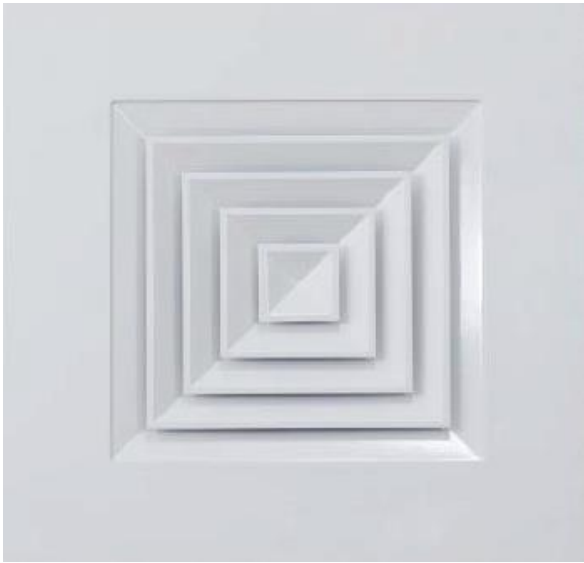


PLAQUE CEILING DIFFUSERS

Model PQCD



The Polyaire range of Square Plaque Ceiling Diffusers are designed to provide excellent directional performance typically in a 4 way airflow pattern only.

The frame is made of steel with the core made from extruded aluminium.

The diffuser offers a removable core as standard

The flush frame is designed for surface mounting in the ceiling or alternatively as a lay-in T-Bar ceiling installations.

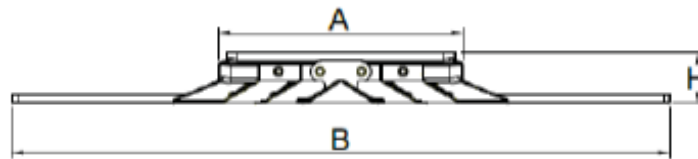
Standard finish is powder coat white (RAL 9010) while other finishes are available to suit the interior and architectural design requirements.

The LFD range is suitable for heating, cooling or ventilation in commercial and domestic applications

Diffuser ratings are based on mounting height being 2.8 metres.

Throw range is defined by the minimum and maximum horizontal distances at right angles to the side of the diffuser.

Note: Stock diffusers can also be provided with internal blanking plates to achieve 1, 2 & 3 way blow & 2 way corner blow.



Item #	Description	Neck Size (AxA)	Face Size (BxB)	Height (H)
247800	PQCD - 595 x 595 / 150 x 150mm	145 x 145mm	595 x 595mm	51mm
247801	PQCD - 595 x 595 / 225 x 225mm	220 x 220mm	595 x 595mm	51mm
247802	PQCD - 595 x 595 / 300 x 300mm	295 x 295mm	595 x 595mm	51mm
247803	PQCD - 595 x 595 / 375 x 375mm	370 x 370mm	595 x 595mm	51mm

Features

- Outer frame material: Steel
- Core material: Aluminium 6061T5
- Colour: Standard RAL9010
- Opposed Blade Damper (optional)

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Square Ceiling Diffusers

Type LFD

NECK SIZE (mm)	Airflow (L/s)	Velocity (m/s)	STATIC PRESSURE DROP (P/a)	NR (dB)	Minimum Throw (m)	Maximum Throw (m)
150x150	100	2	9	17	0.4	1.4
	150	3	15	19	1.2	2.5
225x225	100	2	15	<22	0.5	1.5
	150	3	35	28	1.4	3.2
300x300	150	1.7	12	<22	0.9	2.7
	200	2.2	19	23	1.4	3.3
	250	2.8	31	26	2.2	4.2
	300	3.3	42	31	2.8	4.6
375x375	250	1.8	13	<22	1.3	3.4
	300	2.1	18	<22	1.5	3.9
	350	2.5	26	28	1.7	4.6
	400	2.9	32	31	2.1	5
	450	3.2	39	35	2.7	5.2

Opposed Blade Dampers - Effect of Volume Control on Noise Levels

The additional noise level for diffusers with Opposed Blade Dampers installed is set out in the following table:

NR Addition for OBD		
Diffuser with OBD	Fully Open	50% Closed
NR 25 or less	1	5
NR 30	1	6
NR 35	2	8

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