

AIR CONDITIONING PRODUCT CATALOGUE

Edition 1

Study
1.92 kW
150 L/s
15.4 m²

Media
1.98 kW
154
15.

ø250

Bed 2

ø250

ø450

ø400

ø400

2.5

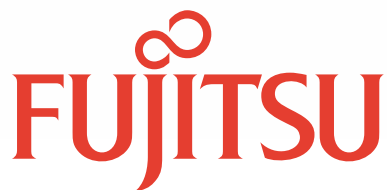


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across Australia.



polyaire

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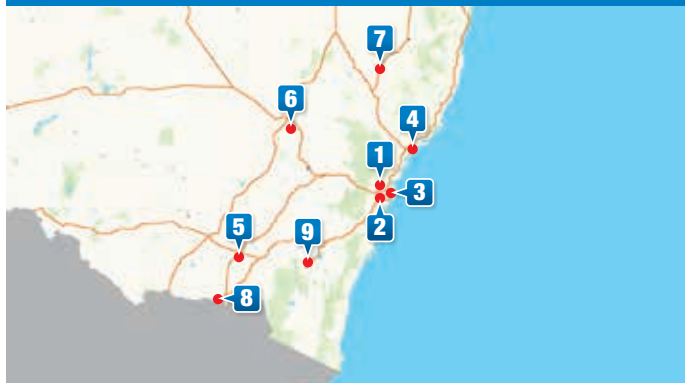
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Polyaire Locations

NEW SOUTH WALES/ACT

sales.nsw@polyaire.com.au



1. SEVEN HILLS

Unit 2/167 Prospect Hwy
Seven Hills NSW 2147
Ph: (02) 8811 1333
Fax: (02) 9620 8088

2. PADSTOW

50 Gibson Avenue
Padstow NSW 2211
Ph: (02) 9773 4186
Fax: (02) 9773 7084

3. ALEXANDRIA

Unit 10/33 Maddox Street
Alexandria NSW 2015
Ph: (02) 9557 6948
Fax: (02) 9557 6954

4. CARDIFF

70 Mitchell Road
Cardiff NSW 2285
Ph: (02) 4954 6677
Fax: (02) 4954 6033

5. WAGGA

22 Schiller Street
Wagga NSW 2650
Ph: (02) 6921 7606
Fax: (02) 6921 1987

6. DUBBO

4 Young St
Dubbo NSW 2830
Ph: (02) 6884 4328
Fax: (02) 6884 4362

7. TAMWORTH

Unit 2/19-20 Goonan St
Tamworth NSW 2340
Ph: (02) 6765 3881
Fax: (02) 6762 3705

8. ALBURY

107 North Street
Albury NSW 2640
Ph: (02) 6021 7206
Fax: (02) 6041 2090

9. CANBERRA

Unit 6, 17 Tennant Street
Fyshwick ACT 2609
Ph: (02) 6126 3600
Fax: (02) 6228 1338

QUEENSLAND

sales.qld@polyaire.com.au

1. HENDRA

51 Navigator Place
Hendra QLD 4011
Ph: (07) 3866 8700
Fax: (07) 3256 8178

3. MOLENDINAR

2/3 Anisar Court
Molendinar QLD 4214
Ph: (07) 5656 1900
Fax: (07) 5597 5985

5. WARANA

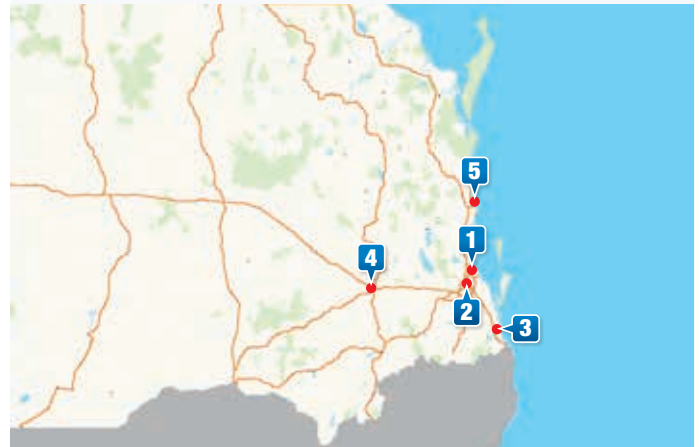
16 Textile Avenue
Warana QLD 4575
Ph: (07) 5493 9736
Fax: (07) 5493 9693

2. ACACIA RIDGE

60 Dulacca Street
Acacia Ridge QLD 4110
Ph: (07) 3273 8043
Fax: (07) 3273 6104

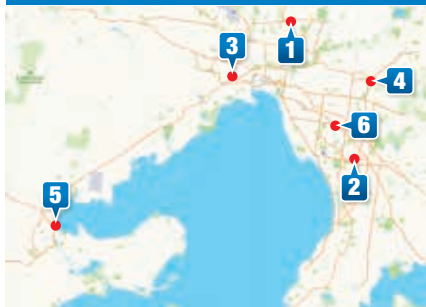
4. TOOWOOMBA

Unit 2, 5-7 Spalding Street
Harristown QLD 4350
Ph: (07) 4635 1122
Fax: (07) 4613 4100



VICTORIA

sales.vic@polyaire.com.au



1. THOMASTOWN

76 Northgate Drive
Thomastown VIC 3074
Ph: (03) 9465 8022
Fax: (03) 9465 5484

2. DANDENONG

9-15 Arkwright Drive
Dandenong VIC 3175
Ph: (03) 9793 1611
Fax: (03) 9792 0501

3. SUNSHINE WEST

1 Grace Court
Sunshine West VIC 3020
Ph: (03) 9311 5679
Fax: (03) 9311 9571

4. RINGWOOD

6/100 New Street
Ringwood VIC 3134
Ph: (03) 9876 0633
Fax: (03) 9879 2233

5. GEELONG

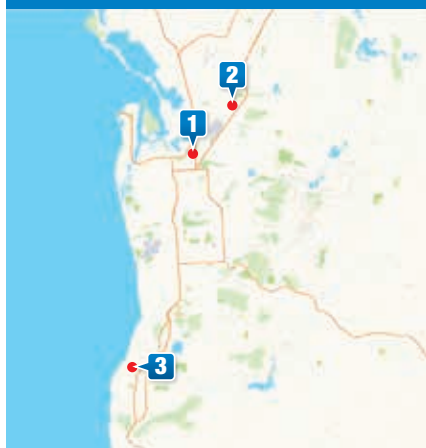
106 Barwon Terrace
South Geelong VIC 3220
Ph: (03) 5221 7644
Fax: (03) 5221 8299

6. CLAYTON

1507 Centre Road
Clayton VIC 3168
Ph: (03) 9558 8029
Fax: (03) 9548 7159

SOUTH AUSTRALIA

sales.sa@polyaire.com.au



1. GEPPS CROSS

11-13 White Road
Gepps Cross SA 5094
Ph: (08) 8349 5959
Fax: (08) 8349 6659

2. BRAHMA LODGE

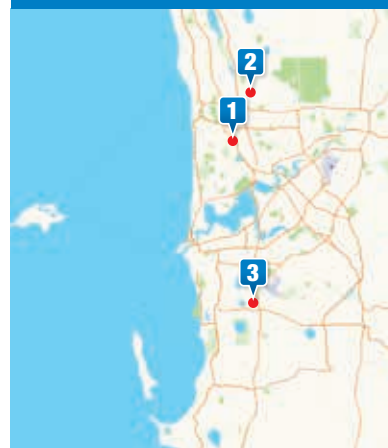
1590 Main North Road
Brahma Lodge SA 5109
Ph: (08) 8182 3347
Fax: (08) 8182 3348

3. LONSDALE

15 Dorset Street
Lonsdale SA 5160
Ph: (08) 8326 7063
Fax: (08) 8186 1069

WESTERN AUSTRALIA

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Balcatta WA 6021
Ph: (08) 6241 0555
Fax: (08) 9240 1484

2. WANGARA

15 Opportunity Street
Wangara WA 6065
Ph: (08) 9303 4506
Fax: (08) 9302 5420

3. COCKBURN CENTRAL

11 Spencer Street
Cockburn Central WA 6164
Ph: (08) 9414 1723
Fax: (08) 9417 9329

polyaire

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www.polyaire.com.au



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Our Brand and Values

Polyaire Pty Ltd is Australia's largest manufacturer and distributor of air conditioning products. Acquired in 1996 as a family owned business, we have expanded to more than 20 distribution and manufacturing centres across Australia.

