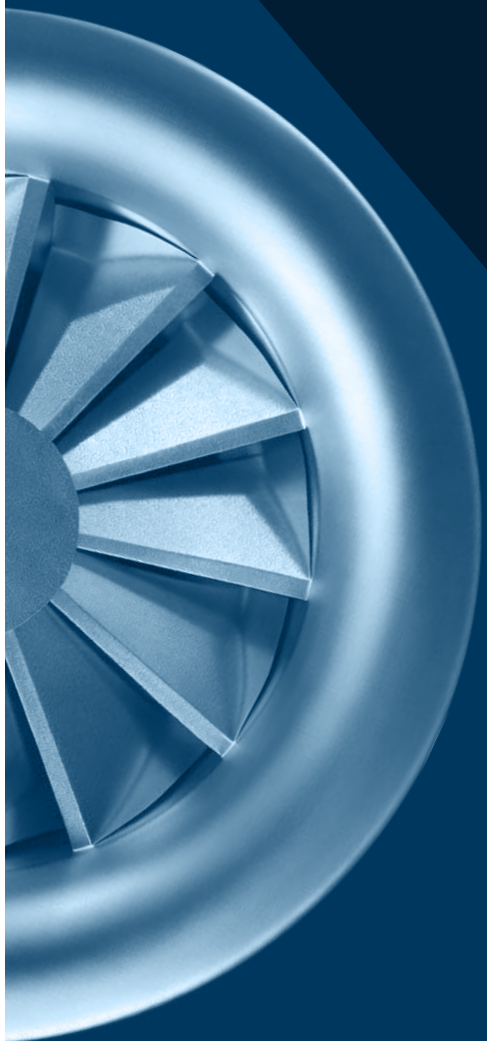


Product Catalogue

polyaire | UNITED
KINGDOM



Welcome to Polyaire

Polyaire is Australia's leading manufacturer and distributor of air conditioning products and components, with a growing presence in the United Kingdom.

Established in 1973, Polyaire has built a reputation for quality, reliability, and service. Our UK division, established over 20 years ago, has undergone significant expansion and now operates from Kettering, Northamptonshire, supplying both residential and commercial markets.

Supported by a global supply network across Australia, Malaysia, and China, Polyaire offers access to a comprehensive product range, delivering consistent quality at competitive prices.

Our Products

Polyaire supplies a comprehensive range of air conditioning components and accessories for residential and commercial applications.

From ducting and fittings to grilles, diffusers, and installation consumables, our products are designed to deliver consistent performance and long-term reliability.

Built with installers in mind, the range prioritises ease of installation and practical efficiency on site — helping customers complete projects with confidence.



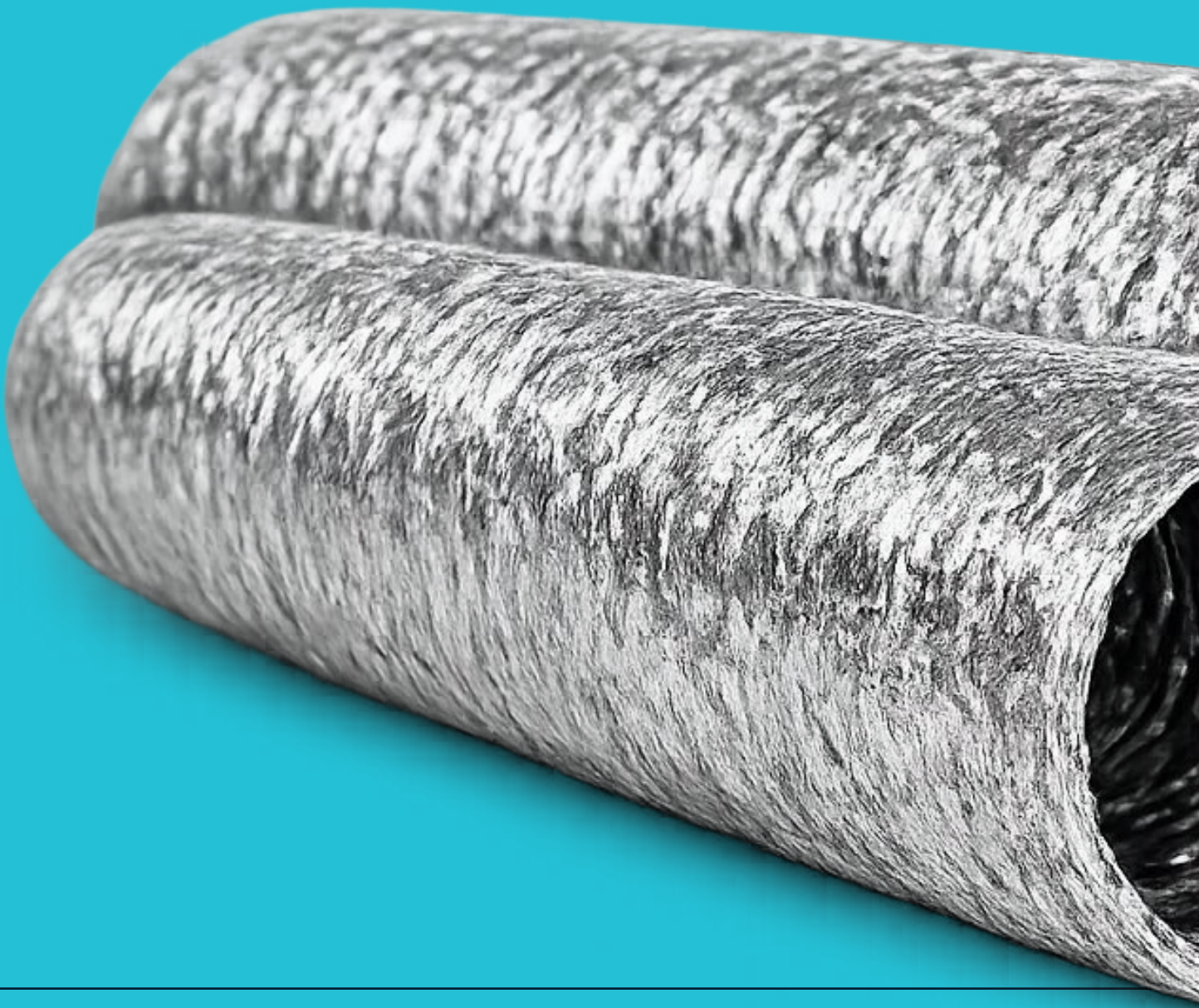
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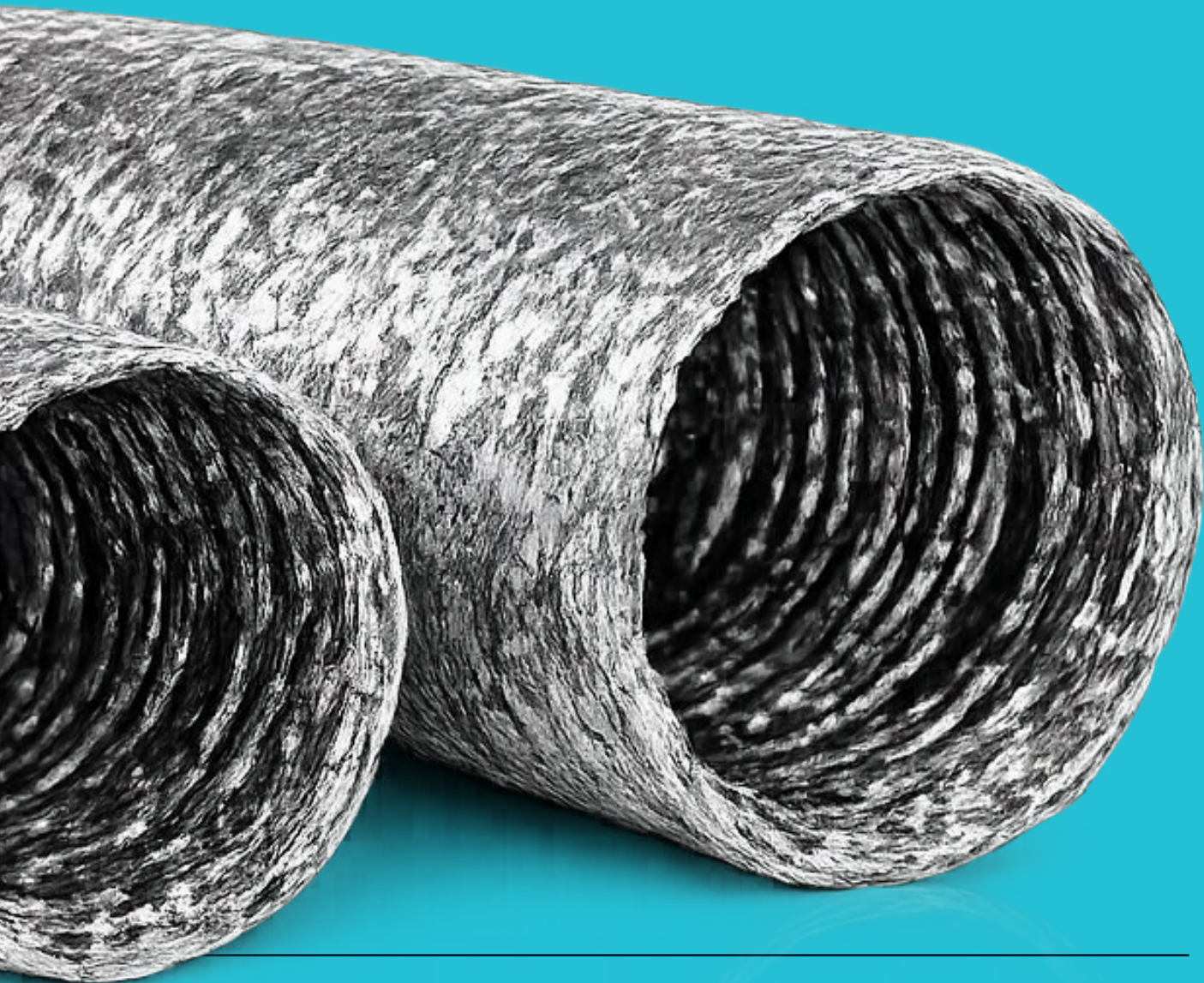
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Flexible Duct

Air conditioning Flexible ducting, also known as 'flex', is used to transport heated or cooled air from the unit around the building and vice versa through the grilles or diffusers.

The performance of each ducting system is widely impacted by the quality of its material, sizing, its R value and the way it's been installed.





Insulated Flexible Duct

Insulated Flexible Duct

Polyaire Insulated Flexible Duct consists of an aluminium laminate inner duct, thermally insulated with a glass wool layer, and finished with an aluminium laminated outer jacket. The insulation is suitable for preventing condensation and minimising heat loss / loss of cold.



Available diameters

Ø 102 mm – Ø 406 mm

Standard length

10 metres

Packaging

Individual box of 1 metre

Inner duct

Alu/poly laminate
0.021mm thickness

Insulation

Glass wool blanket, 25 mm, density 16 kg/m³

Outer jacket

Poly/metalised poly laminate
0.031mm thickness

Operating temperature

-30°C to +140°C

Max. air velocity

30 m/s

Max. working pressure

2500 Pa

Fire classification

BS476 : Part 6, 7 & 20

R-value glass wool: 0.65 m² K/W (ASTM C177-76)

Item Code	Diameter (mm)
110000/10	Ø 102
110001A/10	Ø 127
110001/10	Ø 152
110003/10	Ø 203
110005/10	Ø 254
110007/10	Ø 305
110008/10	Ø 315
110009/10	Ø 356
110011/10	Ø 406

Firebreak Insulated Flex R1.0

Polyaire Firebreak Flexible Duct is manufactured from metalised Mylar and clear Mylar substrates, with an enclosed helically wound galvanised high tensile steel wire. Layers are bonded with a fire retardant adhesive; insulation is a polyester thermal blanket, with a metalised outer fire jacket.



Available diameters

Ø 150 mm – Ø 250 mm

Outer jacket

Poly/metalised poly laminate
0.031mm thickness

Standard length

6 metres

Operating temperature

-20°C to +80°C

Packaging

Individually packed

Max. air velocity

30 m/s

Inner duct

Alu/poly laminate
0.021mm thickness

Max. working pressure

-190 Pa to +1200 Pa

Insulation

Polyester 50mm

Fire classification

BS476 : Part 6, 7 & 20

Item Code	Diameter (mm)
120001/6	Ø 150
120003/6	Ø 200
120005/6	Ø 250

Non-Insulated Flexible Duct

Non-Insulated Flexible Duct - MCFR

Flexible, strong laminate duct made from multiple layers of aluminium and polyester, with a high-tensile steel spiral helix enclosed between the layers. 'Sandwich construction' keeps layers fully overlapping; fire resistance tested to current UK standards.



Available diameters

Ø 102 mm – Ø 406 mm

Wire pitch

12, 18 & 25mm

Standard length

10 metres

Operating temperature

-30°C to +250°C

Packaging

Individual box of 0.4 metres

Max. air velocity

30 m/s

Construction

Aluminium + polyester multi-layer laminate, steel spiral helix, overlapping "sandwich" build.

Max. working pressure

3000 Pa

Nominal thickness

87 microns

Fire classification

BS476 : Part 6, 7 & 20

R-value glass wool: 0.65 m² K/W (ASTM C177-76)

Item Code	Diameter (mm)
160074/10	Ø 102
160074A/10	Ø 127
160075/10	Ø 152
160076/10	Ø 203
160077/10	Ø 254
160078/10	Ø 305
160079/10	Ø 315
160080/10	Ø 355
160081/10	Ø 406

Black Combi Flex

Fully flexible, reinforced, lightweight Aluminium/Polyester + PVC laminated duct for low/medium/high pressure HVAC supply or extract (commercial & industrial). Includes a high-tensile steel wire helix and a tough co-polymer outer duct/vapour barrier for extra air-tightness and durability.



Available diameters

Ø 102 mm – Ø 406 mm

Wire pitch

Ø 102 mm = 25 mm
Ø 125 mm – Ø 508 mm = 37 mm

Standard length

5 metres

Operating temperature

-30°C to +120°C

Packaging

Individual box of 0.5 metres

Max. air velocity

30 m/s

Construction

Laminated, reinforced aluminium/polyester
& PVC

Max. working pressure

2500 Pa

Nominal thickness

87 microns

Fire classification

BS476 : Part 6, 7 & 20

Item Code	Diameter (mm)
170000/6	Ø 102
170001/6	Ø 127
170002/6	Ø 152
170003/6	Ø 203
170004/6	Ø 254
170005/6	Ø 305
170006/6	Ø 315
170007/6	Ø 355
170008/6	Ø 406

Flexible Duct Accessories

Duct Connectors

- Manufactured from durable metal for long-lasting performance and reliability.
- Designed to provide secure connections between duct sections while maintaining airflow integrity.
- Helps reduce vibration and noise transfer through the ducting system.
- Simple, straightforward installation for fast on-site assembly.



