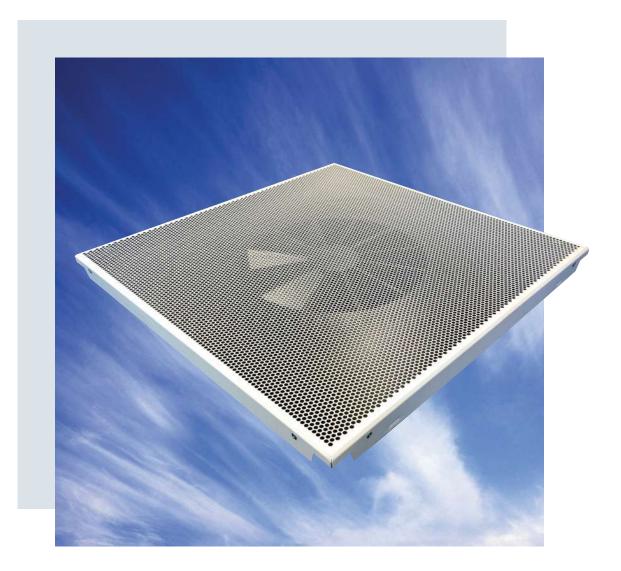




ENGINEERED AIR PRODUCTS

PERFORATED SWIRL DIFFUSERS PW SERIES





PERFORATED SWIRL DIFFUSERS

PW SERIES

QUALITY AND EFFICIENCY WITHOUT COMPROMISE

Application

The PW perforated swirl diffuser offers a good balance between performance and aesthetics. The fixed swirl unit can deliver high air change rates compared to more conventional diffusers.

The PW type can be supplied to suit any ceiling type from standard lay-in 595x595 to 24m T tegular edge applications.

A surface mounted option is also available. Please contact the Sales Office for further details.

Description

A circular swirl diffuser with press formed blades sits behind a perforated face.

The unit can be supplied fixed face or come with a hinged opening.

Four swirl diffuser sizes are available as standard. Please refer to the performance data to select which size swirl is best suited to your requirements.

Fixing

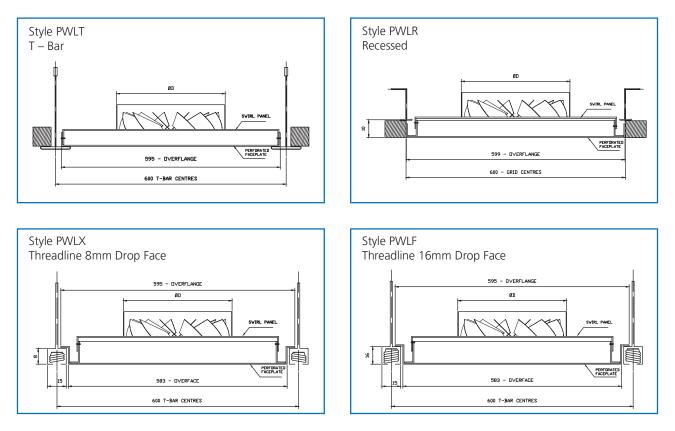
The PW swirl diffuser is suitable to mounting at height if between 2.4 and 4 metres from floor level.

The diffuser can be provided with a fixing bracket for use with support rods or wires.

Finish

The diffuser is supplied powder coated white (RAL9010) matt or gloss as standard. The swirl behind the perforated plate can be white (RAL9010) or black (RAL9005)

Alternative Ceiling Fixings



Options and Order Codes

Diffuser codes

1. SERIES	2. STYLE	3. CORE	4. ACCESSORIES	5. ARRANGEMENT	6. FIXING	7. FINISH
Р	W Swirl	L Fixed R Removable S Surface Mounted	 T T-bar X Threadline mounting 8mm drop F Threadline mounting 16mm drop R Recessed / Burgess mounting 	O Swirl 1 Special	 O None B Support Bracket 1 Special 	 F RAL 9010 matt white E RAL 9010 gloss white 1 Special

Plenum codes

1. SERIES	2. LINING	3. INSTALLATION METHOD	4. ACCESSORIES	5. ARRANGEMENT	6. SPIGOT TYPE	7. SPIGOT SIZE (DIA or SQ – all in mm)
P	L Lined N Unlined 1 Special	0 Straight Edge 1 Special	 None Monoblade Damper Nonoblade Damper Painted Matt Black) P Plenum Painted Matt Black) Internally 	S Supply E Extract 1 Special	 R Round — Side entry S Square — Side entry T Round — Top Entry W Round — Flush with top of unit X Square — Flush with top of unit Y Square — Top Entry 1 Special 	A 100 P 280 B 125 F 300 C 150 N 315 L 160 G 350 T 175 S 355 M 180 H 400 D 200 J 450 R 225 K 500 E 250 1 Special All Standard Spigots are 75mm deep. 400

Example of Order Codes

PWLTOOF PLOOSRE

4560 4560

Supply diffuser complete side entry plenum with 1 \times 250 spigot

Overall diffuser size 595 \times 595 for a standard lay-in ceiling grid with a 450mm diameter swirl.

Performance data

Nominal Size Code	Volume (l/s)	Volume (mȝ/s)	Pressure Drop (Pa)	Throw to 0.5 m/s Velocity (m)	NoiseRating (NR)
	30	0.03	14	0.6	20
4620	40	0.04	25	0.7	21
1630	50	0.05	39	1	36
	60	0.06	57	1.2	42
	30	0.03	14	0.6	20
	40	0.04	25	0.7	21
1660	50	0.05	39	1	36
	60	0.06	57	1.2	42
	50	0.05	7	0.5	16
	60	0.06	11	0.7	21
	70	0.07	15	0.9	26
2562	80	0.08	20	1.1	30
2560	90	0.09	25	1.2	33
	100	0.1	30	1.4	37
	110	0.11	37	1.5	40
	120	0.12	45	1.7	42
	90	0.09	8	1	17
	100	0.1	11	1.1	20
2460	120	0.12	16	1.3	24
3160	140	0.14	22	1.5	30
	160	0.16	31	1.9	34
	180	0.18	39	2.1	38
	160	0.16	6	1	14
	180	0.18	8	1.2	17
	200	0.2	10	1.4	20
4560	220	0.22	12	1.6	23
	260	0.26	17	2	28
	300	0.3	20	2.3	32
	350	0.35	26	2.8	40

Performance figures are for diffuser only and assume supply air temperature -10 to +10 degrees C relative to room temperature. Pressure drop shown is static pressure drop for diffuser only and does not allow for effect of plenum.

Above figures are for supply applications for return applications multiply PA x 0.8. Also see our P Series Perforated Diffusers for compatible extract options.

Throw value is measured horizontally to terminal velocity of 0.5m/s and assumes ceiling effect.

All NR ratings based on room absorption of 8dB, dampers fully open.

PRODUCT RANGES

GRILLES
Linear Bar
Ceiling
Sidewall
Floor
Computer Floor
Cill
Single & Double Deflection
Egg Crate
Hinged Core
Door Transfer
Security and Prison
Supply and Extract Valves

DIFFUSERS
Linear Slot
Louvre Face
Sidewall
Perforated Face
Circular
Swirl
Ceiling
Sidewall Fixed & Adjustable
Jet Flow / Nozzle
Repus Displacement Ventilation

LOUVRES
External
Circular
Door
Screens
Penthouse
Sand Louvres
Roof Louvres

BESPOKE SERVICE

We offer a bespoke design service where standard products do not fit the requirements of the build, we also supply products in special colours and finishes including bronze, brass, gold and chrome to meet Architectural design specifications.





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