We place great emphasis on maintaining strong customer relationships. We are able to custom-make a complete range of air conditioning systems to suit our customers' needs and having them readily available as and when they need them. Our customers and suppliers are treated like a valued partner which means working closely and openly towards a sustainable solution. Having these values as an integral part of our business has made Polyaire the preferred supplier in providing comfort to Australia.

Our Products

One of the things that set Polyaire apart from its competitors is its solution-based product offering which are of premium quality, great value and competitive pricing. Each year, Polyaire invests a significant amount into research and development towards products, manufacturing and operational improvements. We also hold numerous Patents and Registered Designs in Australia. Some of our commercially successful product innovations include the Multi Directional Outlets, AirTouch Air Control Systems, and the Quick Fix system of high torque motorised damper and plastic fittings.

When it comes to collaboration, we are proud to be associated with some of the major brands and key suppliers in the industry. This has facilitated Polyaire to be the only company in Australia that is truly a national manufacturer and distributor of air conditioning products, servicing both the residential and commercial sectors.

In the Residential market, our products are suitable for every type of air conditioning installation from small rooms requiring a high wall split air conditioner to a large home demanding a fully zoned ducted system. As for the Commercial division, our vast knowledge and experience in air conditioning and componentry has earned us a name in the country based on the various projects we have undertaken including convention centres, office buildings, hotels and hospitals.

Our Strengths

Polyaire is managed by a team of highly skilled and highly competent personnel who have a customer centric focus. We understand what is important to our customers and maintain the strong relationships by supporting our customers in any way we can such as product selection and logistical support amongst others. Our distribution centres, also known as one-stop-shops, are also what drives the business as each of them is managed by a passionate team eager to deliver excellent quality service to our customers.

Being an experienced industry player, Polyaire manages an efficient supply chain using various means of advanced equipment and systems to ensure the right products are delivered to the right customers at the right time. We ensure sufficient stock levels which enable our customer base to have access to our products anytime.

Our Future

We at Polyaire continue to build on strong and loyal customer relationships via our national distribution network. We seek to grow the industry by empowering more of our customers and making good air conditioning more accessible to the consumers. With the combined knowledge and experience of our people, we are ready to meet the growing customer demands now and in the future.





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Accessories - Duct Ties



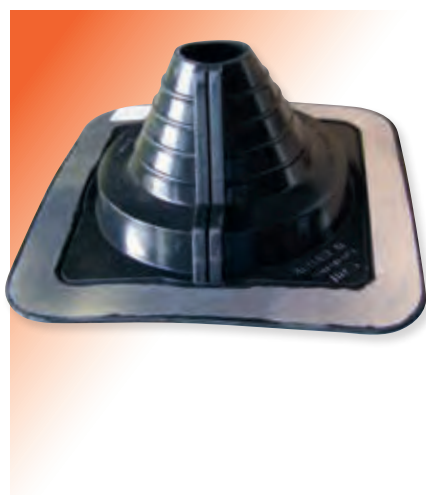
Made for use with flexible ducts for quick and secure installation to location.

Duct Ties

Sizes Available/Dimensions

Item #	Size	
	mm	inch
664460	800	32"
664461	1000	39"
664462	1350	53"

Accessories - Polytite Flashings

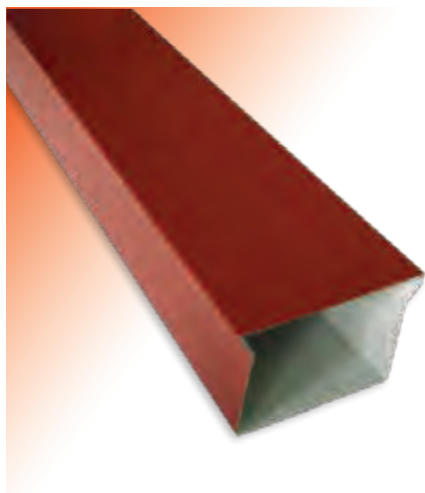


Polytite Flashing

Sizes Available/Dimensions

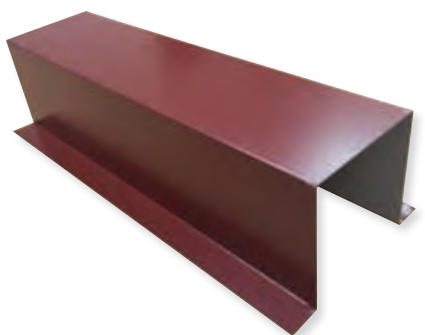
Item #	Size	
	mm	inch
865271	3 x 45	0.1" x 2"
865270	45 x 70	2" x 3"
865284	75 x 130	3" x 5"

Colourbond Cable Cover



Colourbond Cable Cover Clip On

Sizes Available/Dimensions			
Item #	Colour	Length	
		mm	inch
762500	Galvanised Box	2400	95"
769101	Manor Red	2400	95"
769102	Jasper	2400	95"
769104	Classic Cream	2400	95"
769105	Surf Mist	2400	95"
769106	Paperbark	2400	95"
769110	Woodland Grey	2400	95"
769114	Cottage Green	2400	95"
769122	Monument	2400	95"
769109	Wind Spray	2400	95"
769120	Night Sky	2400	95"
769107	Dune	2400	95"
769108	Shale Grey	2400	95"
769112	Pale Eucalyptus	2400	95"
769117	Deep Ocean	2400	95"
769118	Iron Stone	2400	95"
769123	Evening Haze	2400	95"
769124	Loft	2400	95"



Colourbond Cable Cover - Tophat

Sizes Available/Dimensions			
Item #	Colour	Length	
		mm	inch
769055	Headland	2400	95"
769059	Classic Cream	2400	95"
769060	Surf Mist	2400	95"
769061	Paperbark	2400	95"
769065	Woodland Grey	2400	95"
762501	Galvanised Top Hat	2400	95"

Copper - Pair Coil



Suitable for 400 Series Refrigerants (R410a)

Features

- **Saves Time and Money**
Installation using pre-insulated Pair Coils reduces fitting time and gives a neater more durable finish.
- **High Quality Durable Insulation**
Manufactured from cross linked closed cell polyethylene with embossed polyethylene exterior for improved durability.
- **Ease of Installation**
The insulated coating is durable and more resistant to abrasions than traditional materials. It is easier to install in tight spaces and reduces install time as the insulation doesn't need to be measured, cut and threaded on as a separate job. Also, no glue, tapes or messy powder and no sealing joints every two metres - saves time.
- **Jointing Information**
Pair Coil Copper Tube is recommended to be flare jointed.
- **Easy Transport and Storage**
The 20 metre or 5 metre coils are supplied with pink plastic end caps in rugged cardboard boxes for protection and storage. Sizing info is prominently displayed on boxes.
- **Bending**
If tight bending is required the insulation can be carefully cut back to fit the pipe bender and then replaced and glued or taped.
- **Pair Coil**
Made to the highest standards for Polyaire, one of Australia's largest air conditioning component suppliers with over 30 years as a leader in the industry. Conforms to AS/NZS1571 Copper - Seamless tube for Air Conditioning and Refrigeration.