Item Code	Diameter (mm)	Height (mm)	Material	Colour
DC100	Ø 100	70	Metal	Silver
DC125	Ø 125	70	Metal	Silver
DC150	Ø 150	70	Metal	Silver
DC200	Ø 200	100	Metal	Silver
DC250	Ø 250	100	Metal	Silver
DC350	Ø 350	100	Metal	Silver

Consumables

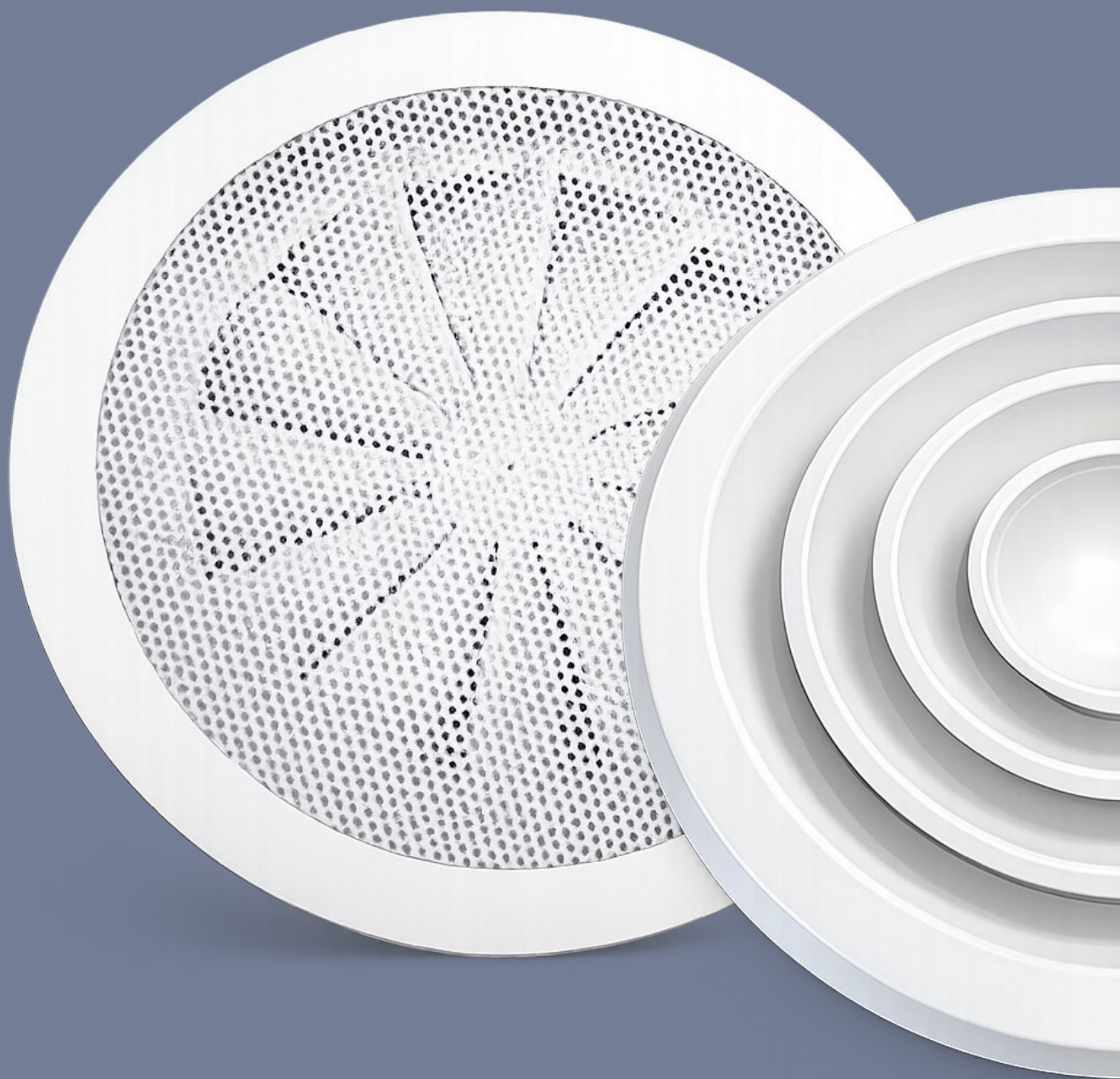
- Complete range of essential HVAC consumables for installation and finishing.
- Includes Jubilee clips and banding for secure duct connections.
- Foil tape designed for reliable sealing and long-lasting adhesion.
- Duct sealant for airtight joints and improved system efficiency.

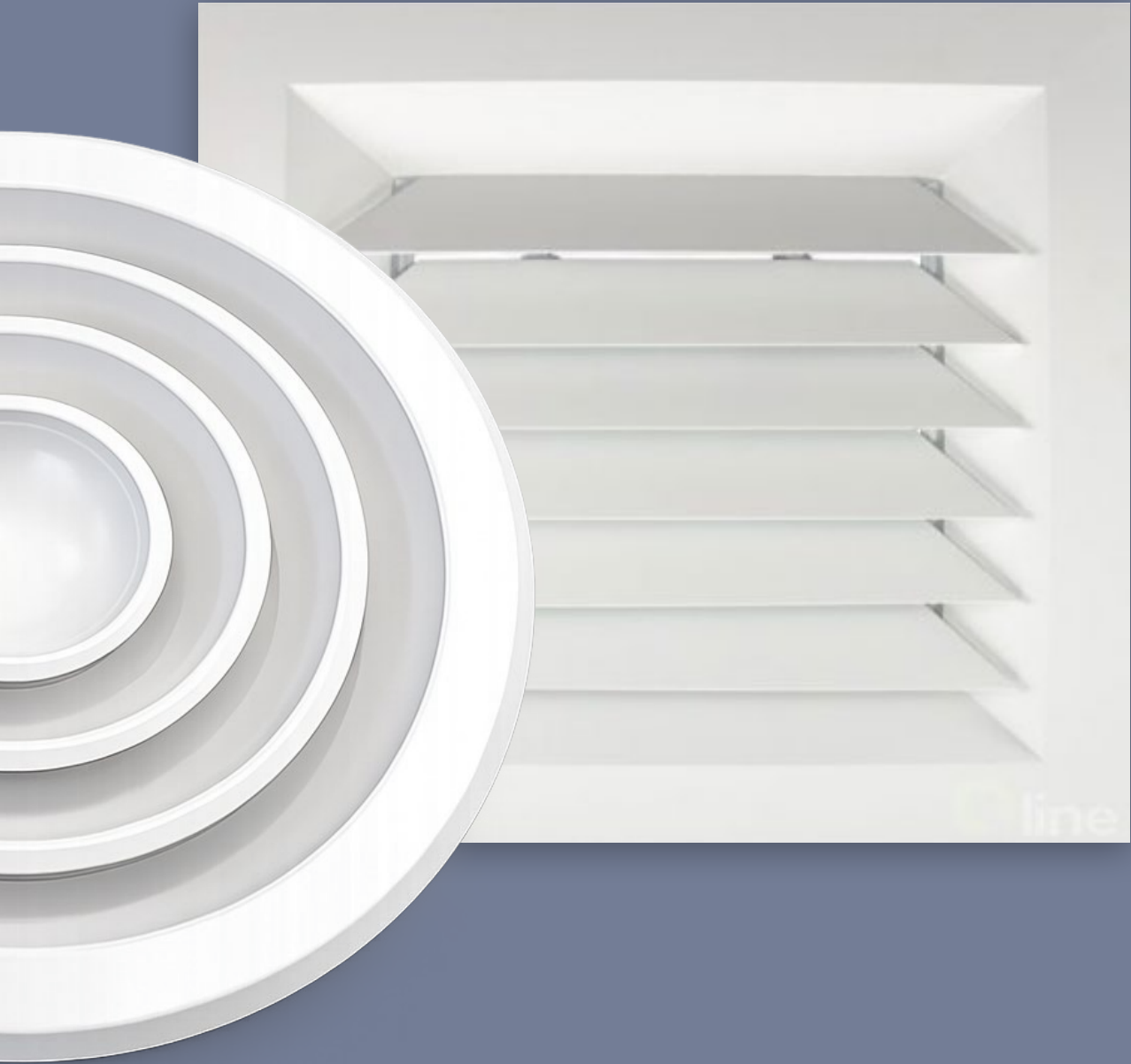


Item Code	Diameter (mm)	Height (mm)	Material	Colour
Fasteners & Jubilee Clips				
866001	Jubilee Clip	Ø 100 - 525	Silver	1
866002	Jubilee Clip	Ø 100 - 270	Silver	1
866003	Jubilee Clip Banding	N/A	Silver	30m Roll
866004	Banding Screw Clips	N/A	Silver	50
Tape & Sealants				
866000	Foil Tape	50mm	Silver	1
866005	Duct Sealant	N/A	Grey	310 ml

Diffusers

Polyaire's air diffusers designed for commercial air conditioning installations seamlessly distribute heated or cooled air around your project.





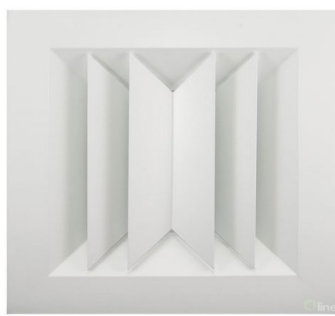
Square Ceiling Diffusers

Louvre Faced Diffusers - LFD

- Manufactured from extruded aluminium sections with a standard RAL 9010 white powder-coat finish.
- Designed for ceiling application; OBD options available.
- Fixed vertical blades at 45° that block line-of-sight through the grille.
- Fixing system via clips, latches, or drilled holes.



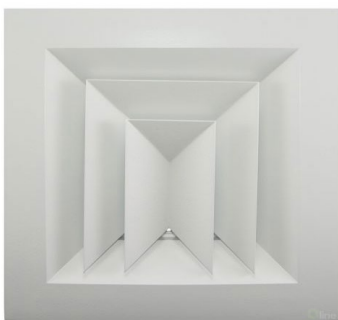
Flush Face Diffuser
- 1 Way Blow



Flush Face Diffuser
- 2 Way Blow



Flush Face Diffuser
- 2 Way Corner Blow



Flush Face Diffuser
- 3 Way Blow



Flush Face Diffuser
- 4 Way Blow



Flush Face Diffuser
- Double Tile 4 Way Blow

Options

Opposed Blade Damper variants.

All 4-way sizes are stocked in RAL9010 & RAL9016.

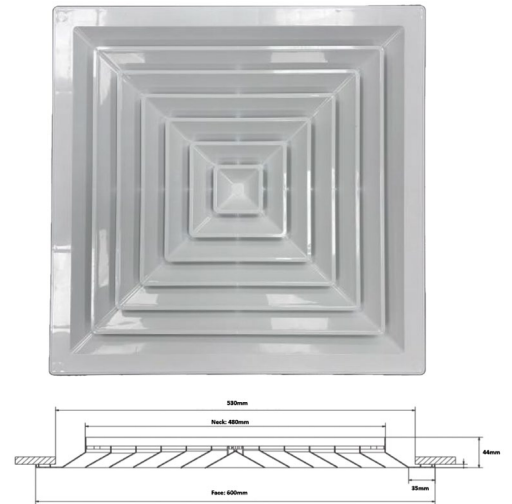
248005/TEG 8 - Tegular 8mm 4-way Blow Diffuser 450 x 450mm Neck.

Available in RAL9005 Black.

Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
Flush Face Diffuser - 1 Way Blow				
248001/1W	150 x 150	146 x 146	225 x 225	295 x 295
248002/1W	225 x 225	221 x 221	300 x 300	370 x 370
248003/1W	300 x 300	296 x 296	380 x 380	450 x 450
248004/1W	375 x 375	371 x 371	450 x 450	520 x 520
248005/1W	450 x 450	446 x 446	525 x 525	595 x 595
Flush Face Diffuser - 2 Way Blow				
248001/2W	150 x 150	146 x 146	225 x 225	295 x 295
248002/2W	225 x 225	221 x 221	300 x 300	370 x 370
248003/2W	300 x 300	296 x 296	380 x 380	450 x 450
248004/2W	375 x 375	371 x 371	450 x 450	520 x 520
248005/2W	450 x 450	446 x 446	525 x 525	595 x 595
Flush Face Diffuser 2 Way Corner Blow				
349001/2WC	150 x 150	146 x 146	225 x 225	295 x 295
349002/2WC	225 x 225	221 x 221	300 x 300	370 x 370
349003/2WC	300 x 300	296 x 296	380 x 380	450 x 450
349004/2WC	375 x 375	371 x 371	450 x 450	520 x 520
349005/2WC	450 x 450	446 x 446	525 x 525	595 x 595
Flush Face Diffuser - 3 Way Blow				
248001/3W	150 x 150	146 x 146	225 x 225	295 x 295
248002/3W	225 x 225	221 x 221	300 x 300	370 x 370
248003/3W	300 x 300	296 x 296	380 x 380	450 x 450
248004/3W	375 x 375	371 x 371	450 x 450	520 x 520
248005/3W	450 x 450	446 x 446	525 x 525	595 x 595
Flush Face Diffuser - 4 Way Blow				
248001	150 x 150	146 x 146	225 x 225	295 x 295
248002/200 N	200 x 200	196 x 196	275 x 275	345 x 345
248002	225 x 225	221 x 221	300 x 300	370 x 370
248002/250 N	250 x 250	246 x 246	325 x 325	395 x 395
248003	300 x 300	296 x 296	380 x 380	450 x 450
248004/495x495	350 x 350	346 x 346	425 x 425	495 x 495
248004	375 x 375	371 x 371	450 x 450	520 x 520
248005	450 x 450	446 x 446	525 x 525	595 x 595
248005 RAL9005	450 x 450	446 x 446	525 x 525	595 x 595
Flush Face Diffuser - Double Tile 4 Way Blow				
248100	1050 x 450	1046 x 446	1125 x 525	1195 x 595

Louvre Faced Diffusers Plastic - LFD-P

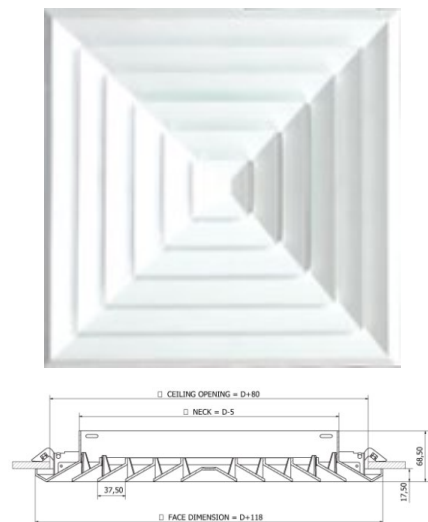
- Designed to provide excellent directional performance typically in a 4 way airflow pattern.
- Manufactured in plastic, the diffuser offers a removable core as standard.
- They are lightweight and will not corrode.
- The flush frame is designed for surface mounting in the ceiling or alternatively as a lay-in T-Bar ceiling installations.
- Standard finish is white.



Item Code	Exact Neck (mm)	Face X x Y (mm)	Height (mm)
231400	480 x 480	595 x 595	44

Classic Bevel Face Diffuser - LFD-BB-P

- Stylish, economical bevel-face diffuser with a classic modern look to suit most interiors.
- Flexible installation: available in 230 / 300 / 350mm square, with neck adaptor options and a snap-in core to hold the biscuit securely.
- Optimised 4-way airflow for balanced air distribution and comfort.
- Durable, easy-care build: high-impact ABS with a removable centre core for quick cleaning.



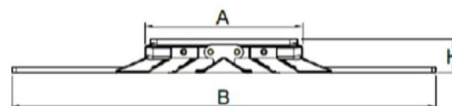
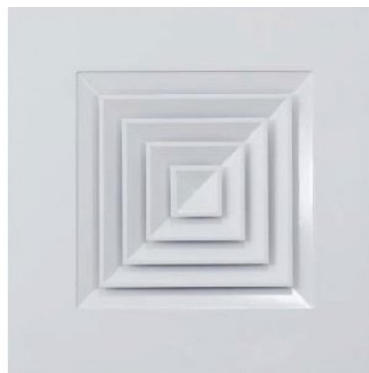
Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
231319	230 x 230	225 x 225	310 x 310	350 x 350
231324	300 x 300	295 x 295	380 x 380	420 x 420
231329	350 x 350	345 x 345	430 x 430	470 x 470

Options

Available with the Polyaire Plastic Neck Adaptors (with or without butterfly damper).

Plaque Ceiling Diffusers - PQCD

- Durable construction: steel frame with 6061T5 extruded aluminium core.
- Flush frame for surface or T-Bar lay-in ceilings; standard RAL 9010 white powder coat, with optional finishes to suit architectural interiors.
- 4-way directional airflow for strong, even room distribution.
- Removable core as standard for easy access and maintenance.



Item Code	Nominal Neck (mm)	Exact Neck (mm)	Face X x Y (mm)	Height (mm)
247800	150 x 150	145 x 145	595 x 595	51
247801	225 x 225	220 x 220	595 x 595	51
247802	300 x 300	295 x 295	595 x 595	51
247803	375 x 375	370 x 370	595 x 595	51

Options

Opposed Blade Damper variants.

Multi Directional Outlet - MDO-X

- Fixed or adjustable in one outlet, the MDO-X can be set and left fixed, or adjusted as needed thanks to its multi-directional design.
- Etched finish reduces glare and accepts paint with no prep; softer contemporary styling with wider flanges and a snap-in biscuit to reduce dislodgement during adjustment/cleaning.
- Flush, smooth ceiling profile, louvre blades remain completely flush even when fully open.
- Secure louvre holding force, maintains the set position even under strong airflow, ideal for fixed/adjustable applications.



Item Code	Nominal Neck (mm)	Face X x Y (mm)
231200	230 x 230	283 x 283
231201	300 x 300	353 x 353
231202	350 x 350	408 x 408
231203	400 x 400	456 x 456
231204	450 x 450	506 x 506
231205	525 x 350	581 x 406

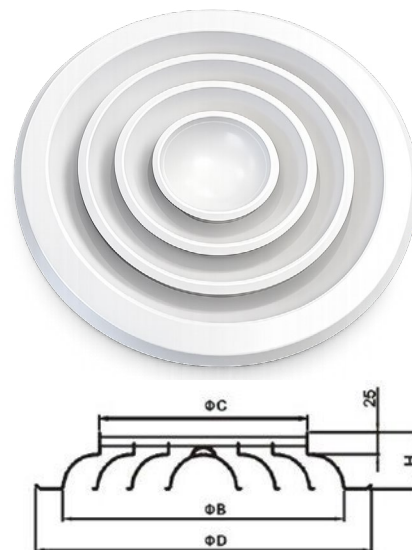
Options

Available with the Polyaire Plastic Neck Adaptors (with or without butterfly damper).

Round Ceiling Diffusers

Round Multi-Cone Diffuser - RCD

- Round diffuser alternative to square units, suitable for both supply and extract applications.
- Flexible mounting, install flush in ceilings or directly on exposed ductwork.
- High-volume, low-noise performance delivering smooth, even air distribution.
- All-aluminium construction with a spring-loaded removable core for easy access and maintenance.



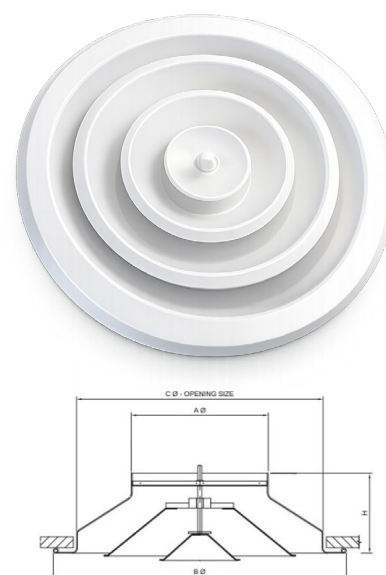
Item Code	Exact Neck C (mm)	Ceiling Opening B (mm)	Face D (mm)	Height H (mm)
247800	148	300	230	65
247801	198	350	280	65
247802	248	400	335	65
247803	299	450	380	65
247804	348	500	425	65
247805	398	560	495	65

Options

Standard colour is RAL 9010. Alternative colours are available so suit the interior requirements.

Round Multi-Cone Diffuser Adjustable - RCD-A

- Round diffuser alternative to conventional square diffusers for both supply and extract ceiling applications.
- All spun aluminium construction with a centre threaded boss in the neck to facilitate smooth core adjustment.
- Adjustable air pattern by screwing the core in/out of the outer frame.
- Removable core, fully unscrew to remove for access, cleaning, or maintenance.



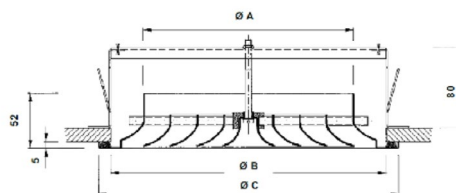
Item Code	Exact Neck A (mm)	Ceiling Opening C (mm)	Face B (mm)	Height H (mm)
220150	150	335	288	105
220200	200	423	370	118
220250	250	517	455	130
220300	300	640	570	146
220350	350	730	650	185

Options

Standard colour is RAL 9010. Alternative colours are available so suit the interior requirements.

Round Multi-Cone Diffuser Flush - BCD

- Multi-cone circular diffuser designed to sit in one plane, aligned with the ceiling for clean, even air distribution.
- Anodised aluminium construction in natural finish, with special finishes available on request.
- Available with mounting bridge options for fibre ducts or sheet ducts, supporting quick and easy ceiling installation.
- Optional flap volume control damper, operated through the diffuser face for simple airflow adjustment.



Locally manufactured to order, enquire for other sizes and finishes

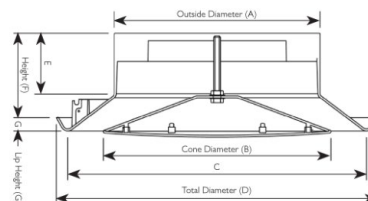
Item Code	Exact Neck A (mm)	Ceiling Opening B (mm)	Face C (mm)	Height H (mm)
MTO	159	213	247	132
MTO	199	264	287	152
MTO	249	315	337	177
MTO	314	366	402	209
MTO	354	417	442	229
MTO	399	462	487	252

Options

Anodised aluminium in its natural colour. Special finishes available upon request.
PM Mounting bridge for fibre ducts, PMC Mounting bridge for sheet ducts.

Round Plastic Diffuser - PCD

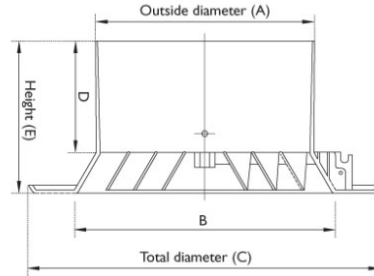
- Smooth, quiet concentric airflow across the ceiling for good coverage in cooling and most heating applications.
- Low-glare finish: standard off-white, with a lightly etched outer surface to reduce reflection and suit most décors.
- Fully adjustable airflow by rotating the centre cone, from total shut-off to fully open.
- Strong, rigid construction designed for long-term durability.



Item Code	Exact Neck A (mm)	Ceiling Opening C (mm)	Face D (mm)	Height F (mm)
235384	150	247	265	95
237100	200	294	315	95
237101	250	361	390	100
237102	300	411	441	103

Round Multi-Cone Jet Diffuser - PJD

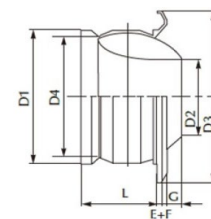
- High-throw 'jet' airflow engineered to drive air down to floor level for better mixing and circulation.
- Ideal for high ceilings and stairwells where a stronger, more direct airflow is needed.
- Adjustable performance from complete shut-off to fully open, with a flush-mount design.
- Durable, low-glare finish: easy-clean, non-reflective white surface; built for long-term strength and stability, available in 150mm & 200mm.



Item Code	Exact Neck A (mm)	Ceiling Opening B (mm)	Face C (mm)	Height E (mm)
235446	146	170	240	100
235447	195	225	290	120

Round Jet Nozzle Diffuser - JNS

- Long-throw performance: Designed for long-distance air throw, providing an aesthetic solution for moving large volumes of air.
- Fully adjustable direction: Airflow can be regulated in any direction by rotating the centre ball to suit the space.
- Aluminium nozzle with decorative ring, galvanised steel connection section, and a plastic mounting ring. Powder-coated surface finish, standard colour RAL 9010. Maximum working temperature: 90°F.



Item Code	Exact Neck D1 (mm)	Nozzle Opening D2 (mm)	Face D3 (mm)	Height L (mm)
210100	98	60	148	85
210125	123	64	170	80
210150	148	75	200	85
210160	158	85	210	98
210200	198	108	255	112
210250	248	136	301	143
210315	310	186	380	160
210400	396	230	467	182

Options

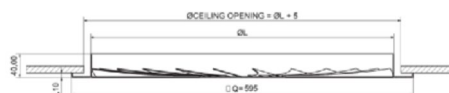
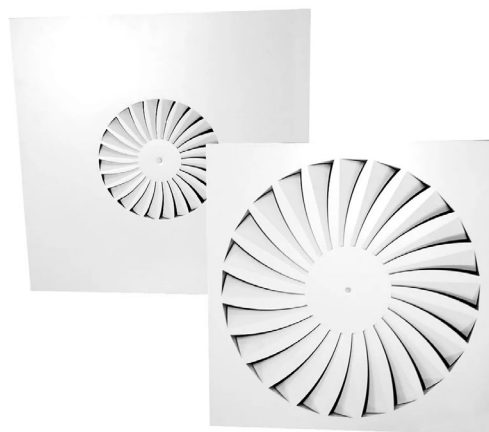
Standard colour - RAL9010

Can be powder coated to another RAL colour to suit requirements.

Fixed Blade Swirl Diffusers

Square Spiral Blade Swirl - PSB

- High-induction swirl airflow: fixed spiral blades generate rotational + axial/tangential/radial movement for rapid mixing, reducing drafts and hot/cold spots.
- Handles large air volumes quietly: lowers discharge velocity while maintaining airflow volume and reducing noise for consistent diffusion.
- Supply or return air capable: suitable for return applications due to low pressure drop across the grille.



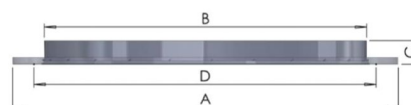
Item Code	Exact Neck L (mm)	Ceiling Opening (mm)	Face D (mm)	Colour
247094	254	260	595	RAL9010 & RAL9016
247095	336	340	595	RAL9010 & RAL9016
247096	440	445	595	RAL9010 & RAL9016
247097	530	535	595	RAL9010 & RAL9016

Options

Standard powder-coated galvanised steel (RAL 9010 or RAL 9016) with other colours/finishes available, including tegular options (8mm or 16mm drop) on request. Supplied with M5 screws and caps as standard.

Circular Spiral Blade Swirl - ODS

- Smooth, quiet concentric airflow across the ceiling for good coverage in cooling and most heating applications.
- Low-glare finish: standard off-white, with a lightly etched outer surface to reduce reflection and suit most décors.
- Fixed blades.
- Strong, rigid construction designed for long-term durability.



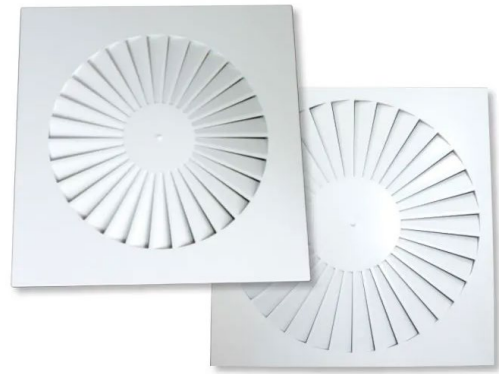
Item Code	Face A (mm)	Exact Neck B (mm)	Height C (mm)	Ceiling Opening D (mm)
247525	300	254	37	279
247535	400	347	37	375
247545	500	447	37	475
247554	600	540	37	565

Options

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements. Supplied with M5 screws and caps as standard.

Square Straight Blade Swirl - PSC

- High-induction swirl performance: fixed blades generate rotational + axial/tangential/radial movement for rapid mixing, reducing drafts and hot/cold spots.
- Quiet, high-volume handling: lowers discharge velocity while maintaining airflow volume, making it ideal for larger air quantities.
- Supply or return capable: suitable for return air applications thanks to low pressure drop across the grille.



Item Code	Nominal Size (mm)	Face A (mm)	Exact Neck B (mm)	Ceiling Opening (mm)
247101	535	595 x 595	535	540

Locally manufactured to order, enquire for other sizes and finishes

Item Code	Nominal Size (mm)	Face A (mm)	Neck B (mm)	Height C (mm)
SSW-24-L Lay-In Ceiling & SSW-24-M Clip in Type				
MTO	200	595 x 595	197	37
MTO	300	595 x 595	297	37
MTO	350	595 x 595	347	37
MTO	450	595 x 595	447	37
MTO	500	595 x 595	500	37
MTO	535	595 x 595	535	37
T15 - Tegular 584 x 584				
MTO	200	584 x 584	197	37
MTO	300	584 x 584	297	37
MTO	350	584 x 584	347	37
MTO	450	584 x 584	447	37
MTO	500	584 x 584	500	37
MTO	535	584 x 584	535	37
T24 - Tegular 574 x 574				
MTO	200	574 x 574	197	37
MTO	300	574 x 574	297	37
MTO	350	574 x 574	347	37
MTO	450	574 x 574	447	37
MTO	500	574 x 574	500	37
MTO	535	574 x 574	535	37

Options

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements.

Supplied with M5 screws and caps as standard.

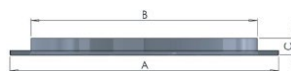
Edge detail is available in the following options:

L - Lay In Grid

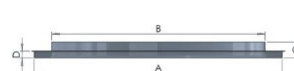
T15 - Tegular 584 x 584

T24 - Tegular 574 x 574

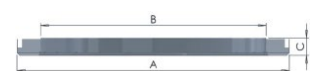
M - Clip-In Metal Ceiling



SSW-24-L



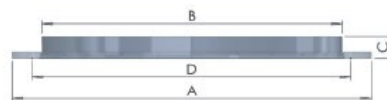
SSW-24-T



SSW-24-M

Circular Straight Blade Swirl - SSW-C

- Ceiling-mounted design suitable for commercial and industrial applications.
- Manufactured to suit most ceiling tile modules, enabling easy integration into common grid layouts.
- Straight vane swirl pattern promotes high induction by rapidly entraining room air.
- Fast velocity and temperature decay improves comfort by quickly reducing draughts and temperature differentials.



SSW-24-C

**Locally manufactured to order,
enquire for other sizes and finishes**

Item Code	Nominal Size (mm)	Face A (mm)	Neck B (mm)	Height C (mm)
MTO	200	300 Dia	197	37
MTO	300	400 Dia	297	37
MTO	350	500 Dia	347	37
MTO	450	600 Dia	447	37
MTO	500	600 Dia	500	37
MTO	535	600 Dia	535	37

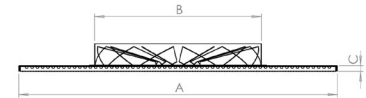
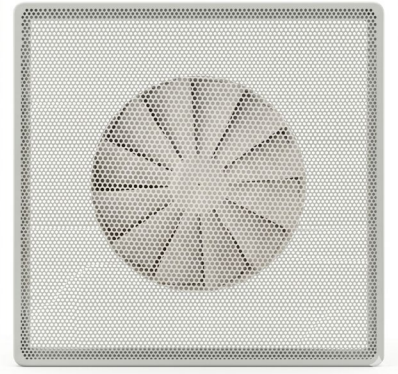
Options

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements. Supplied with M5 screws and caps as standard.

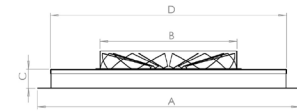
Perforated Face Swirl Diffuser

Perforated Square Straight Blade Swirl - PSW-S

- Handles large temperature differentials, making it ideal for FCU, VAV and VRF applications.
- High-induction rotating airflow pattern for effective mixing and even distribution of warm or cool air.
- Galvanised steel construction with standard RAL 9010 finish.
- Non-stock/made-to-order product.



Lay-in Ceiling Type



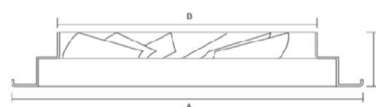
Hinged Face Type

**Locally manufactured to order,
enquire for other sizes and finishes**

Item Code	Exact Neck B (mm)	Face A (mm)	Height C (mm)
Perforated Face Swirl Diffuser (Fixed c/w frame)			
248108 (MTO)	157	595 x 595	10
MTO	197	595 x 595	10
248109 (MTO)	247	595 x 595	10
MTO	297	595 x 595	10
248110 (MTO)	312	595 x 595	10
248111 (MTO)	397	595 x 595	10
248112 (MTO)	447	595 x 595	10
Perforated Face Swirl Diffuser (Fixed c/w No frame)			
248108 NF (MTO)	157	595 x 595	10
MTO	197	595 x 595	10
248109 NF (MTO)	247	595 x 595	10
MTO	297	595 x 595	10
248110 NF (MTO)	312	595 x 595	10
248111 NF (MTO)	397	595 x 595	10
248112 NF (MTO)	447	595 x 595	10
Perforated Face Swirl Diffuser (Hinged)			
248113 (MTO)	157	595 x 595	40
MTO	197	595 x 595	40
248114 (MTO)	247	595 x 595	40
MTO	297	595 x 595	40
248115 (MTO)	312	595 x 595	40
248116 (MTO)	397	595 x 595	40
248117 (MTO)	447	595 x 595	105

Perforated Circular Straight Blade Swirl - PSW-R

- High-induction swirl performance: fixed blades generate rotational + axial/tangential/radial movement for rapid mixing, reducing drafts and hot/cold spots.
- Quiet, high-volume handling: lowers discharge velocity while maintaining airflow volume, making it ideal for larger air quantities.
- Supply or return capable: suitable for return air applications thanks to low pressure drop across the grille.
- Ceiling-ready & finish options: 595mm square face for surface mount or T-Bar lay-in.



**Locally manufactured to order,
enquire for other sizes and finishes**

Item Code	Exact Neck B (mm)	Face A (mm)	Height C (mm)
MTO	157	270	90
MTO	197	330	90
MTO	247	380	90
MTO	297	440	90
MTO	312	440	90
MTO	397	600	90

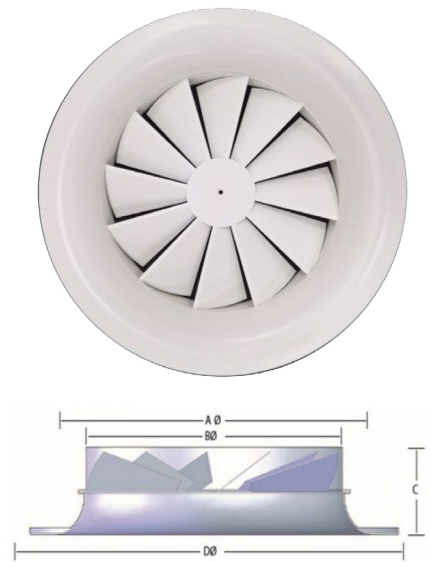
Options

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements.

Curved Frame Swirl Diffuser

Fixed Blade Curved Frame Swirl - RSW

- Aerodynamically efficient swirl diffuser, an attractive alternative to conventional circular ceiling terminals.
- High-induction horizontal radial airflow delivering a turbulent jet, ideal for high heating/cooling differentials.
- Zintec sheet construction with standard RAL 9010 finish.
- Size availability: 450mm & 630mm dia are non-stock / made-to-order.



Item Code	Exact Neck B (mm)	Ceiling Opening A (mm)	Face D (mm)	Height C (mm)
247555	157	215	245	70
247556	197	265	300	70
247557	247	320	350	75
247558	312	415	450	75
247559	352	480	515	90
247560	397	525	560	95
247561 (MTO)	447	565	600	95
247562 (MTO)	627	765	800	95

Options

Available in Mill Finish and other RAL colours.
247561 & 247562 are made-to-order.