Pair Coil 20m Length

Sizes Available/Dimensions			
Item #	Tube Size		Coil Length (m)
	mm	inch	
747111	6.35 - 9.52	1/4" - 3/8"	20
747112	6.35 - 12.7	1/4" - 1/2"	20
747113	6.35 - 15.88	1/4" - 5/8"	20
747114	9.52 - 15.88	3/8" - 5/8"	20
747115	9.52 - 19.05	3/8" - 3/4"	20

Pair Coil 5m Length

Sizes Available/Dimensions			
Item #	Tube Size		Coil Length (m)
	mm	inch	
747511	6.35 - 9.52	1/4" - 3/8"	5
747512	6.35 - 12.7	1/4" - 1/2"	5
747513	6.35 - 15.88	1/4" - 5/8"	5
747514	9.52 - 15.88	3/8" - 5/8"	5

Copper - Pair Coil - Fire Rated (AS1530.3)



Compliant with AS1530.3:1999.

Reduces fitting time and gives a neater more durable finish. Suitable for R410a, R22 HVAC Systems.

The high quality durable insulation is manufactured from cross linked closed cell polyethylene with embossed polyethylene exterior for improved durability. The insulated coating is durable and more resistant to abrasions than traditional materials. It is also easier to install in tight spaces and reduces installation time as the insulation does not need to be measured, cut or threaded on as a separate job.

Best part is you won't need glue, tapes, messy powders or sealing joints for every two metres. If tight bending is required, the insulation can be carefully cut back to fit the pipe bender and then replaced and glued/taped.

Fire Rated Pair Coil is made to the highest standards conforming to AS/NZS1571 Copper which is a seamless tube for Air Conditioning and Refrigeration.

Features

- Compliant with AS1530.3:1999.**
 Standard testing procedure for fire tests on building materials, components and structures. Includes Simultaneous determination of ignitability, flame propagation, heat release and smoke release.
- Saves Time and Money**
 Installation using pre-insulated Pair Coils reduces fitting time and gives a neater more durable finish.
- High Quality Durable Insulation**
 Manufactured from cross linked closed cell polyethylene with embossed polyethylene exterior for improved durability.
- Ease of Installation**
 The insulated coating is durable and more resistant to abrasions than traditional materials. It is easier to install in tight spaces and reduces install time as the insulation doesn't need to be measured, cut and threaded on as a separate job. Also, no glue, tapes or messy powder and no sealing joints every two metres- saves time.
- Jointing Information**
 Pair Coil Copper Tube is recommended to be flare jointed.
- Easy Transport and Storage**
 The 18 metre coils are supplied with pink plastic end caps in rugged cardboard boxes for protection and storage. Size info is prominently displayed on boxes.
- Bending**
 If tight bending is required the insulation can be carefully cut back to fit the pipe bender and then replaced and glued or taped.
- Pair Coil**
 Made to the highest standards for Polyaire, one of Australia's largest air conditioning component suppliers with over 30 years as a leader in the industry. Conforms to AS/NZS1571 Copper – Seamless tube for Air Conditioning and Refrigeration.

Fire Rated Pair Coil 18m Length

Sizes Available/Dimensions

Item #	Tube Size		Insulation (mm)	Coil Length (m)
	mm	inch		
757111	6.35 - 9.52	1/4" - 3/8"	18	18
757112	6.35 - 12.7	1/4" - 1/2"	18	18
757113	6.35 - 15.88	1/4" - 5/8"	18	18
757114	9.52 - 15.99	3/8" - 5/8"	18	18
757115	9.50 - 19.05	3/8" - 3/4"	18	18

Copper - Hard Drawn



Hard Drawn Lengths

Sizes Available/Dimensions				
Item #	Tube Size		Wall Thickness (mm)	Tube Length (m)
	mm	inch		
744463	9.52	3/8"	0.81	6
744464	12.7	1/2"	0.81	6
744630	15.88	5/8"	1.02	6
744465	19.05	3/4"	1.14	6
744087	22.22	7/8"	1.4	6
744088	25.4	1"	1.63	6
744089	28.58	1-1/8"	1.83	6

Copper - Soft Drawn



Soft Drawn

Sizes Available/Dimensions			
Item #	Tube Size (Outside Diameter)		Coil Length (m)
	mm	inch	
747051	6.35	1/4"	30
744445	9.52	3/8"	18
744446	12.7	1/2"	18
744447	15.88	5/8"	18
744443	19.05	3/4"	18
744444	22.22	7/8"	18

Insulation



Insulation

Sizes Available/Dimensions			
Item #	Tube Size (Internal Diameter)		Length (m)
	mm	inch	
767041	6.35	1/4"	2
767042	9.52	3/8"	2
767043	12.7	1/2"	2
767044	15.88	5/8"	2
767045	19.05	3/4"	2
767046	22.22	7/8"	2
767047	25.4	1"	2
767048	28.58	1"-1/8"	2
764097	34.92	1"-3/8"	2

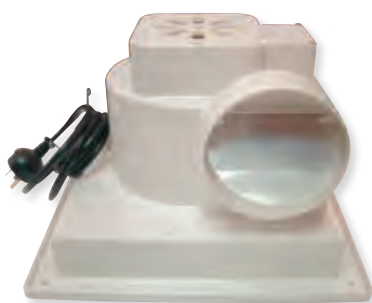
Fans - Ventilator - Derby



A compact, efficient 'all in one' ducted ventilator complete with non-return damper and 90 degree takeoff for easy installations in tight areas.

Features

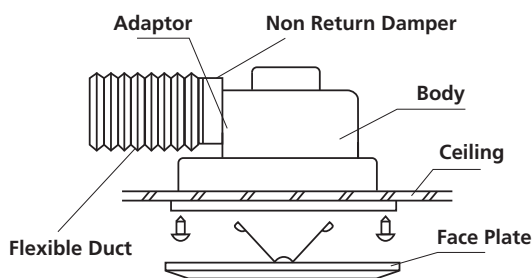
- Low Profile 90 Degree takeoff for limited access/low roof cavity use.
- Non return damper prevents backflow of air.
- Plug in 1.3 metre 240 volt power cord for ease of fitment.
- Low noise - 42 Decibels @ 1 metre gives unobtrusive everyday use.
- Face plate removes for easy cleaning.
- Low profile/ flush fit to ceiling reduces unsightly shadows.
- Attractive styling fits with most decors.
- Uses up to 6 metres of duct.
- Can be used in bathrooms, toilets, laundry rooms and wherever there is a need to remove air quietly and quickly.
- Especially useful in apartment/high rise applications where numbers of ventilators can be connected to common duct without any backflow problems.
- Can also be used for short heat shifter applications.