Adjustable Blade Curved Frame Swirl - RSW-TR

- RSW-TR is a rotation diffuser particularly suitable for rooms with a high ceiling.
- The diffuser is equipped with adjustable blades, so the supply air pattern can be changed from vertical to horizontal.
- The blade settings can be adjusted manually, or the function can be automated using various types of motor. RSW with manual blade adjustment is supplied as standard with a blade setting of 30°.



Locally manufactured to order, enquire for other sizes and finishes

Item Code	Ød Size (mm)	ØD (mm)	H (mm)	L (mm)	ØU (mm)
MTO	250	360	240	143	285
MTO	315	460	267	168	365
MTO	400	560	292	178	450
MTO	500	670	341	226	570
MTO	630	870	391	273	740

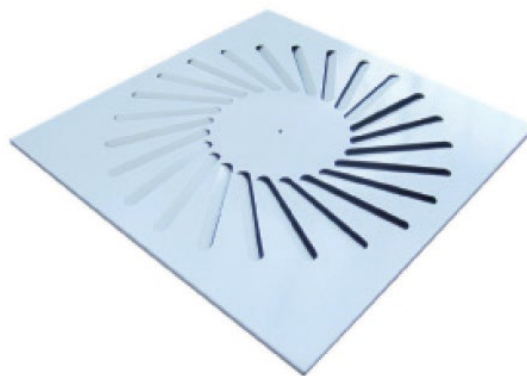
Options

Can be supplied with an electric motor.
Can be supplied with a thermal actuator.
Material: Aluminium & steel.
Standard finish: Powder-coated.
Standard colour: RAL 9010 Gloss 30.

Slot Swirl Diffuser

Slot Swirl Diffuser - DSW

- Suitable for ceiling mounting and can be used for both supply and extract air.
- Excellent performance with the rapid decay of supply air velocities and temperature differentials.



Locally manufactured to order, enquire for other sizes and finishes

Item Code	Type	No of Blades	Size (mm)	RAL Colour
MTO	DSW	8	300 x 300	RAL 9010
MTO	DSW	16	400 x 400	RAL 9010
MTO	DSW	24	500 x 500	RAL 9010
MTO	DSW	24	595 x 595	RAL 9010

Options

Edge detail is available in the following options:

L - Lay In Grid

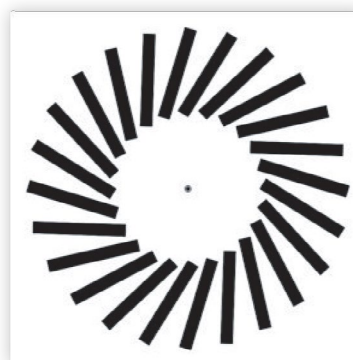
T15 - Tegular 584 x 584

T24 - Tegular 574 x 574

M - Clip-In Metal Ceiling

Adjustable Slot Swirl Diffuser - ADSW

- Designed for cooled air with large temperature differentials, ideal for FCU, VAV and VRF applications.
- Manually adjustable slot blades let you vary the discharge direction and air pattern.
- High-induction rotating airflow suitable for supplying both warm and cool air effectively.
- Galvanised steel construction with finish available in RAL 9010 only.

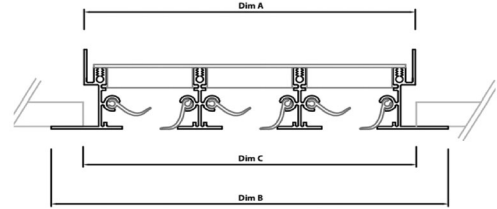


Item Code	Face B (mm)	Circular Diameter (mm)	Height H (mm)	Blades
247102	595 x 595	538	10	24
247103	595 x 595	538	10	36
247104	595 x 595	538	10	48

Linear Air Distribution

Linear Slot Diffuser - LSD

- Flexible installation: ideal for ceiling or high-sidewall supply; install as individual set lengths or a continuous line, suited to most ceiling types.
- Premium aluminium construction: extruded aluminium, recommended max 2.0 metres per section.
- Configurable modules: 20mm slot modules from 1 to 8 slots, available as Fixed Core (LSD-FC) or Removable Core (LSD-RC).



**Locally manufactured to order,
enquire for other sizes and finishes**

No of Slots (20mm Slot)	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)
1	60	89	70
2	105	134	115
3	150	179	160
4	195	224	205
5	240	269	250
6	285	314	295
7	330	359	340
8	395	404	385

Options

Non-standard size slot and neck widths are available upon request.

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements.

Plenum Boxes available.

Plaster-in type also available.

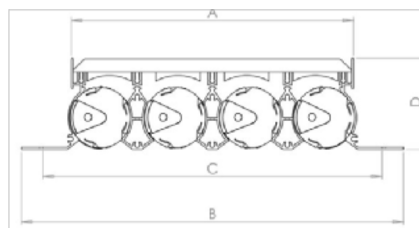
Plaster-In Slot Diffusers

- Fully manufactured from aluminium extrusion. Designed for either ceiling or wall mounting.
- Manufactured to any length to suit specific site requirements.
- All individual slots are fully adjustable.
- Blades can be finished in Black (B-Black) or to match the face colour (AF-As Face).



Micro-Jet Slot Diffuser - BSD-HI

- All-aluminium extrusion construction for a rigid, durable diffuser with a clean architectural finish.
- Ceiling or wall mounting flexibility.
- High-induction micro-jet airflow created by the individual barrel arrangement for fast air mixing.



Locally manufactured to order, enquire for other sizes and finishes

No of Slots	Dimension A (mm)	Dimension B (mm)	Dimension C (mm)	Dimension D (mm)
BSD-HI-16				
1	40.5	74.5	50.5	39
2	72	106	82	39
3	104	138	114	39
4	136	170	146	39
BSD-HI-18				
5	47.6	114.6	57.6	59
6	86	153	96	59
7	135	202	145	59
8	184	251	194	59

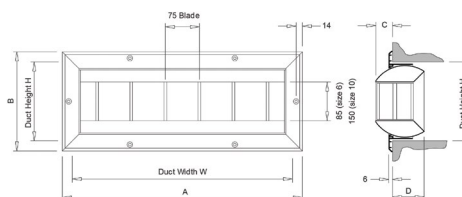
Options

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements.

Drum Jet Diffuser

Drum Jet Diffuser - BDL

- Suitable for either duct or wall mounting.
- Generally used where high amounts of air are requiring long air jet throws.
- The drum and guide vanes are adjustable to give control over the air pattern for both heating and cooling.

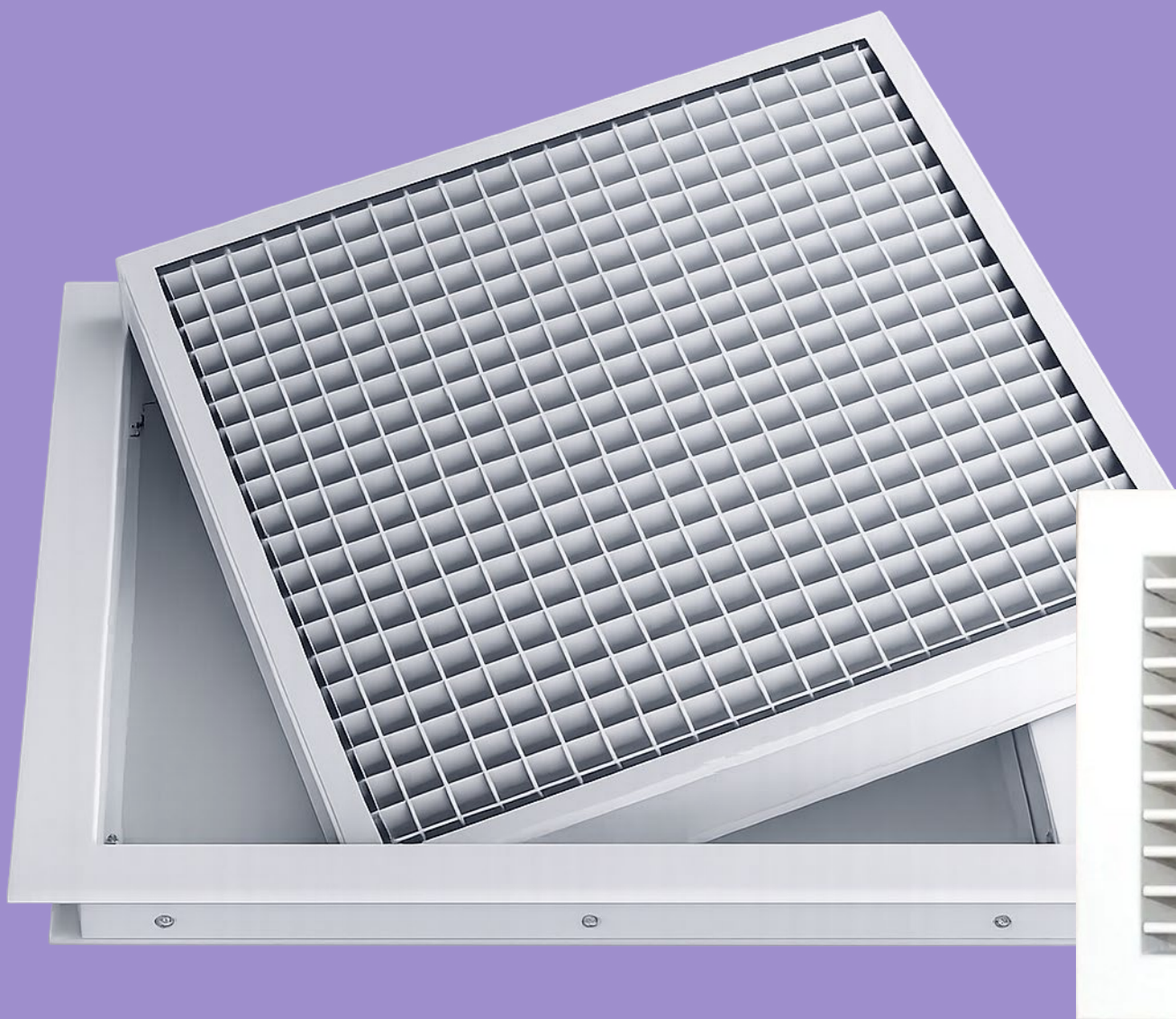


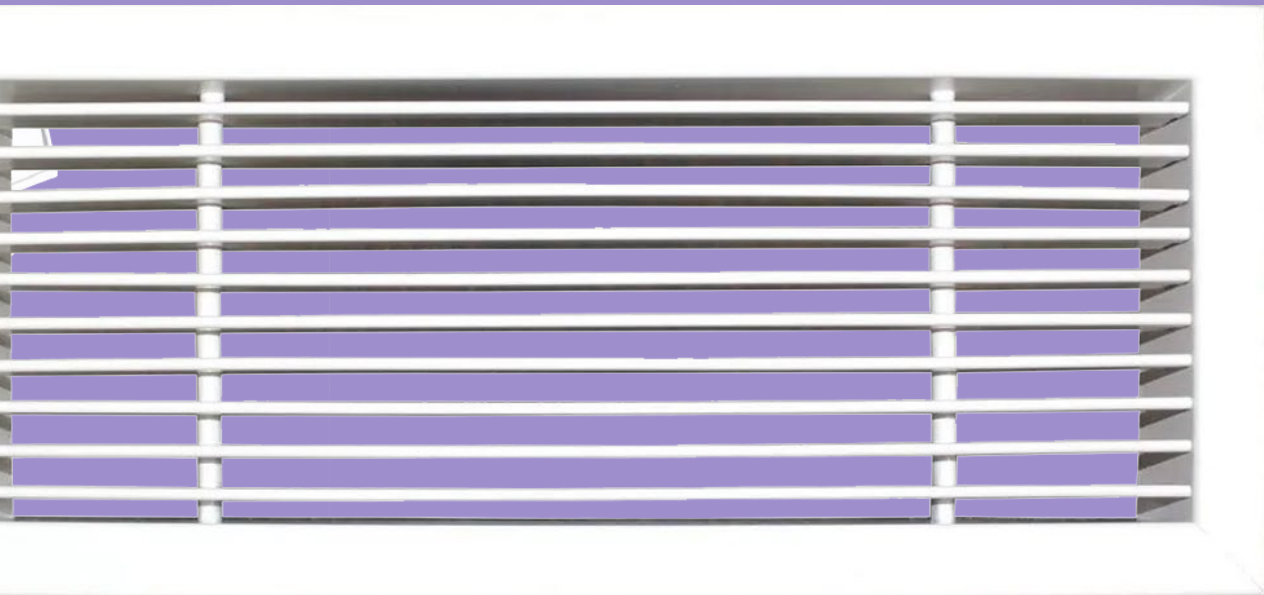
Locally manufactured to order, enquire for other sizes and finishes

Item Code	Size	A (mm)	B (mm)	W (mm)	H (mm)	C (mm)	D (mm)
MTO	906	300	217	261	170	36	87
MTO	1206	376	217	337	170	36	87
MTO	1806	529	217	490	170	36	87
MTO	2406	681	217	642	170	36	87
MTO	2010	579	319	540	271	63	138
MTO	2510	706	319	667	271	63	138
MTO	3010	833	319	794	271	63	138
MTO	3510	960	319	921	271	63	138

Grilles

The process of distributing heated or cooled air throughout any building should be a seamless process with the right grille or diffuser to ensure optimum airflow performance.

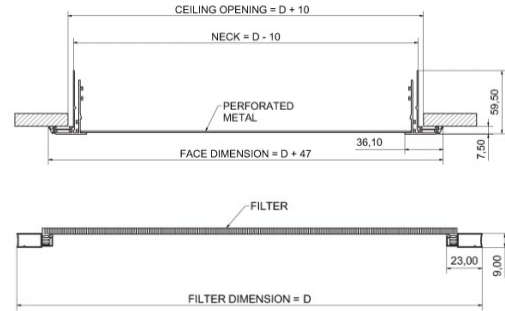




Perforated Grilles

Perforated Diffuser - PD & PD-HF

- The perforated face blends in very well with the acoustic tiles of a typical suspended ceiling and can be used for supply, return, relief and exhaust air applications.
- Easy servicing: Hinged designed for quick, simple access and filter changes in any situation.
- Applications: Designed for ceiling return air and exhaust air applications.



Locally manufactured to order, enquire for other sizes and finishes

Perforated Grille - PD & PD-HF

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1150	1200
100	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-	-
450	-	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-	-
500	-	-	-	-	-	-	-	-	○	-	-	-	-	-	-	-	-	-
550	-	-	-	-	-	-	-	-	-	■	-	-	-	-	-	-	-	-
600	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

Item Code	Description	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
248101	PD	550 x 550	545 x 545	560 x 560	595 x 595
248102	PD-HF	550 x 550	540 x 540	560 x 560	595 x 595

Options

Also available in stock in RAL9005 (Black) - Part No. 248101/RAL9005.

Removable or hinged core option is available.

Other RAL colours available.

Standard galvanised steel powder coated RAL 9010, with other finishes available to suit architectural requirements.

Filters are available upon request (Part No. 247207F).

Linear Bar Grilles



Linear Bar Grille - BG

- Architectural finish: discreet linear look to suit modern interiors.
- Premium aluminium construction: extruded aluminium, recommended max 2.0 metres per section.
- Airflow control: extruded aluminium blades (slimline or heavy duty) with 0° / 15° / 45° deflection options.
- Core options (fixed / removable / hinged)

Locally manufactured to order, enquire for other sizes and finishes

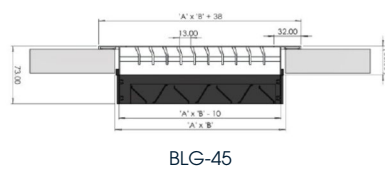
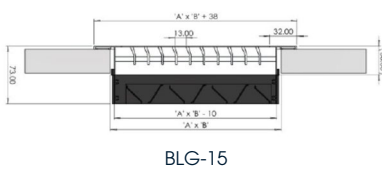
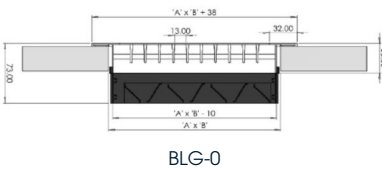
Linear Bar Grilles

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
250	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
300	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
350	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
400	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
450	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
500	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
550	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
700	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
800	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
900	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1000	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

Options

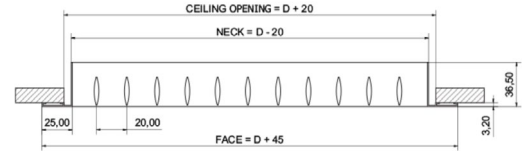
Can be ordered with OBD.
RAL9010 standard with other finishes available.
0° / 15° / 45° deflection options.



Deflection Grilles

Single Deflection Grille - WSS

- Sidewall air distribution: Universal Outlets / Double Deflection Registers are designed primarily for sidewall applications.
- Extruded aluminium + custom options: extruded aluminium blades in a fixed or removable core.
- Front vanes (horizontal): directs primary air upward above occupants for better mixing before it reaches the occupied zone.



MODEL WSS

Locally manufactured to order, enquire for other sizes and finishes

Deflection Grilles - Single (WSS)

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	-	■	○	○	○	○	○	○	○	○	○	○	○	○
200	-	-	■	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	■	○	○	○	○	○	○	○	○	○	○
300	-	-	-	-	■	○	○	○	○	○	○	○	○	○
350	-	-	-	-	-	■	○	○	○	○	○	○	○	○
400	-	-	-	-	-	-	■	○	○	○	○	○	○	○
450	-	-	-	-	-	-	-	○	○	○	○	○	○	○
500	-	-	-	-	-	-	-	-	○	○	○	○	○	○
550	-	-	-	-	-	-	-	-	-	○	○	○	○	○
600	-	-	-	-	-	-	-	-	-	-	○	○	○	○
700	-	-	-	-	-	-	-	-	-	-	-	○	○	○
800	-	-	-	-	-	-	-	-	-	-	-	-	○	○
900	-	-	-	-	-	-	-	-	-	-	-	-	-	○

■ Standard Size ○ Made to Order

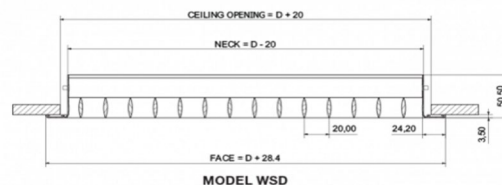
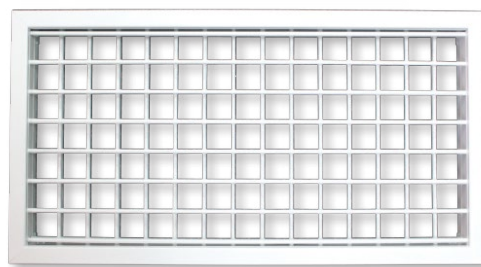
Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
Single Deflection - Without OBD				
246150S	150 x 150	145 x 145	170 x 170	195 x 195
246200S	200 x 200	195 x 195	220 x 220	245 x 245
246250S	250 x 250	245 x 245	270 x 270	295 x 295
246300S	300 x 300	295 x 295	320 x 320	345 x 345
246350S	350 x 350	345 x 345	370 x 370	395 x 395
246400S	400 x 400	395 x 395	420 x 420	445 x 445

Options

Can be ordered with OBD.

Double Deflection Grille - WSD

- Sidewall air distribution: Universal Outlets / Double Deflection Registers are designed primarily for sidewall applications.
- Extruded aluminium + custom options: extruded aluminium blades in a fixed or removable core.
- Front vanes (horizontal): directs primary air upward above occupants for better mixing before it reaches the occupied zone.



Locally manufactured to order, enquire for other sizes and finishes

Deflection Grilles - Double (WSD)

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	-	■	○	○	○	○	○	○	○	○	○	○	○	○
200	-	-	■	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	■	○	○	○	○	○	○	○	○	○	○
300	-	-	-	-	■	○	○	○	○	○	○	○	○	○
350	-	-	-	-	-	■	○	○	○	○	○	○	○	○
400	-	-	-	-	-	-	■	○	○	○	○	○	○	○
450	-	-	-	-	-	-	-	■	○	○	○	○	○	○
500	-	-	-	-	-	-	-	-	○	○	○	○	○	○
550	-	-	-	-	-	-	-	-	-	■	○	○	○	○
600	-	-	-	-	-	-	-	-	-	-	○	○	○	○
700	-	-	-	-	-	-	-	-	-	-	-	○	○	○
800	-	-	-	-	-	-	-	-	-	-	-	-	○	○
900	-	-	-	-	-	-	-	-	-	-	-	-	-	○

■ Standard Size ○ Made to Order

Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
Double Deflection Grille - Without OBD				
246150	150 x 150	145 x 145	170 x 170	195 x 195
246200	200 x 200	195 x 195	220 x 220	245 x 245
246250	250 x 250	245 x 245	270 x 270	295 x 295
246300	300 x 300	295 x 295	320 x 320	345 x 345
246350	350 x 350	345 x 345	370 x 370	395 x 395
246400	400 x 400	395 x 395	420 x 420	445 x 445
246450	450 x 450	445 x 445	470 x 470	495 x 495
246550	550 x 550	545 x 545	570 x 570	595 x 595

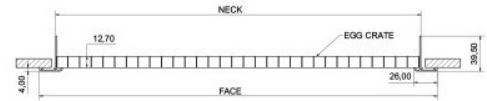
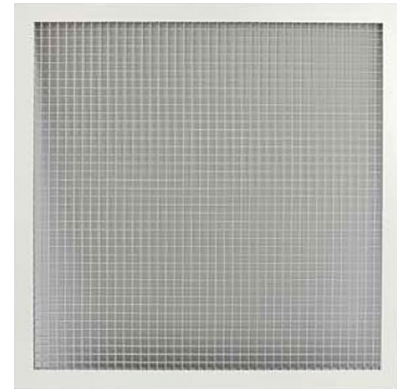
Options

Can be ordered with OBD.

Egg Crate Grilles

Egg Crate Grille - EC-FC

- Construction: Extruded aluminium frame retaining a square pattern aluminium lattice (eggcrate) core; standard 26mm frame flange.
- Finish options: Powder-coated white as standard, with alternative finishes available to suit architectural/interior requirements.
- Applications: Designed for ceiling return air and exhaust air applications.



Locally manufactured to order, enquire for other sizes and finishes

Egg Crate Grilles - EC-FC

H \ L	100	150	200	225	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1150	1200	
100	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
225	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
250	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
300	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
350	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○
400	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○
450	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○
500	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○
550	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○
600	○	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○
700	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
800	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
900	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1000	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1150	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

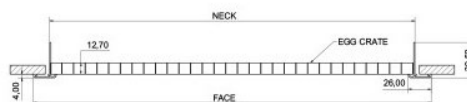
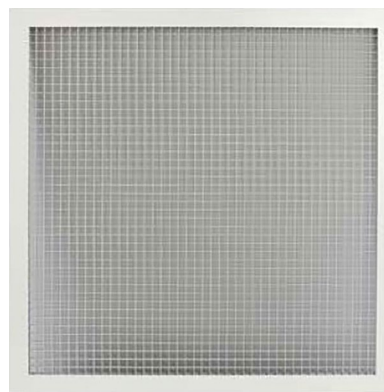
Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
248592	100 x 100	94 x 94	100 x 100	132 x 132
248593	150 x 150	145 x 145	150 x 150	181 x 181
248595	200 x 200	195 x 195	200 x 200	232 x 232
248595A	225 x 225	220 x 220	225 x 225	270 x 270
248596	250 x 250	244 x 244	250 x 250	280 x 280
248597	300 x 300	294 x 294	300 x 300	333 x 333
248598	350 x 350	345 x 345	350 x 350	382 x 382
248603	400 x 400	393 x 393	400 x 400	432 x 432
248604	450 x 450	445 x 445	450 x 450	482 x 482
248605	500 x 500	495 x 495	500 x 500	533 x 533
248610	550 x 550	542 x 542	595 x 595	595 x 595
248619	1150 x 550	1145 x 545	1195 x 595	1195 x 595

Options

EC-FC stocked in RAL9010 & RAL9016. Other sizes and colours can also be manufactured to your requirements.

Egg Crate Grille with OBD - EC-FC-OBD

- Construction: Extruded aluminium frame retaining a square-pattern aluminium lattice (eggcrate) core; standard 26mm frame flange.
- Finish options: Powder-coated white as standard, with alternative finishes available to suit architectural/interior requirements.
- Applications: Designed for ceiling return air and exhaust air applications.



Locally manufactured to order, enquire for other sizes and finishes

Egg Crate Grilles - EC-FC OBD

H \ L	100	150	200	225	250	300	350	400	450	500	550	600	700	800	900
100	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○
200	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○
300	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○
350	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○
400	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○
450	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○
500	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○
550	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○
600	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○
700	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○
800	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○
900	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○

■ Standard Size ○ Made to Order

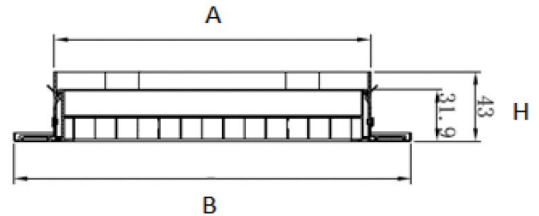
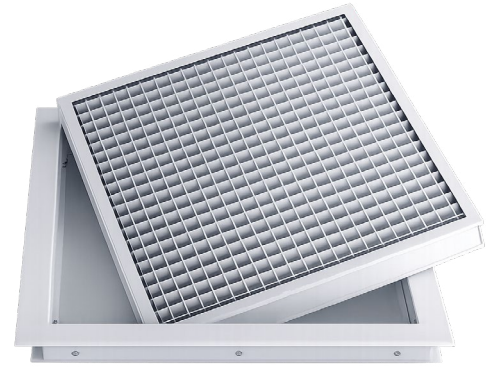
Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
248592/1E	100 x 100	94 x 94	100 x 100	132 x 132
248593/6	150 x 150	145 x 145	150 x 150	181 x 181
248595/6E	200 x 200	195 x 195	200 x 200	232 x 232
248595A/7	225 x 225	220 x 220	225 x 225	270 x 270
248596/7E	250 x 250	244 x 244	250 x 250	280 x 280
248597/8	300 x 300	294 x 294	300 x 300	333 x 333
248598/9E	350 x 350	345 x 345	350 x 350	382 x 382
248603/10E	400 x 400	393 x 393	400 x 400	432 x 432
248604/10	450 x 450	445 x 445	450 x 450	482 x 482
248605/11E	500 x 500	495 x 495	500 x 500	533 x 533
248610/12E	550 x 550	542 x 542	595 x 595	595 x 595
248619 F/C + OBD	1150 x 550	1145 x 545	1195 x 595	1195 x 595

Options

EC-FC stocked in RAL9010 & RAL9016. Other sizes and colours can also be manufactured to your requirements.

Egg Crate Grille Removable Core - REM-C

- Construction: Extruded aluminium frame retaining a square-pattern aluminium lattice (eggcrate) core; standard 26mm frame flange.
- Finish options: Powder-coated white as standard, with alternative finishes available to suit architectural/interior requirements.
- Applications: Designed for ceiling return air and exhaust air applications.



Locally manufactured to order, enquire for other sizes and finishes

Egg Crate Grilles - REM-C

H \ L	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1150	1200
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
250	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
300	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○
350	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○
400	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○
450	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○
500	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
550	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○
600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
700	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
800	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
900	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1000	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1150	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

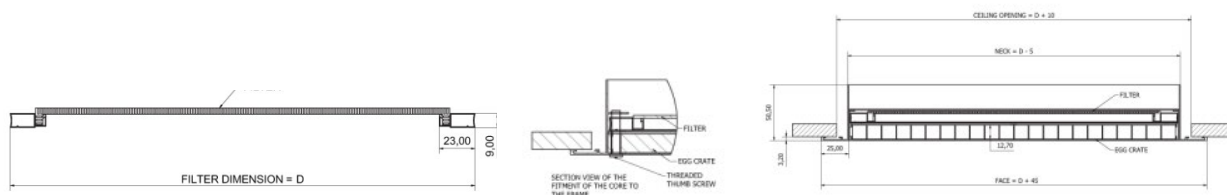
Item Code	Nominal Neck (mm)	Exact Neck A (mm)	Face B (mm)	Height H (mm)
248593 REM-C	150 × 150	145 × 145	194 × 194	43
248595 REM-C	200 × 200	195 × 195	244 × 244	43
248596 REM-C	250 × 250	245 × 245	294 × 294	43
248597 REM-C	300 × 300	295 × 295	344 × 344	43
248598 REM-C	350 × 350	345 × 345	394 × 394	43
248603 REM-C	400 × 400	395 × 395	445 × 445	43
248604 REM-C	450 × 450	445 × 445	495 × 495	43
248610 REM-C	550 × 550	545 × 545	595 × 595	43

Options

REM-C stocked in RAL9010. Other sizes and colours can also be manufactured to your requirements.

Egg Crate Return Air Grille - EC-HF

- All-in-one solution: Return air eggcrate grille with integrated filter for complete, simple serviceability in all situations.
- Proven filter media: Developed through extensive research by a leading global filtration authority, with UL (American Underwriters Laboratories) approval, and black media for easy dirt build-up inspection before replacement.
- Easy install + fast maintenance: Unique design allows quick, hassle-free disposable filter pad changes.



Item Code	Nominal Neck (mm)	Exact Neck (mm)	Ceiling Opening (mm)	Face X x Y (mm)
247207	550 x 550	542 x 542	595 x 595	595 x 595

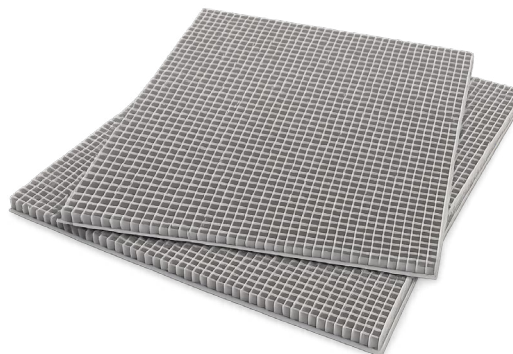
Options

Filters are available upon request (Part No. 247207F).

Also available hinged without filter (Part No. 247207-No Filter).

Egg Crate Sheet

- Aluminium square pattern lattice core.
- Material: Aluminium 1060 H24.
- 10 Sheets of Eggcrate Core in a box.



Item Code	Nominal Neck (mm)	Grid Size (mm)	Thickness (mm)	Packaged (mm)
997002	1200 x 1200	12.7 x 12.7 x 12.7	0.47	10 Sheets
997002-45	1200 x 1200 - 45 degree	12.7 x 12.7 x 12.7	0.47	10 Sheets

Options

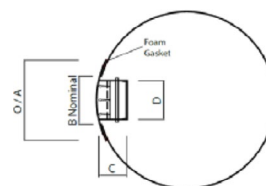
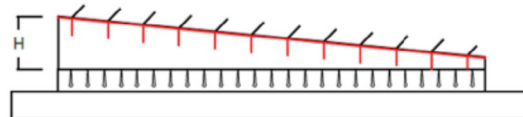
45-Degree is painted RAL9010.

Other sizes available - MTO.

Duct Mounted Grilles

Spiral Duct Grille - SDG

- Direct-to-duct mounting: Designed to sit straight onto exposed circular ductwork, eliminating the need for a branch or saddle and reducing install cost/time.
- Strong, accurate construction.
- Adjustable air control options: Available with single-bank horizontal adjustable blades, or double-bank blades with horizontal adjustables at the front and vertical adjustables behind for finer throw control.



Locally manufactured to order, enquire for other sizes and finishes

Nominal Opening A (mm)	Nominal Opening B (mm)	Deflection C (Single/ Double mm)	Neck D (mm)	Height H (mm)
225	85	34 / 72	65	40
225	125	34 / 72	105	40
225	175	34 / 72	155	40
225	225	34 / 72	205	40
325	85	34 / 72	65	50
325	125	34 / 72	105	50
325	175	34 / 72	155	50
325	225	34 / 72	205	50
425	85	34 / 72	65	60
425	125	34 / 72	105	60
425	175	34 / 72	155	60
425	225	34 / 72	205	60
525	85	34 / 72	65	70
525	125	34 / 72	105	70
525	175	34 / 72	155	70
525	225	34 / 72	205	70
625	85	34 / 72	65	80
625	125	34 / 72	105	80
625	175	34 / 72	155	80
625	225	34 / 72	205	80
825	85	34 / 72	65	80
825	125	34 / 72	105	80
825	175	34 / 72	155	80
825	225	34 / 72	205	80
1225	85	34 / 72	65	80
1225	125	34 / 72	105	80
1225	175	34 / 72	155	80
1225	225	34 / 72	205	80

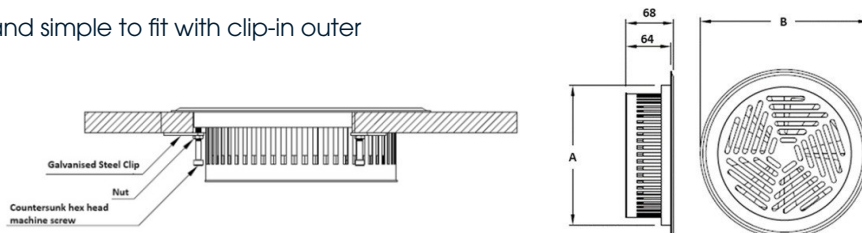
Options

Available in either Single or Double Deflection.

Floor Swirl

Floor Swirl - AFSD-A

- Ideal for raised floors: Floor Swirl Diffusers suit raised flooring and open plan areas, delivering a swirling throw for effective air mixing.
- Strong construction: cast aluminium outer ring/inner core with a 6.4 mm (1/4") thick core suitable for light foot traffic. Standard aluminium finish.
- Sizes + easy install: available in 150 mm & 200 mm diameters and designed to be quick and simple to fit with clip-in outer ring fixing.