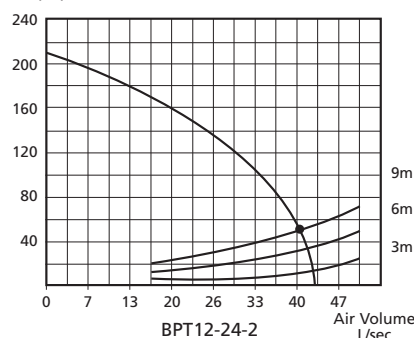
Ventilator - Derby

Sizes Available/Dimensions

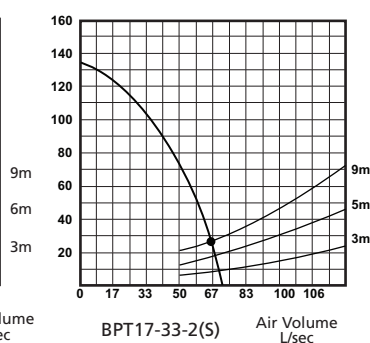
Item #	Model	Height (mm)	Size	
			mm	inch
867400	BPT12-24-2	200	100	4"
867401	BPT17-33-2(S)	215	150	6"



Static Pressure
(Pa)



Static Pressure
(Pa)



Ventilator - Derby

Item #	Model	Centrifugal Fan Diameter	Volts	Hz	Watts	Static Pressure	Rated Airflow	Sound Level at 1 Metre	Ceiling Cut Out Hole Size	Duct Size
867400	BPT12-24-2	120mm	220-240	50	34	50Pa	40 L/s	42dB	230mm x 230mm	100mm
867401	BPT17-33-2(S)	170mm	240	50	38	30	65 L/s	49dB	282mm x 282mm	150mm

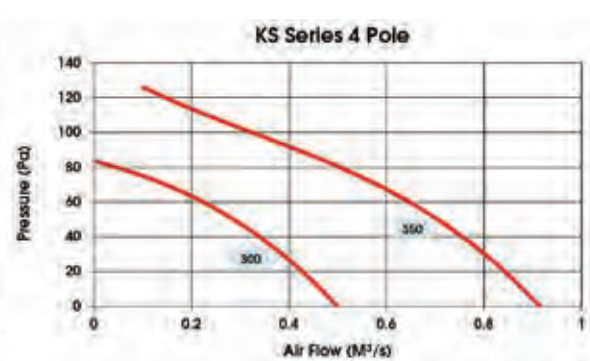
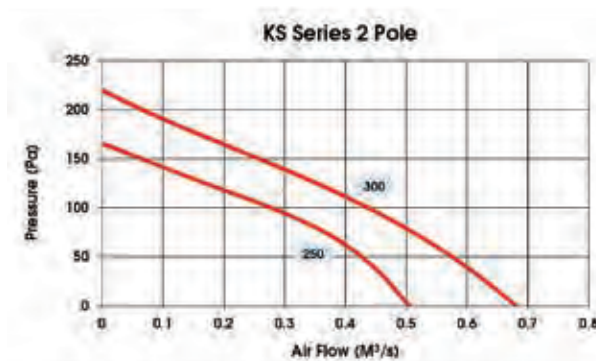
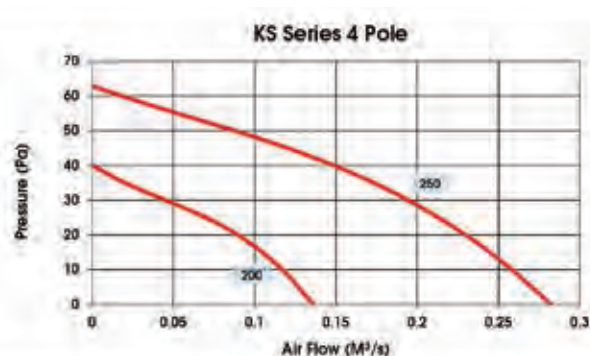
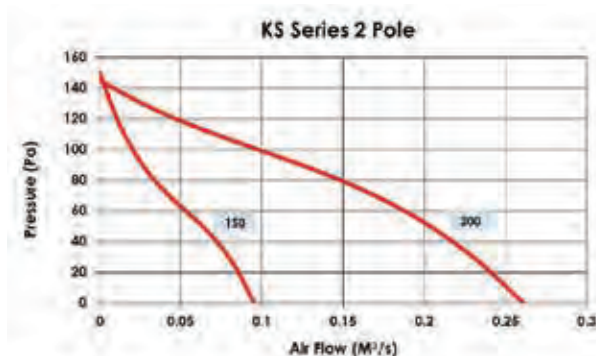
Fans - Nuaire Tube Axial



Nuaire Tube Axial Fan

Sizes Available/Dimensions

Item #	Description	Size	
		mm	inch
665915	KS150 2 Pole	150	6"
665916	KS200 2 Pole	200	8"
665917	KS200 4 Pole	200	8"
665918	KS250 2 Pole	250	10"
665919	KS250 4 Pole	250	10"
665920	KS300 2 Pole	300	12"
665921	KS300 4 Pole	300	12"
665922	KS350 4 Pole	350	14"



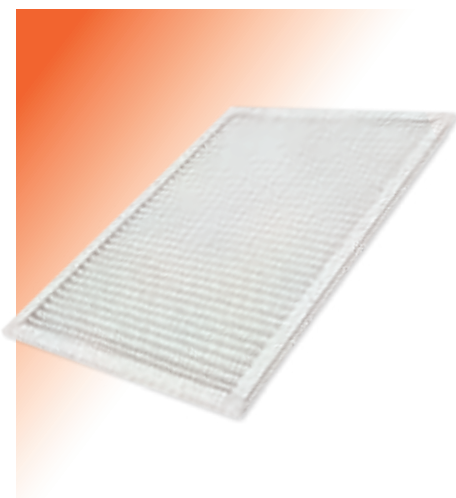
Inline Fans

Other

Sizes Available/Dimensions

Item #	Description	Size	
		mm	inch
664341	Inline fan 150	150	6"
665152	Fan Inline plastic 200	200	8"
665153	Fan Inline plastic 250	250	10"

Filters - AirClean V-Form



Features

- AirClean Filters™ are approved by the National Asthma Council Australia's Sensitive Choice® program
- Slides into standard Polyaire Hinged Filter Egg Crates. Great for retro fitting
- No need for a filter track
- Up to 70% more pleats when compared to V-form panel filters achieving a greater dust holding capacity with the lowest pressure drop
- Hot melt sealed into frame for maximum filter efficiency
 - eliminates air bypass
- Superior surface area/pressure drop
- Longer filter life
- Disposable
- Safer and more hygienic for the installer

AirClean V-Form Filters

Sizes Available/Dimensions

Item #	Description	Nom Grille Size (Metal Only)
664470	V-Form Filter Suit TBar ECHF 550SQ	550SQ
664471	V-Form Filter Suit ECHF 600 x 400	600 x 400
664472	V-Form Filter Suit ECHF 750 x 550	750 x 550
664473	V-Form Filter Suit ECHF 900 x 400	900 x 400
664474	V-Form Filter Suit ECHF 900 x 500	900 x 500
664475	V-Form Filter Suit ECHF 900 x 550	900 x 550
664476	V-Form Filter Suit TBar ECHF 1150 x 550	1150 x 550



SETTING A **NEW** STANDARD IN AIR CONDITIONING FILTRATION

- ✓ **UNIQUE (AUSTRALIAN) DESIGN**
- ✓ **MOST EFFICIENT DISPOSABLE G4 FILTER IN ITS CATEGORY**
- ✓ **THE LARGEST SURFACE AREA IN ITS CATEGORY**
- ✓ **IMPROVES UNIT PERFORMANCE**
- ✓ **REDUCE ENERGY COSTS**
- ✓ **FOR EXISTING & NEW SYSTEMS**

✓ **MORE AIRFLOW
LESS RESISTANCE**
(up to 60% less)

**Slides into your
Standard Polyaire Return
Air Grille Filter Track!**



**Now Available at:
polyaire**

CLEANER FILTERED AIR FOR HOME OR OFFICE

PVC - Pipe & Fittings



Flexible Drain Pipe

Sizes Available/Dimensions			
Item #	Tube Size		Tube Length (m)
	mm	inch	
735492	16/18	0.6"/0.7"	50

Pressure Pipe (Drain Pipe)

Sizes Available/Dimensions			
Item #	Tube Size		Tube Length (m)
	mm	inch	
735870	15	0.6"	4
735871	20	0.8"	4
735872	25	1"	4