Item Code	Size	Neck A (mm)	Face B (mm)	Height (mm)
247150	AFSD-A 150	150	190	68
247200	AFSD-A 200	200	240	68

Options

Standard aluminium finish with powder coat to any RAL/BS colour available.

External Air Louvres

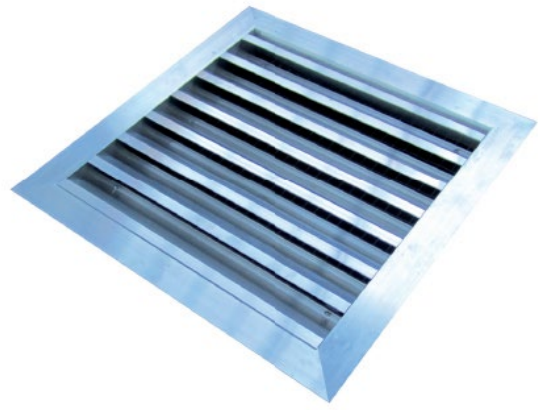
Polyaire's Outside Air Louvres are designed to provide weather protection of outside air or discharge openings to allow free passage of air. These external louvres may also be used for natural ventilation.



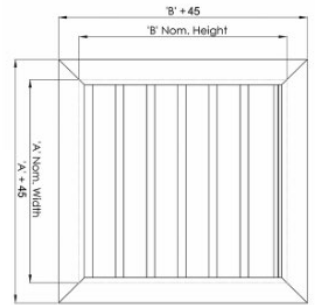


Outside Air Louvres

Square Outside Air Louvre - OAL-S



- Outside Air Louvres (OAL) protect outdoor air intake/discharge openings while allowing free passage of air; also suitable for natural ventilation.
- Small & large section options: Polyaire offers small section (OAL-S) and large section louvres—OAL-S is ideal for smaller sizes and lower air quantities.
- Extruded aluminium construction: all extruded aluminium with a 32 mm standard flange for straightforward installation.
- Available with either Bird or Insect Mesh.



Locally manufactured to order, enquire for other sizes and finishes

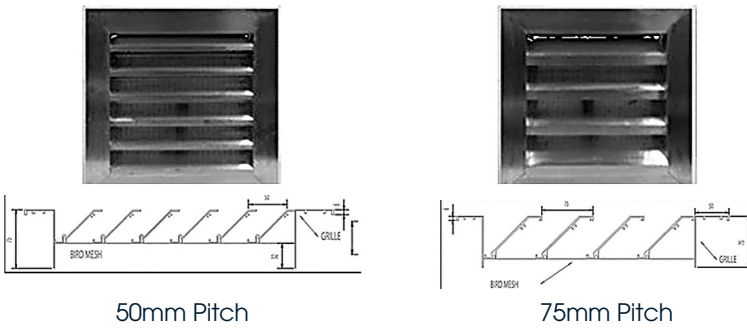
L \ H	150	200	225	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000
150	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
225	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
250	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
300	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
350	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
400	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
450	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
500	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
550	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
600	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
700	○	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○	○	○
800	○	○	○	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○	○	○
900	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	■	○	○	○	○	○	○	○	○	○
1000	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1200	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1300	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1400	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1500	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1700	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1800	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
1900	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
2000	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

Item Code (Bird Mesh)	Item Code (Insect Mesh)	Nominal Neck (mm)	Exact Neck (mm)	Face X x Y (mm)
243399	243399+IM	150 x 150	145 x 145	204 x 204
244000	244000+IM	200 x 200	195 x 195	254 x 254
244000/A	244000/A+IM	225 x 225	220 x 220	279 x 279
244001	244001+IM	250 x 250	245 x 245	304 x 304
244002	244002+IM	300 x 300	295 x 295	354 x 354
244003	244003+IM	350 x 350	345 x 345	404 x 404
244004	244004+IM	400 x 400	395 x 395	454 x 454
244005	244005+IM	450 x 450	445 x 445	504 x 504
244244	244244+IM	500 x 500	495 x 495	554 x 554
244245	244245+IM	550 x 550	545 x 545	604 x 604
244247	244247+IM	600 x 600	595 x 595	654 x 654

Options

Standard finish natural anodised, with powder coat/other finishes available.
 Offered in stock sizes or manufactured to order across a wide range.
 38mm pitch size as standard, also available in 50mm and 75mm as optional.



Circular Outside Air Louvre - OAL-C

- Outside Air Louvres (OAL) protect outdoor air intake/discharge openings while allowing free passage of air; also suitable for natural ventilation.
- OAL-S is ideal for smaller sizes and lower air quantities.
- Extruded aluminium construction.
- 12 mm x 12 mm bird screen fitted as standard.
 Standard finish natural anodised.



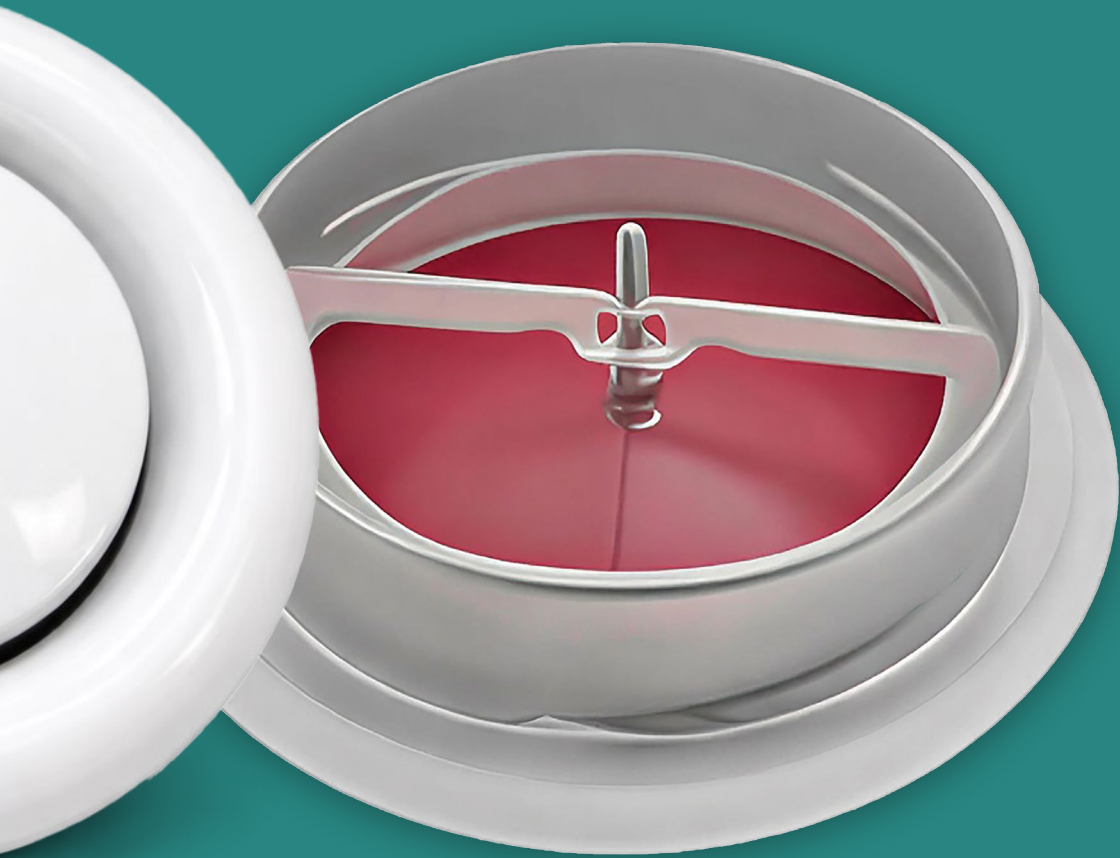
Item Code	Size (mm)	Spigot Size (mm)	Flange Size (mm)
244301	100	150 x 150	145 x 145
244302	125	200 x 200	195 x 195
244303	150	225 x 225	220 x 220
244304	160	250 x 250	245 x 245
244305	200	300 x 300	295 x 295
244306	250	350 x 350	345 x 345
244308	315	400 x 400	395 x 395
244309	400	450 x 450	445 x 445

Air Valves

Polyaire's range of air valves provides a professional solution for precise airflow management, encompassing supply, extract, and fire-rated options. These valves are designed for easy adjustment to ensure balanced air distribution while maintaining a clean, unobtrusive aesthetic.

Engineered to meet strict safety and performance standards, our fire-rated valves offer critical protection, making this range a reliable choice for any modern ventilation system.

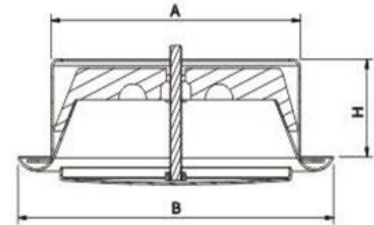




Air Valves

Supply Air Valve - AV-S

- Steel air supply valves for wall or ceiling installation, suitable for air supply and exhaust inside buildings.
- Pressed steel valve/grille with an adjustable core, with galvanised steel mounting components.
- Adjustable core for simple airflow regulation, supplied with a 42 mm mounting frame.
- Mounting & finish: Fixes directly into the mounting frame. Standard colours RAL 9010 and RAL 9016.



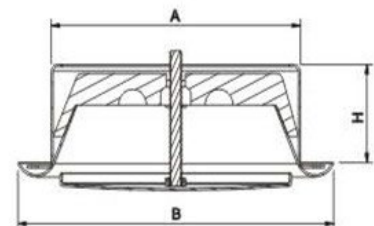
Item Code	Size (mm)	Neck A (mm)	Face B (mm)	Height H (mm)
237210	100mm	98mm	150mm	42mm
237212	125mm	123mm	175mm	42mm
237215	150mm	148mm	200mm	42mm
237216	160mm	159mm	210mm	42mm
237220	200mm	198mm	250mm	42mm

Options

Standard colours RAL 9010 and RAL 9016; other RAL colours available on request.

Extract Air Valve - AV-E

- Steel air extract valves for wall or ceiling installation, suitable for air supply and exhaust inside buildings.
- Pressed steel valve/grille with an adjustable core, with galvanised steel mounting components.
- Adjustable core for simple airflow regulation, supplied with a 42 mm mounting frame.
- Mounting & finish: Fixes directly into the mounting frame. Standard colours RAL 9010 and RAL 9016.



Item Code	Size (mm)	Neck A (mm)	Face B (mm)	Height H (mm)
237210E	100mm	98mm	150mm	42mm
237212E	125mm	123mm	175mm	42mm
237215E	150mm	148mm	200mm	42mm
237216E	160mm	159mm	210mm	42mm
237220E	200mm	198mm	250mm	42mm

Options

Standard colours RAL 9010 and RAL 9016; other RAL colours available on request.

Fire Rated Air Valve - AV-FR

- Purpose-built for recessed ceiling installations in fire-rated floor/ceiling constructions, offering a cost-effective compliant option.
- In a fire, the integral intumescent material expands rapidly to seal the valve, helping maintain the ceiling's fire resistance rating and limit fire/heat spread.
- 60-minute fire rating in solid timber joist floor/ceiling constructions and meets Approved Document B (Fire Safety) requirements.

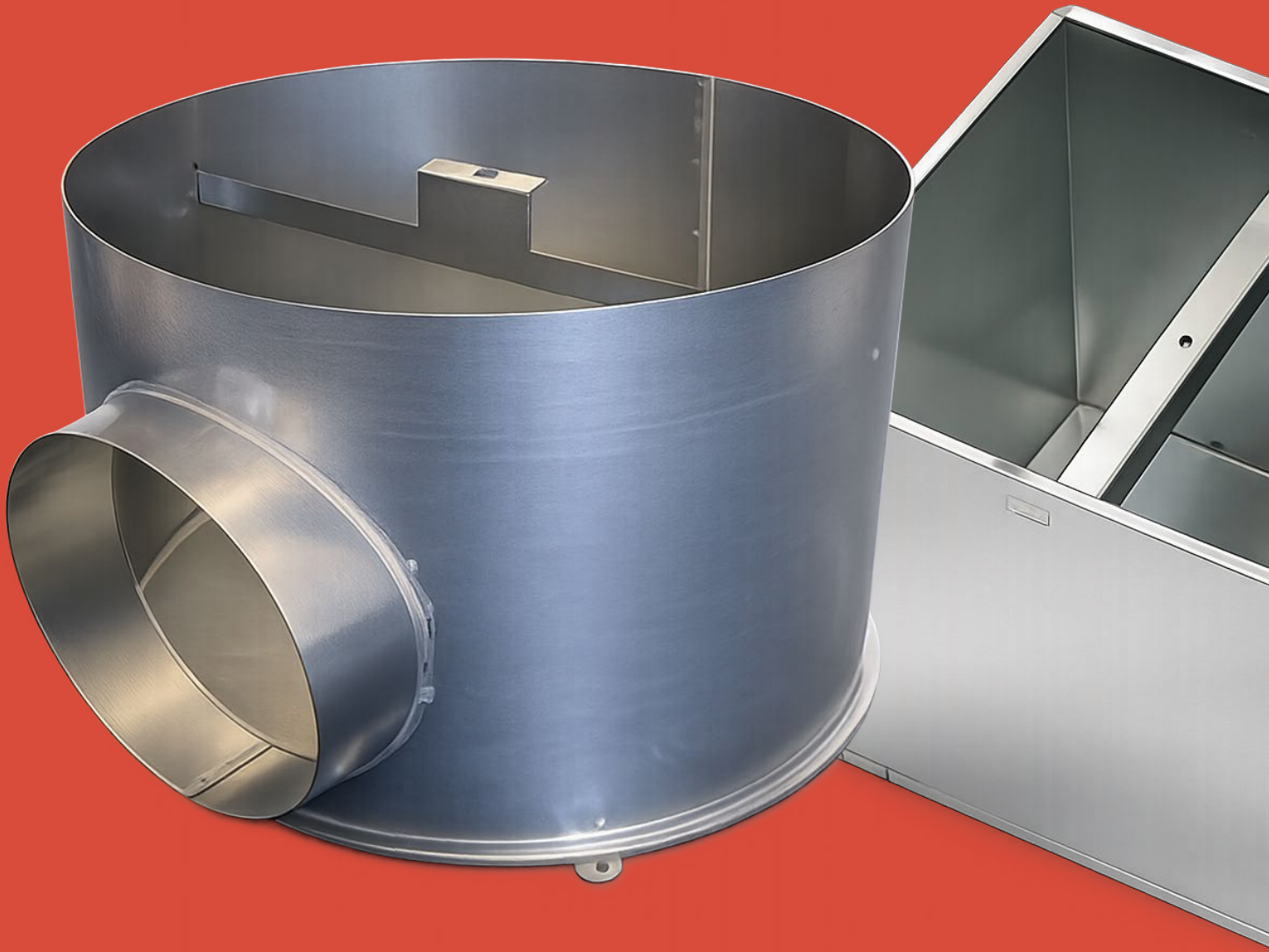


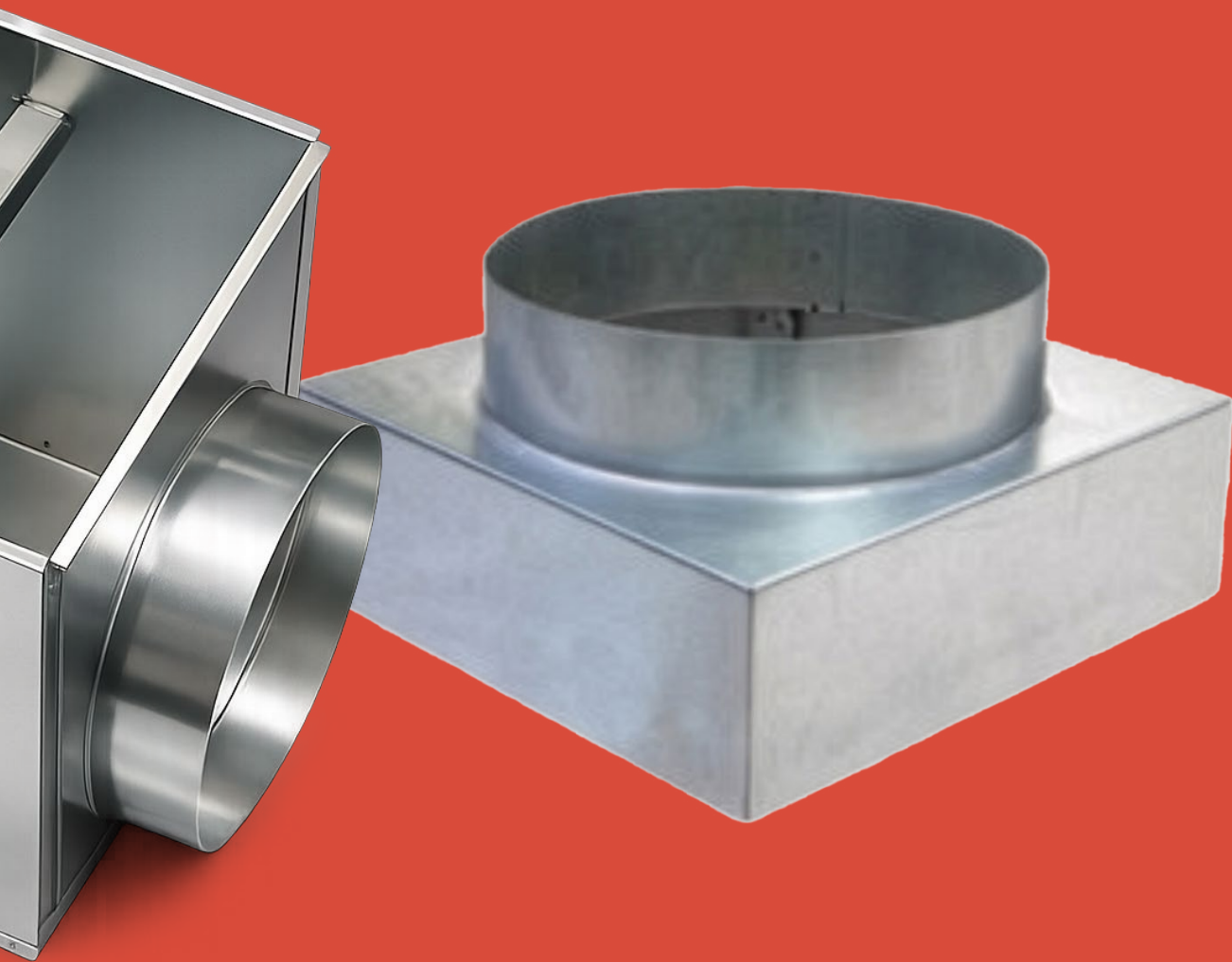
Item Code	Exact Neck A (mm)	Face D (mm)	Height F (mm)
Supply			
237210-FR-9016	100mm	150mm	42mm
237212-FR-9016	125mm	175mm	42mm
237215-FR-9016	150mm	200mm	42mm
237220-FR-9016	200mm	250mm	42mm
Extract			
237210E-FR-9016	100mm	150mm	42mm
237212E-FR-9016	125mm	175mm	42mm
237215E-FR-9016	150mm	200mm	42mm
237220E-FR-9016	200mm	250mm	42mm

Plenum Boxes

Polyaire's range of plenum boxes is engineered to provide an efficient transition between ductwork and grilles, ensuring uniform air distribution across the system. Available in various configurations and sizes, these boxes are designed to reduce air turbulence and noise for a quieter, more comfortable environment.

Built for durability and easy installation, they serve as a critical component in maintaining the balanced performance and airflow integrity of any high-quality HVAC installation.





Plenum Boxes - Swirl

Square Swirl Diffuser Plenum Box - PB-PS

- Made from Galvanised Sheet Steel - 0.7mm thick
- Central Fixing bar (M5 or M6 Screw + Cap as standard)



Locally manufactured to order,
enquire for other sizes and finishes

Item Code	Type	Size (mm)	Height (mm)	Entry (mm)
MTO	Unlined	500 x 500	Spigot Size + 100mm	Side
MTO	Unlined	595 x 595	Spigot Size + 100mm	Side
MTO	Unlined	500 x 500	100mm	Top
MTO	Unlined	595 x 595	100mm	Top
MTO	Insulated	500 x 500	Spigot Size + 100mm	Side
MTO	Insulated	595 x 595	Spigot Size + 100mm	Side
MTO	Insulated	500 x 500	100mm	Top
MTO	Insulated	595 x 595	100mm	Top

Options

Other size boxes can be made to order and specification to your requirements.

Circular Swirl Diffuser Plenum Box - PB-ODS

- Made from Galvanised Sheet Steel - 0.7mm thick.
- Central Fixing bar (M5 or M6 Screw + Cap as standard).



Locally manufactured to order,
enquire for other sizes and finishes

Item Code (Unlined)	Item Code (Insulated)	Neck Size (mm)	Height (mm)	Entry (mm)
CSE 254	CSE 254 + Lining	254	Spigot Size + 100mm	Side
CSE 350	CSE 350 + Lining	350	Spigot Size + 100mm	Side
CSE 450	CSE 450 + Lining	450	Spigot Size + 100mm	Side
CSE 540	CSE 540 + Lining	540	Spigot Size + 100mm	Side
CTE 254	CTE 254 + Lining	254	100mm	Top
CTE 350	CTE 350 + Lining	350	100mm	Top
CTE 450	CTE 450 + Lining	450	100mm	Top
CTE 540	CTE 540 + Lining	540	100mm	Top

Options

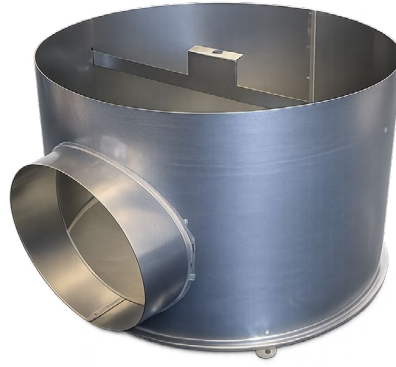
Other size boxes can be made to order and specification to your requirements.

Boxes can be made to fit either neck or overall size of ODS swirl.

Comes with fixing lugs.

Curved Frame Swirl Diffuser Plenum Box - PB-RSW

- Made from Galvanised Sheet Steel - 0.7mm thick.
- Central Fixing bar (M5 or M6 Screw + Cap as standard).



Locally manufactured to order,
enquire for other sizes and finishes

Item Code (Unlined)	Item Code (Insulated)	Neck Size (mm)	Height (mm)	Entry (mm)
RSW-CSE 160	RSW-CSE 160 + Lining	160	Spigot Size + 100mm	Side
RSW-CSE 200	RSW-CSE 200 + Lining	200	Spigot Size + 100mm	Side
RSW-CSE 250	RSW-CSE 250 + Lining	250	Spigot Size + 100mm	Side
RSW-CSE 315	RSW-CSE 315 + Lining	315	Spigot Size + 100mm	Side
RSW-CSE 355	RSW-CSE 355 + Lining	355	Spigot Size + 100mm	Side
RSW-CSE 400	RSW-CSE 400 + Lining	400	Spigot Size + 100mm	Side
RSW-CSE 450	RSW-CSE 450 + Lining	450	Spigot Size + 100mm	Side
RSW-CSE 630	RSW-CSE 630 + Lining	630	Spigot Size + 100mm	Side
RSW-CTE 160	RSW-CTE 160 + Lining	160	100mm	Top
RSW-CTE 200	RSW-CTE 200 + Lining	200	100mm	Top
RSW-CTE 250	RSW-CTE 250 + Lining	250	100mm	Top
RSW-CTE 315	RSW-CTE 315 + Lining	315	100mm	Top
RSW-CTE 355	RSW-CTE 355 + Lining	355	100mm	Top
RSW-CTE 400	RSW-CTE 400 + Lining	400	100mm	Top
RSW-CTE 450	RSW-CTE 450 + Lining	450	100mm	Top
RSW-CTE 630	RSW-CTE 630 + Lining	630	100mm	Top

Options

Other size boxes can be made to order and specification to your requirements.

Boxes can be made to fit either neck or overall size of ODS swirl.

Comes with fixing lugs.

Plenum Boxes - Side

Side Entry Plenum Box - PB-SE

- Made from Galvanised Sheet Steel - 0.7mm thick.
- Insulated option available.



Locally manufactured to order, enquire for other sizes and finishes

H \ L	100	150	200	225	250	300	350	375	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
225	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
300	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
350	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
375	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
400	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
450	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
500	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
550	-	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○
600	-	-	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○

■ Standard Size ○ Made to Order

Item Code (Unlined)	Item Code (Insulated)	Size (mm)	Height (mm)	Lining (mm)
PSE 150Sq	PSE 150Sq + Lining	150 x 150	Spigot diameter + 100mm	6
PSE 200Sq	PSE 200Sq + Lining	200 x 200	Spigot diameter + 100mm	6
PSE 225Sq	PSE 225Sq + Lining	225 x 225	Spigot diameter + 100mm	6
PSE 230Sq	PSE 230Sq + Lining	230 x 230	Spigot diameter + 100mm	6
PSE 250Sq	PSE 250Sq + Lining	250 x 250	Spigot diameter + 100mm	6
PSE 300Sq	PSE 300Sq + Lining	300 x 300	Spigot diameter + 100mm	6
PSE 350Sq	PSE 350Sq + Lining	350 x 350	Spigot diameter + 100mm	6
PSE 375Sq	PSE 375Sq + Lining	375 x 375	Spigot diameter + 100mm	6
PSE 380Sq	PSE 380Sq + Lining	380 x 380	Spigot diameter + 100mm	6
PSE 400Sq	PSE 400Sq + Lining	400 x 400	Spigot diameter + 100mm	6
PSE 450Sq	PSE 450Sq + Lining	450 x 450	Spigot diameter + 100mm	6
PSE 500Sq	PSE 500Sq + Lining	500 x 500	Spigot diameter + 100mm	6
PSE 550Sq	PSE 550Sq + Lining	550 x 550	Spigot diameter + 100mm	6
PSE 600Sq	PSE 600Sq + Lining	600 x 600	Spigot diameter + 100mm	6
PSE EC Double Tile	PSE EC Double Tile	1155 x 555	Spigot diameter + 100mm	6
PSE LFD Double Tile	PSE LFD Double Tile	1055 x 455	Spigot diameter + 100mm	6

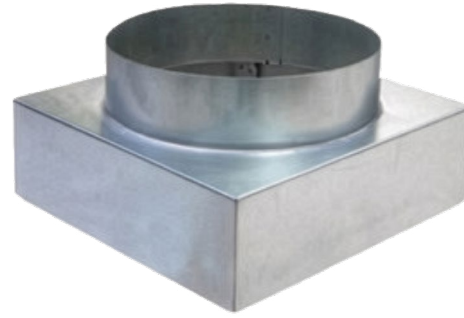
Options

Other size boxes can be made to order and specification to your requirements.

Plenum Boxes - Top

Top Entry Plenum Box - PB-TE

- Made from Galvanised Sheet Steel - 0.7mm thick.
- Insulated option available.



Locally manufactured to order, enquire for other sizes and finishes

H \ L	100	150	200	225	250	300	350	375	400	450	500	550	600	650	700	750	800
100	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
150	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
200	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○	○
225	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○	○
250	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○	○
300	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○	○
350	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○	○
375	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○	○
400	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○	○
450	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○	○
500	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○	○
550	-	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○	○
600	-	-	-	-	-	-	-	-	-	-	-	-	■	○	○	○	○

■ Standard Size ○ Made to Order

Item Code (Unlined)	Item Code (Insulated)	Size (mm)	Height (mm)	Lining (mm)
670144 TLO	670144 TLO + Lining	150 x 150	100mm	6
670145 TLO	670145 TLO + Lining	200 x 200	100mm	6
670146 TLO	670146 TLO + Lining	225 x 225	100mm	6
670147 TLO	670147 TLO + Lining	250 x 250	100mm	6
670148 TLO	670148 TLO + Lining	300 x 300	100mm	6
670149 TLO	670149 TLO + Lining	350 x 350	100mm	6
670149 TLO 375	670149 TLO 375 + Lining	375 x 375	100mm	6
670150 TLO	670150 TLO + Lining	400 x 400	100mm	6
670151 TLO	670151 TLO + Lining	450 x 450	100mm	6
670152 TLO	670152 TLO + Lining	550 x 550	100mm	6
670153 Special	670153 Special + Lining	*** x ***	100mm	6
670154 TLO	670154 TLO + Lining	600 x 600	100mm	6
670155 TLO	670155 TLO + Lining	1055 x 455	100mm	6
670156 TLO	670154 TLO + Lining	1155 x 555	100mm	6

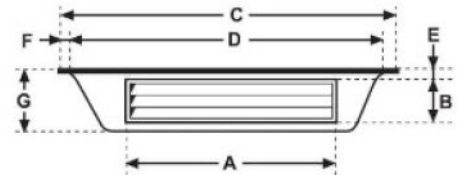
Options

Other size boxes can be made to order and specification to your requirements.

Plenum Boxes - Evaporative

Evaporative Supply Plenum - ACP2

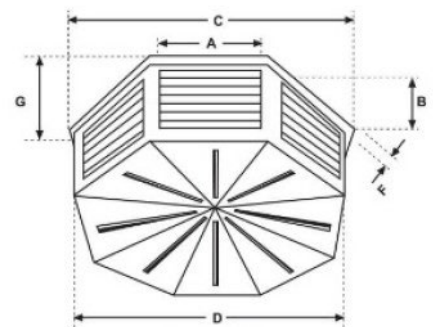
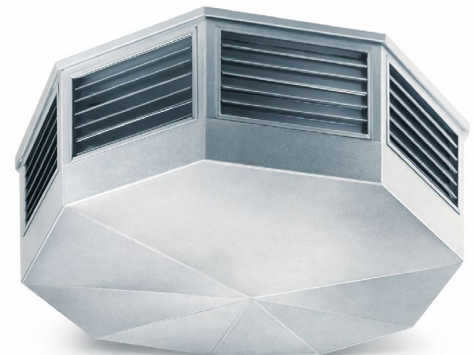
- Designed for broad, even airflow in industrial and commercial applications, including evaporative A/C systems.
- One-piece vacuum-formed high-grade engineering material with a textured finish—lightweight and suitable for wet areas.
- Mounts easily onto a matching dropper section for quick on-site fitment.
- Fitted with fully adjustable galvanised steel louvre blades to tune airflow direction/volume, handling up to 14,000 m³/h capacity.



Item Code	Face Size C (mm)	Opening Size A (mm)	Sides	Adaptor Plate
242625	890	560	4	N/A
242625A	890	560	4	550mm Spigot

Evaporative Supply Plenum - ACP3

- Designed for broad, even airflow in industrial and commercial applications, including evaporative A/C systems.
- One-piece vacuum-formed high-grade engineering material with a textured finish—lightweight and suitable for wet areas.
- Mounts easily onto a matching dropper section for quick on-site fitment.
- Fitted with fully adjustable galvanised louvre blades to tune airflow direction/volume, handling approximately 9,000–18,000 m³/h capacity.

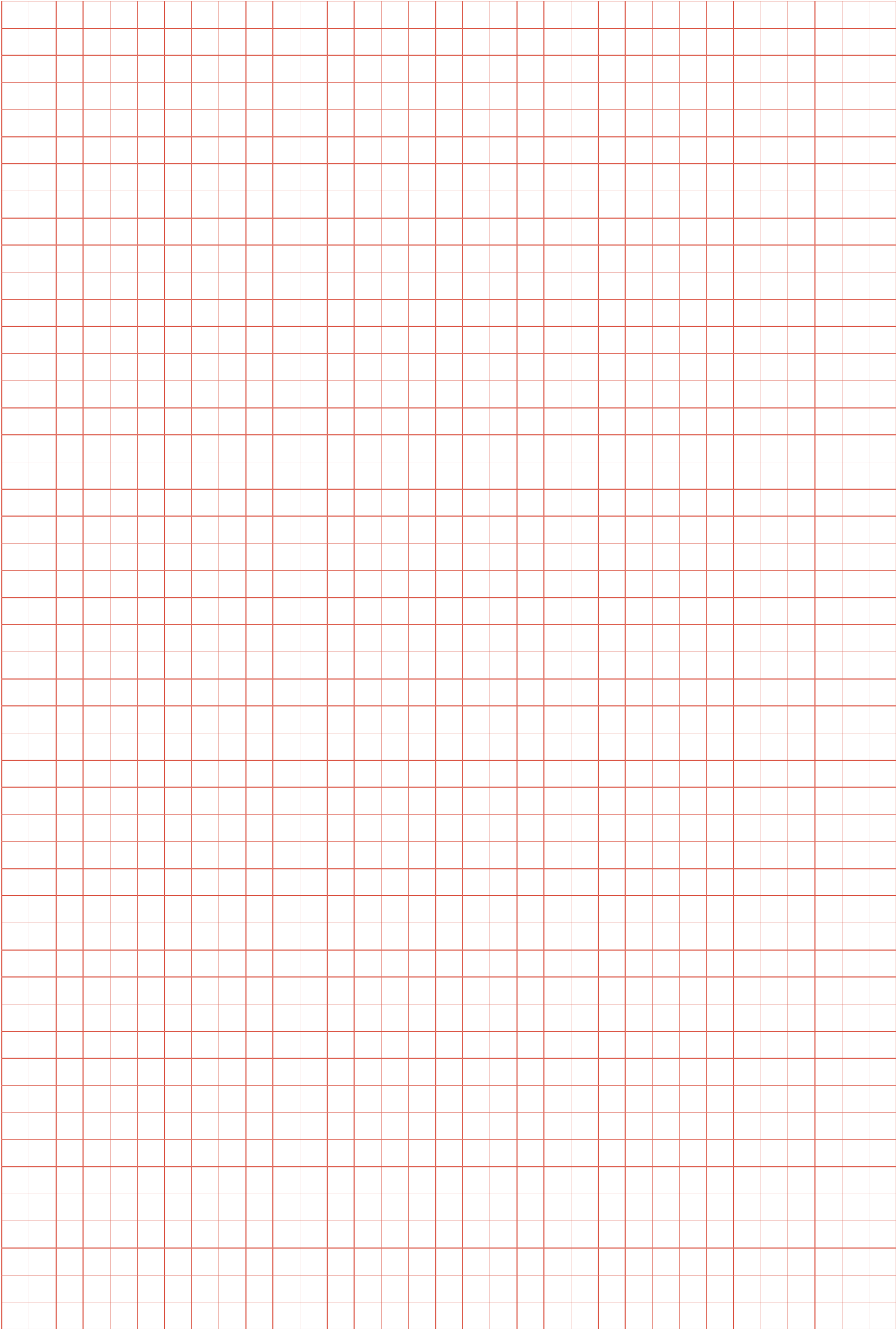


Item Code	Face Size C (mm)	Opening Size A (mm)	Sides	Adaptor Plate
242626	1100	350	8	N/A
242626B	1100	350	8	550mm Spigot

Options

Can also be made in stainless steel.