Drains

Sizes Available/Dimensions			
Item #	Description	Tube Size	
		mm	inch
735876	Elbow 45 Degree	15	0.6"
735877	Elbow 45 Degree	20	0.8"
735873	Elbow 90 Degree	15	0.6"
735874	Elbow 90 Degree	20	0.8"
735875	Elbow 90 Degree	25	1"
735879	Equal Tee	15	0.6"
735880	Equal Tee	20	0.8"
735881	Equal Tee	25	1"
735885	Reducing Socket	15	0.6"
735892	Male Socket 20	20	0.8"
735893	Male Socket 25	25	1"

Traps

Sizes Available/Dimensions			
Item #	Description	Tube Size	
		mm	inch
733002	P Trap	20	0.8"
735846	Ez Trap 20	20	0.8"
734393	Drain Kit	20	0.8"

PVC - Trunking - MIZU

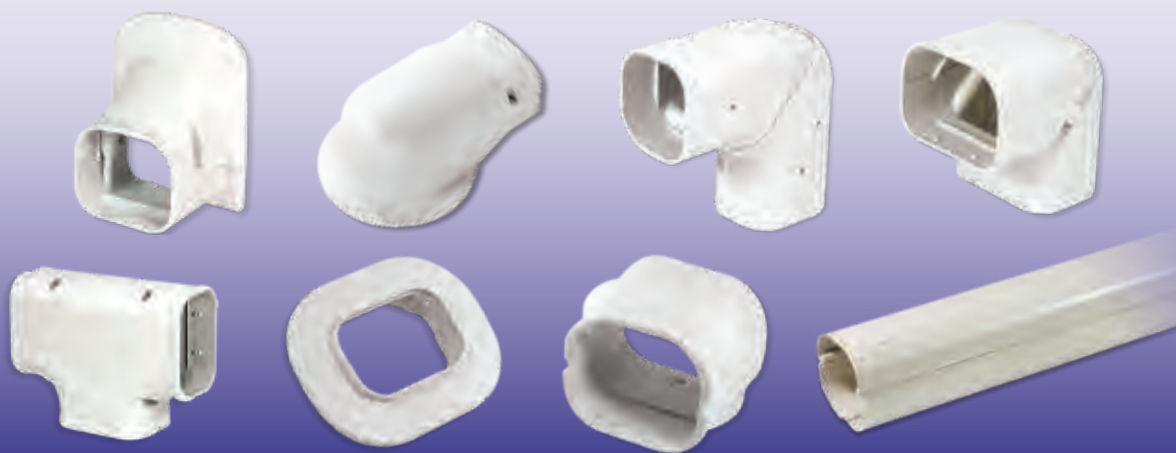
MIZU Trunking

Sizes Available/Dimensions

Item #	Type	Description
735600	Slimduct	75mm Straight Duct 2m
735601	Slimduct	99mm Straight Duct 2m
735603	Top Hat Covers	75mm Wall Tophat
735604	Top Hat Covers	99mm Wall Tophat
735605	Level Bends	75mm Level Bend
735606	Level Bends	99mm Level Bend
735607	Upright Bends	75mm Upright Bend
735608	Upright Bends	99mm Upright Bend
735609	45-90 Degree Bend	75mm 45-90 Bend
735611	Connectors	75mm Connector
735612	Connectors	99mm Connector
735613	Flexible Connection	75mm Flx Conect
735614	Flexible Connection	99mm Flx Conect
735615	Ceiling Eaves Cap	75mm Ceiling Eaves
735616	Ceiling Eaves Cap	99mm Ceiling Eaves
735617	T-Piece	75mm T-piece
735618	T-Piece	99mm T-piece
735620	Reducers	99-75mm Reducer
735621	Ceiling Cap	75mm Ceiling Cap

MIZU

*Complete range of air conditioning
trunking for any installation*



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PVC - Trunking - MyDuct

MyDuct Trunking

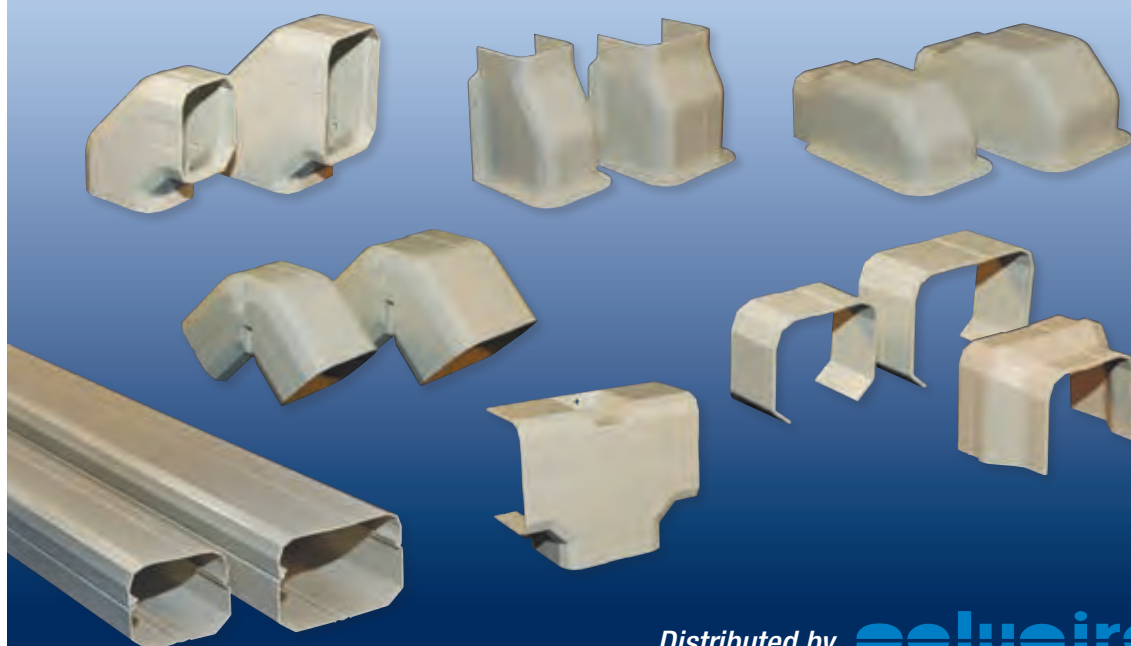
Sizes Available/Dimensions

Item #	Type	Description
735700	Slimduct	80mm, 2m
735701	Slimduct	110mm, 2m
735702	Ceiling Cap	80mm Ceiling Cap
735703	Ceiling Cap	110mm Ceiling Cap
735704	Wall Cap	80mm Wall Cap
735705	Wall Cap	110mm Wall Cap
735706	Level Bends	80mm, 90 Degree Bend
735707	Level Bends	110mm, 90 Degree Bend
735708	Upright Bends	80mm, 90 Degree Elbow
735709	Upright Bends	110mm, 90 Degree Elbow
735710	Connectors	80mm Joiner
735711	Connectors	110mm Joiner
735712	Flexible Connection	80mm Flex Joiner
735713	Flexible Connection	110mm Flex Joiner
735714	T-Piece	110mm T-Piece
735715	Reducers	80-110mm Reducer



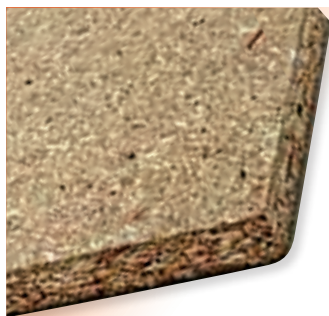
MYDUCT®
PRODUCTS

Plastic Trunking
Made in Australia



Distributed by **polyaire**

Support - Timber



Timber

Sizes Available/Dimensions					
Item #	Description	Thickness (mm)	Size		
			mm	inch	
864076	Pine Board		305 x 1200		12" x 47"
864979	Timber Stud		35 x 70 x 2400		1" x 3" x 95"
864980	Timber Stud - Termite Proof		35 x 70 x 2400		1" x 3" x 95"
864082	Timber Par	50	50 x 75 x 1500		2" x 3" x 59"
864357	Chipboard	18	1800 x 600		71" x 24"
864358	Chipboard	18	2400 x 600		94" x 24"