NOTES

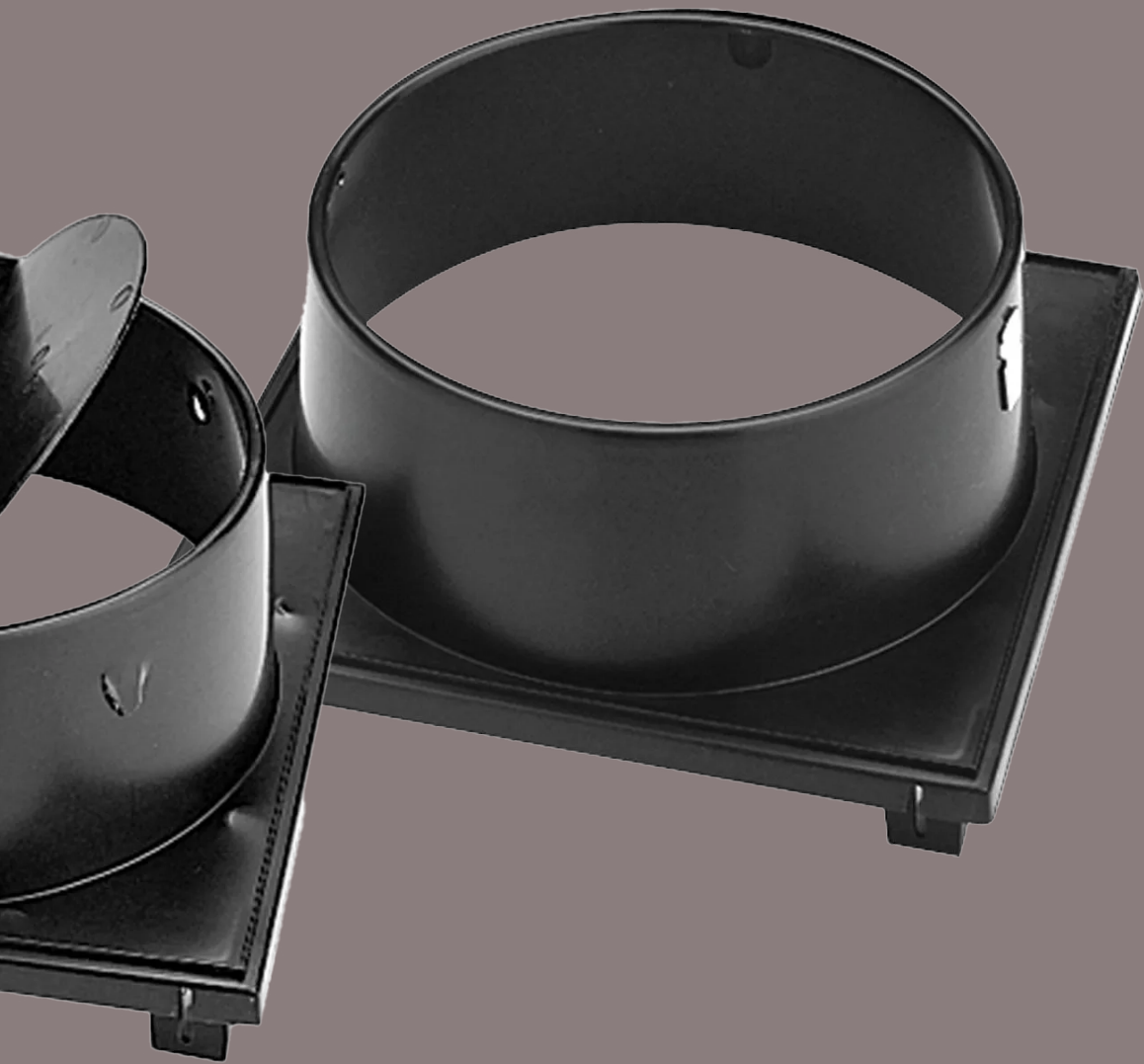


Adaptors

Polyaire's range of adaptors is designed to provide a seamless transition between different duct sizes and shapes within an air distribution network. Precision-engineered for a secure and airtight fit, these adaptors minimise air turbulence and pressure loss, ensuring the system operates at peak efficiency.

Available in a variety of configurations to suit diverse installation requirements, they are a durable and essential solution for achieving a professional, high-performance HVAC setup.





Adaptors

Neck Adaptors - PNA

- Crafted from durable PP plastic and coated in a sleek matte black finish, this adaptor seamlessly integrates into various settings.



Item Code	Size (mm)	Spigot Size (mm)
431056	230 x 230	150 dia
431057	230 x 230	200 dia
431058	300 x 300	200 dia
431059	300 x 300	250 dia
431060	300 x 300	300 dia
431060A	350 x 350	200 dia
431061	350 x 350	300 dia
431062	350 x 350	350 dia
431063	400 x 400	350 dia
431064	400 x 400	400 dia
431064A	400 x 400	200 dia
431065	450 x 450	400 dia
431066	450 x 450	450 dia
431132	450 x 450	200 dia
431133	500 x 500	200 dia

Neck Adaptors with Butterfly Damper - PNA-D

- Crafted from durable PP plastic and coated in a sleek matte black finish, this adaptor seamlessly integrates into various settings.
- Adjustable butterfly damper.



Item Code	Size (mm)	Spigot Size (mm)
431067	230 x 230	150 dia
431068	230 x 230	200 dia
431069	300 x 300	200 dia
431070	300 x 300	250 dia
431071	300 x 300	300 dia

Square Neck Adaptors - PNA-SQ

- Our range of polymer top entry plenum boxes offer a cost effective and lightweight method of ductwork connection to our grille range.
- All plenum boxes incorporate extended corners and a strengthened neck. Support ridges provide, not only additional strength to the boxes, but allow for easy stacking of the product.
- Plenum boxes are manufactured using recycled HIPS material, incorporating a matt black interior finish.



Item Code	Face (mm)	Spigot (mm)	Colour	Material
990005	150 x 150	100	Black	Plastic
990109	200 x 200	200	Black	Plastic
990110	200 x 200	150	Black	Plastic
990111	200 x 200	100	Black	Plastic
990103	225 x 225	200	Black	Plastic
990107	230 x 230	150	Black	Plastic
990108	230 x 230	200	Black	Plastic
990100	250 x 250	150	Black	Plastic
990101	250 x 250	200	Black	Plastic
990102	250 x 250	250	Black	Plastic
990104	300 x 300	200	Black	Plastic
990105	300 x 300	250	Black	Plastic
990106	350 x 350	250	Black	Plastic
991500	400 x 400	200	Black	Plastic
991501	400 x 400	250	Black	Plastic
991510	450 x 450	150	Black	Plastic
991511	450 x 450	200	Black	Plastic
991512	450 x 450	250	Black	Plastic
991513	450 x 450	400	Black	Plastic
991519	460 x 460	100	Black	Plastic
991520	460 x 460	150	Black	Plastic
991521	460 x 460	200	Black	Plastic
991522	460 x 460	250	Black	Plastic
991523	460 x 460	300	Black	Plastic
991530	500 x 500	150	Black	Plastic
991531	500 x 500	200	Black	Plastic
991532	500 x 500	250	Black	Plastic
991533	500 x 500	300	Black	Plastic
991534	500 x 500	350	Black	Plastic
991540	550 x 550	150	Black	Plastic
991541	550 x 550	200	Black	Plastic
991542	550 x 550	250	Black	Plastic
991543	550 x 550	300	Black	Plastic
991544	550 x 550	350	Black	Plastic
991545	550 x 550	400	Black	Plastic

Options

Other sizes available on request - made to order.

Multi Spigot Neck Adaptors - PNA-MS

- Our range of polymer top entry plenum boxes offer a cost effective and lightweight method of ductwork connection to our grille range.
- All plenum boxes incorporate extended corners and a strengthened neck. Support ridges provide, not only additional strength to the boxes, but allow for easy stacking of the product.
- Plenum boxes are manufactured using recycled HIPS material, incorporating a matt black interior finish.

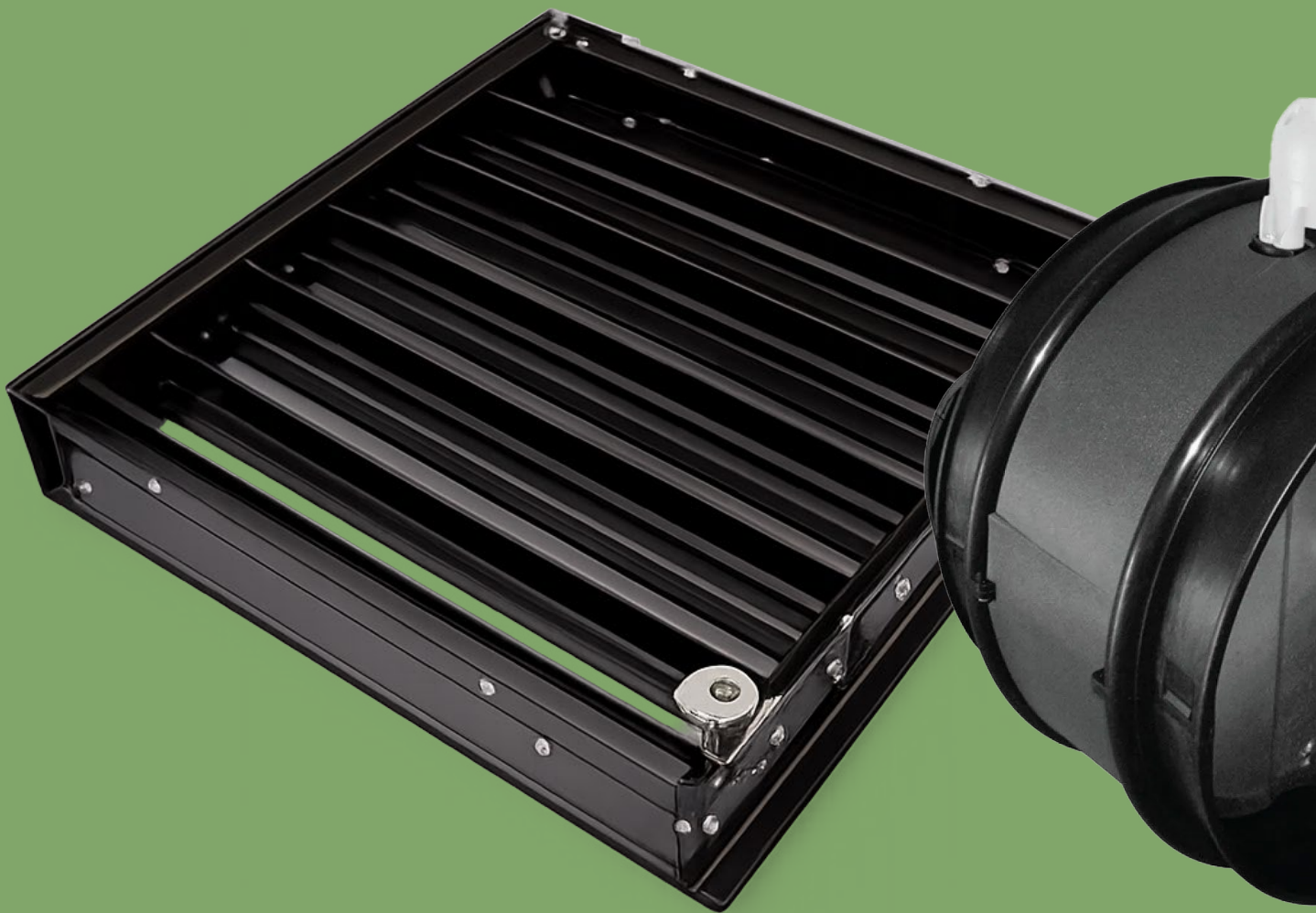


Item Code	Face (mm)	Spigot (mm)	Colour	Material
990005	150 x 150	100 / 125 / 150	Black	Plastic
990006	200 x 200	100 / 150 / 200	Black	Plastic
990008	225 x 225	100 / 150 / 200	Black	Plastic
990007	300 x 300	100 / 150 / 200	Black	Plastic
990009	450 x 450	150 / 200 / 250	Black	Plastic
990010	550 x 550	125 / 200 / 300	Black	Plastic

Dampers & Motors

Polyaire's range of dampers and motors provides precise control over airflow and zone management within a ventilation system. From manual volume control dampers to motorised options for automated zoning, these components are engineered for smooth operation and long-term reliability.

When paired with high-torque actuators, they allow for accurate air balancing and enhanced energy efficiency, ensuring comfort is delivered exactly where and when it's needed.

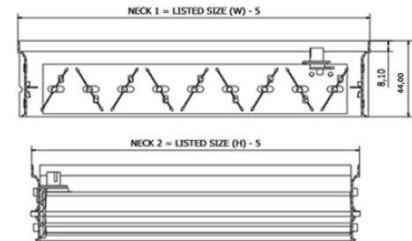




Dampers & Motors

Opposed Blade Dampers - OBD

- Polyaire Model OBD Opposed Blade Dampers regulate airflow in supply, return and exhaust systems.
- Opposed blade action provides smoother, more even throttling across the free area.
- Installs directly behind the diffuser, grille or register for a neat, integrated solution.
- Easy manual access. Can be manually adjusted through the face of the grille/register for simple commissioning and balancing.



Item Code	Nominal Neck (mm)	Exact Neck (mm)	Colour	Height (mm)
248006/1E	100 x 100	95 x 95	Matt Black	44
248006	150 x 150	145 x 145	Matt Black	44
248006E	200 x 200	195 x 195	Matt Black	44
248007	225 x 225	220 x 220	Matt Black	44
248007E	250 x 250	245 x 245	Matt Black	44
248008	300 x 300	295 x 295	Matt Black	44
248009E	350 x 350	345 x 345	Matt Black	44
248009	375 x 375	370 x 370	Matt Black	44
248010E	400 x 400	395 x 395	Matt Black	44
248010	450 x 450	445 x 445	Matt Black	44
248011E	500 x 500	495 x 495	Matt Black	44
248012	600 x 600	595 x 595	Matt Black	44
248012E	547 x 547*	542 x 542	Matt Black	44
248012E-DE^	547 x 547*	542 x 542	Matt Black	44

* Fit fixed core 595sq Egg Crate

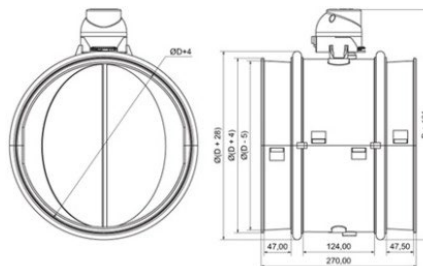
^Double Bank

Options

Model OBD are available in stock sizes and can also be manufactured to order in a wide range of sizes.

Motorised Zone Damper - 240V

- Polyaire Motorised Inline Dampers are designed for motorised volume control adjustment in flexible duct runs.
- Features all metal shaft and motor (240v), with folded 'Hi Torque' metal blade for long life strength and durability. 2.4Nm (tested) to take large loads \ velocities.
- Construction is from robust industrial plastic with provision for flexible duct connection on both sides.



Item Code	Size (mm)	Height (mm)	Colour	Motor
532000	150 dia	270	Black	White 240V
532001	200 dia	270	Black	White 240V
532002	250 dia	270	Black	White 240V
532003	300 dia	270	Black	White 240V
532004	350 dia	270	Black	White 240V
532005	400 dia	270	Black	White 240V

Options

Standard with White 240V motor, green 24v motor available.

Damper Motors

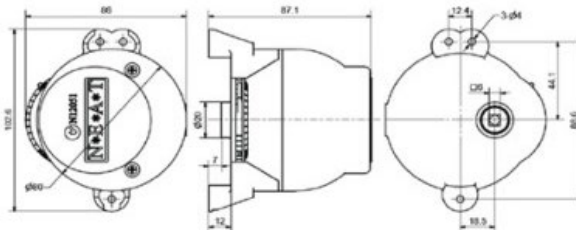
White Motor - 240v

- Connection: Stripped wires
- Application: via SPDT wall switch



Green Motor - 24v

- Connection - RJ12 socket & plug
- Application: All Zonemaster controllers except VAV



Item Code	Motor Type	Colour
532030	24V Plug	Green
532013	240 V With Lead	White



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