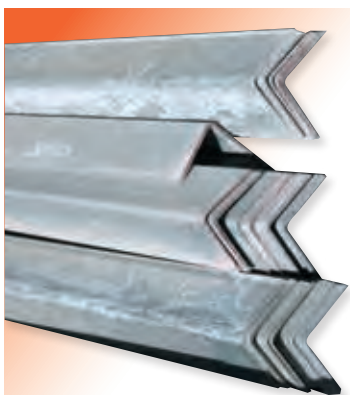
Support - Threaded Rods



Threaded Rod

Sizes Available/Dimensions					
Item #	Description	Size		Length	
		mm	inch	mm	inch
864539	Threaded Rod	10	0.4"	3000	118"
864540	Hexagonal Nut	10	0.4"	N/A	N/A
864541	Zinc Plated Washer	10	0.4"	N/A	N/A

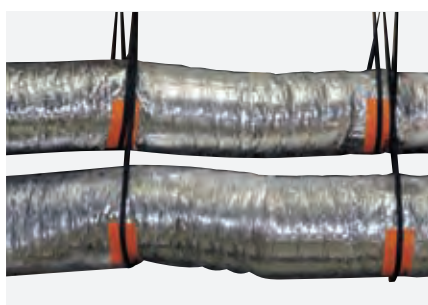
Support - Unit Angles



Unit Angle

Sizes Available/Dimensions					
Item #	Gauge mm	Angle Size		Length	
		mm	inch	mm	inch
864574	1.6	40 x 40	2" x 2"	2000	8"
862726	1.6	50 x 50	2" x 2"	1500	59"
862724	1.6	50 x 50	2" x 2"	2400	95"
862822	2	50 x 50	2" x 2"	2400	95"
862824	2.5	50 x 50	2" x 2"	1500	59"
862825	2.5	50 x 50	2" x 2"	2400	95"
862657	2	25 x 25	1" x 1"	700	28"
862725	1.6	50 x 50	2" x 2"	1200	47"
862823	2.5	50 x 50	2" x 2"	1200	47"

Support - Hanging Strap



Kwik-Flex is a flexible duct hanging/support system that is designed to meet the installation requirements of Australian Standard (AS/NZS) 4254.1 (2012) for use in all Commercial, Domestic and Industrial applications.

Faster

- One box (40 straps) can do 2-3 average sized domestic ducted system installs
- Lightweight
- Extremely easy to use / install

Smarter

- One size Kwik-Flex fits flexible duct from 100-600mm
- Can be used in both commercial and domestic applications
- Can be removed and reused

Cheaper

- Can be removed and reused
- Cost effective
- Saves time and labour costs

More Reliable

- UV Stable
- Provides a professional installation
- Guaranteed for 10 year

Stronger

- Each Kwik-Flex strap is tested to hold up 30kgs
- High tear strength

Hanging Strap

Sizes Available/Dimensions

Item #	Description
864395	HANGING KWIK STRAP DUCT
864396	HANGING KWIK STRAP CLIPS

Sealants & Glues



Sealants & Glues

Sizes Available/Dimensions

Item #	Description
664077	Silicone Sealant - Clear
664078	Silicone Sealant - Grey
664104	Duct Sealant 4 Litre
665897	PVC Sol Cement 100gm

Tapes

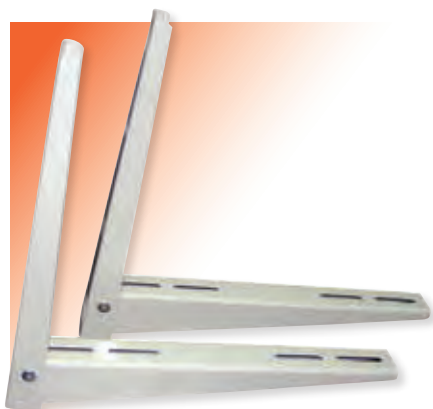


Tapes

Sizes Available/Dimensions

Item #	Description	Size	
		mm	inch
664184	Foil Tape Reinforced	48	2"
664185	Foil Tape Reinforced	75	3"
664350	Nitto Duct Tape - Black 30m	50	2"
664458	Nitto Duct Tape - Silver 30m	50	2"
664930	Tesa Tape Black - 4528	50	2"
664457	Nopi Duct Tape - Silver	50	2"

Unit Mounts - Brackets



Brackets

Sizes Available/Dimensions

Item #	Description	Size	
		mm	inch
865862	Wall Mounted Unit Bracket With Cross Member 120kg	400	16"
865863	Wall Mounted Unit Bracket With Cross Member 120kg	450	18"
865866	Wall Mounted Unit Bracket With Cross Member 120kg	550	22"
862734	Adjustable Roof Stand 1200 - Set Of 2 (Top Hat)	1200	47"
862735	Adjustable Roof Stand 1500 - Set Of 2 (Top Hat)	1500	59"
865865	Adjustable Roof Stand (Variable) 120Kg	500	22"
862885	Adj Rubber Stand	N/A	N/A



Turn to the Experts.

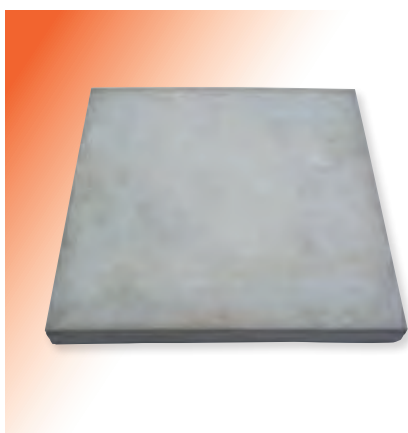


Inverter Hi-Wall
Split Systems



Distributed by **polyaire**

Unit Mounts - Slabs - Evocrete



Slabs - Concrete

Sizes Available/Dimensions

Item #	Size	
	mm	inch
864582	450 x 450	18" x 18"
864351	600 x 300	24" x 12"
864575	600 x 450	24" x 18"
865448	600 x 600	24" x 24"
865449	900 x 450	35" x 18"

Unit Mounts - Slabs - Polyslab



Slabs - Plastic

Sizes Available/Dimensions

Item #	Description	Size	
		mm	inch
234320	Plastic Slab	465 x 885	18" x 35"
234321	Plastic Slab	600 x 1160	24" x 46"
865451	Ezislabs	930 x 480	37" x 19"



EVO-CRETE™

Lightweight Utility Products



- EVO-CRETE** is a cellular mix creating a dynamic cellular structure with fibre reinforcing to provide extreme strength and durability
- EVO-CRETE** replaces inferior heavy concrete and non-structural polystyrene fillers
- LIGHTWEIGHT DESIGN** reduces Occupational Health and Safety manual handling risks associated with heavy concrete
- IMPACT RESISTANT** = reduced freight and transport damage
- FIRE PROOF / NON-COMBUSTIBLE**
- BOLTS LIKE CONCRETE** & drills like plaster
- CHEMICAL RESISTANT**
- 3 TIMES LIGHTER THAN CONCRETE**
- STRONG**
- LIGHTWEIGHT**
- 100% MADE IN AUSTRALIA**
- ECO-FRIENDLY**

Unit Mounts - Stands



Plastic Unit Stands - Plastic

Sizes Available/Dimensions				
Item #	Description	Size		
		mm	inch	
735515	Plastic Unit Stand (Pair) - 120kg	350	14"	
735516	Plastic Unit Stand (Pair) - 150kg	450	18"	

Unit Mounts - Vibration Mounts



Vibration Mounts

Sizes Available/Dimensions				
Item #	Description	Size		
		mm	inch	
867252	Waffle Pad Polyaire	450 x 450 x 7	17.7" x 17.7" x 0.28"	
864407	Embellton Springs	50 x 50 x 70	1.96" x 1.96" x 2.76"	
863000	Isolation Mount Kit	60 x 60 x 15	2.36" x 2.36" x 0.59"	



Vibration Mount Kits

Sizes Available/Dimensions				
Item #	Description	Size		
		mm	inch	
863000PK	Isolation Mount Kit Pack of 4	60 x 60 x 15	2.36" x 2.36" x 0.59"	





CONTROL SYSTEMS

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Features

- Option of 1 or 2 AirTouch panels
- Control 16 Air Conditioning Zones
- Control 1 or 2 Air Conditioning Units
- Timer control
- Smartphone app for remote monitoring, alerts and control
- Precise air control in 5% increments

Meet AirTouch version 3, Polyaire's latest Air Conditioning innovation.

AirTouch 3 is a fully integrated air conditioner controller, that lets the user control their ducted reverse cycle system's set point temperature, and manage up to 16 zones from 1 or 2 units. Featuring a stylish touch panel display and an easy to use interface, the AirTouch 3 is easy and fun to use, and can be personalised to any home, as zones can be managed and renamed as the user wants.

Control and Monitoring on the Go

AirTouch 3 features an updated smartphone app that can be installed on multiple iOS or Google Android devices. Just like the touch screen, the app lets users manage all their zones, and control the temperature. They can even turn on or off the system wherever they are – they can control, their air conditioner via WiFi at home or over a secure internet connection when away from home.

New to AirTouch 3 though, is the temperature alert function, which lets the user know if their house is getting to an uncomfortable temperature when they are away and sends an automatic alert with the option to turn on the climate control from their smart device.

New Individual Temperature Control (ITC)

AirTouch 3 is offered with optional Wireless Individual Temperature Control Sensors. Placed in each zone around the home they report temperatures back to AirTouch. In the event that a room is getting too warm or cold from external factors outside of the user's control, AirTouch will adjust the air flow in that area.

AirTouch 3 System

Item #	Description
657226	AirTouch 3 Touchpad
657225	AirTouch 3 Main Module
657227	AirTouch 3 Extension Board
657228	Wireless Temp Sensor
657154	NEAT 24V Transformer (2 Amp)
657095	Control Cable 12M
657096	Data Cable 12M
657110	Zm On/Off AC Cable
657211	Zm Gateway Cable

AirTouch 3 - Option for Gateway - Kits

Item #	Description
672130	AirTouch 2/3 Gateway Kit - Daikin
672131	AirTouch 2/3 Gateway Kit - Panasonic
672132	AirTouch 2/3 Gateway Kit - Fujitsu
672133	AirTouch 2/3 Gateway Kit - Mitsubishi Electric
672134	AirTouch 2/3 Gateway Kit - Mitsubishi Heavy
672135	AirTouch 2/3 Gateway Kit - Samsung
672136	AirTouch 2/3 Gateway Kit - Toshiba
672137	AirTouch 2/3 Gateway Kit - LG
672138	AirTouch 2/3 Gateway Kit - Hitachi

Optional Additional Touchpads

Item #	Description	1 Zone
657226	AirTouch 3 Touchpad	1
657096	Data Cable 12M	1
Full Kit Product Code:		672139

AirTouch 3 System Configuration

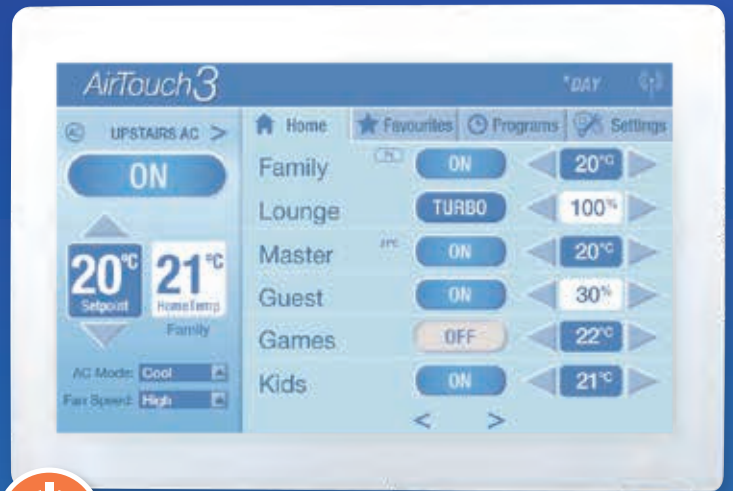
Item #	Description	1 Zone	2 Zones	3 Zones	4 Zones	5 Zones	6 Zones	7 Zones	8 Zones	9 Zones	10 Zones	11 Zones	12 Zones	13 Zones	14 Zones	15 Zones	16 Zones
657226	AirTouch 3 Touch Pad	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657225	AirTouch 3 Main Module	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657227	Airtouch 3 Extension Board	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
657154	NEAT 24V Transformer (2 Amp)	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
657095	Control Cable 12M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
657096	Data Cable 12M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Full Kit Product Code:		672140	672141	672142	672143	672144	672145	672146	672147	672148	672149	672150	672151	672152	672153	672154	672155

Meet AirTouch 3

A very smart air control system

With its stylish touch screen display and remote app control from your smart device, the all new AirTouch 3 is an integrated, all in one control for your air conditioning unit, and zone management system.

AirTouch provides more comfort and energy savings. The system features superior temperature monitoring technology, a user friendly interface and better airflow management for each zone than ever before.



AirTouch 3 Control Panel

Make sure your home is the perfect temperature before you arrive.



20°C

Remote control from your smart device, or a crystal clear HD touch screen display driven by climate control sensors to ensure everyone's comfort.



Control 16 Zones

AirTouch 3 was created to allow you to control up to 16 zones in your home which allows for maximum efficiency and cost savings as you will only need to heat or cool the rooms that you are using.



Designed from the start for smartphone and tablet integration

For personalised control of your air conditioning from anywhere. You can choose to receive temperature alerts away from home, and even activate a parental lock.



Turbo Zone Feature

AirTouch will take care of you when you have a large group of people over or need 1 room to cool down quickly by sending more air into a chosen zone faster.



Smart energy management

AirTouch 3 tracks your air conditioner's running time helping you to monitor and manage your energy usage.



Download on the
App Store



GET IT ON
Google Play

airtouch
airtouch.net.au

AirTouch 2



AirTouch 2 is a fully integrated solution which enables you to control your air conditioning system using a smart phone or tablet from anywhere, anytime. All you need is WiFi or 3G/4G network and you'll be able to manage the air flow and comfort levels of each room individually for maximum efficiency, comfort and potential energy cost savings.

Features

- Full control of your system from anywhere, anytime using WiFi or 3G/4G* with any mobile device.
- Provides On/Off control for most major brands like the previous AirTouch.
- Full air conditioner control of most major brands
- Able to control up to two AC units in the same system.
- Able to control up to 16 zones.
- Better resolution and improved response from the touch screen.
- Adaptive interface for different installation scenarios.
- New phone app with full AC control functionality.
- Simplified access for Internet control.
- Wall monitor and phone app which can be personalized.
- In built with Turbo zone function.
- 5-1-1 On/Off Timer Program.
- Periodic service reminder.

* WiFi and internet access will depend on router

Zonemaster - AirTouch 2 System

Item #	Description
657208	AirTouch 2 Touchpad
657209	AirTouch 2 Main Module
657210	AirTouch 2 Extension Board
657154	NEAT 24V Transformer (2 Amp)
657095	Control Cable 12M
657096	Data Cable 12M
657110	Zm On/Off AC Cable
657211	Zm Gateway Cable

AirTouch 2 - Option for Gateway - Kits

Item #	Description
672130	AirTouch 2 Gateway Kit - Daikin
672131	AirTouch 2 Gateway Kit - Panasonic
672132	AirTouch 2 Gateway Kit - Fujitsu
672133	AirTouch 2 Gateway Kit - Mitsubishi Electric
672134	AirTouch 2 Gateway Kit - Mitsubishi Heavy
672135	AirTouch 2 Gateway Kit - Samsung
672136	AirTouch 2 Gateway Kit - Toshiba
672137	AirTouch 2 Gateway Kit - LG

Optional Additional Touchpads

Item #	Description	1 Zone
657208	AirTouch 2 Touchpad	1
657096	Data Cable 12M	1
Full Kit Product Code:		672107

AirTouch 2 System Configuration

Item #	Description	1 Zone	2 Zone	3 Zone	4 Zone	5 Zone	6 Zone	7 Zone	8 Zone	9 Zone	10 Zone	11 Zone	12 Zone	13 Zone	14 Zone	15 Zone	16 Zone
657208	AirTouch 2 Touch Pad	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657209	AirTouch 2 Main Module	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657210	Airtouch2 Extension Board	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
657154	NEAT 24V Transformer (2 Amp)	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
657095	Control Cable 12M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
657096	Data Cable 12M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Full Kit Product Code:		672108	672109	672110	672111	672112	672113	672114	672115	672116	672117	672118	672119	672120	672121	672122	672123

ZoneTouch

Simple & efficient air distribution control.

Facilitates enhanced comfort and energy cost savings.

Features

- Control your system with up to 2 x 5" LCD touchpads
- Control each zone in 10% increments
- Control up to 16 zones
- Personalize your system labels
- Turbo zone function
- 5-1-1 On/Off Timer Program
- Periodic service reminder
- Ideal for new and existing homes



Zonemaster - ZoneTouch V2 System

Item #	Description
657196	ZoneTouch V2 Main Module
657197	ZoneTouch V2 Touch Pad
657180	Expansion Module + Lead & Plugs (9-16 Zone Kits Only)
657095	Control Cable 12m
657096	Data Cable 12m
657154	Neat 24V Transformer
657159	Data Cable Kit

ZoneTouch System Configuration

Item #	Description	1 Zone	2 Zones	3 Zones	4 Zones	5 Zones	6 Zones	7 Zones	8 Zones	9 Zones	10 Zones	11 Zones	12 Zones	13 Zones	14 Zones	15 Zones	16 Zones
657196	ZoneTouch V2 Main Module	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657197	ZoneTouch V2 Touch Pad	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
657180	Expansion Module + Lead & Plugs	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
657154	NEAT 24V Transformer	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
657095	Control Cable 12M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
657096	Data Cable 12M	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Full Kit Product Code: 672070 672071 672072 672073 672074 672075 672076 672077 672078 672079 672080 672081 672082 672083 672084 672085																	

Option for Bypass Control System

Item #	Description	1 Zone	2 Zones	3 Zones	4 Zones	5 Zones	6 Zones	7 Zones	8 Zones	9 Zones	10 Zones	11 Zones	12 Zones	13 Zones	14 Zones	15 Zones	16 Zones
657186	NEAT Supply Air Sensor with 7M lead	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Note: Motorised Dampers must be purchased separately

ZoneSwitch



A simple and attractive Zone Damper Control system.

Easily adjust the climate in individual areas of your home.

Comes complete as a kit with transformer and connecting cables to enable a complete installation.

Spill Zone ensures safety in your system.

Features

- New Touchpad with LED on buttons
- Two Touchpads option, direct to Mainboard, no further setup required
- Switchable and selectable spill zone
- See port numbers on Mainboard in the dark
- Turn off all LEDs on the touchpad in off season
- Ideally suited for ducted reverse cycle and ducted gas heating systems
- Easy installation with Polyaire Quick Fix Motorised Dampers
- Attractive, simple and uncluttered Touch Pad designed to suit most decors
- LED indicators to show the ON/OFF status of the zones
- Personalised zone labelling using stickers
- All zones automatically resume their original on/off state once powered up after power outage
- 24 Volt for easy and safe installation and maintenance

Zonemaster - ZoneSwitch V2 System

Item #	Description
657205	ZoneSwitch V2 Main Control Board
657206	ZoneSwitch V2 Touchpad
657154	Neat 24V Transformer
657095	Control Cable 12m (Centre latched)
657096	Data Cable 12m (Left latched)

Zonemaster - ZoneSwitch Two Zone System

Item #	Description
657194	Zonemaster 2 x ZoneSwitch Touchpad
657154	Neat 24V Transformer
657095	Control Cable 12m (Centre latched. 2 required per kit)
657195	Power Cable 12m
672032	ZoneSwitch Two Zone 24V Kit

Optional Additional Touchpads

Item #	Description	1 Zone
657206	ZoneSwitch V2 Touchpad	1
657096	Data Cable 12M (Left latched)	1

ZoneSwitch System Configuration

Item #	Description	1 Zone	2 Zones	3 Zones	4 Zones	5 Zones	6 Zones
657205	ZoneSwitch V2 Main Control Board	1	1	1	1	1	1
657206	ZoneSwitch V2 Touchpad	1	1	1	1	1	1
657154	NEAT 24V Transformer (2 Amp)	1	1	1	1	1	1
657095	Control Cable 12M (Centre latched)	1	2	3	4	5	6
657096	Data Cable 12M (Left latched)	1	1	1	1	1	1
Full Kit Product Code:		672041	672042	672043	672044	672045	672046

VAV - Single Zone



Features

- Maintaining room temperature within ± 1 °C depending on environment.
- Use of an on-board temperature sensor.
- User-friendly temperature and clock setting.
- Maximum air control override.
- Manual and programming modes.
- LCD indicator for parameters and status display.
- Programmable minimum ventilation.
- Easy cabling and commissioning.

Zonemaster - Single Zone VAV System

Item #	Description
657149 / 657153	Single Zone Touchpad
657155	NEAT 24V Transformer with plug
657186	NEAT Supply Air Sensor c/w 7M lead
657161	Control Cable 7M
Full Kit Product Code: 677187	

Components

Zonemaster - Components

Item #	Description
657153	VAV System - Zonemaster Single Zone
657154	VAV System - NEAT 24V Transformer
657155	NEAT 24V Transformer - Plug In
657157	NEAT DC Power Supply
657160	Data Cable 5m - Left Latched
657161	Control Cable 7m - Centre Latched
657162	Adaptor 6P6C Single, Left Latched (pack of 5)
657163	Adaptor 6P6C Single, Centre Latched (pack of 5)
657164	Adaptor 6P6C Double, Left Latched (pack of 5)
657165	Adaptor 6P6C Triple, Centre Latched (pack of 5)
657187	Adaptor 6P6C Double, Centre Latched (pack of 5)
552060	24V 1m Motor Cable
657166	Data Cable Roll
657167	Control Cable Roll
657168	Plugs 6P6C DEC, Left Latched (pack of 20)
657169	Plugs 6P6C (pack of 20) Centre Latched
657170	Crimping Tool 6P6C Centre and Left Latched
657171	Crimping Tool 6P6C Centre Latched
657172	Cable Tester Adaptor Kit
657186	Supply Air Sensor C/W 7 Lead
657089	Zonemaster Cable Tester
657095	Control Cable 12m
657096	Data Cable 12m
657094	Control Cable 3m

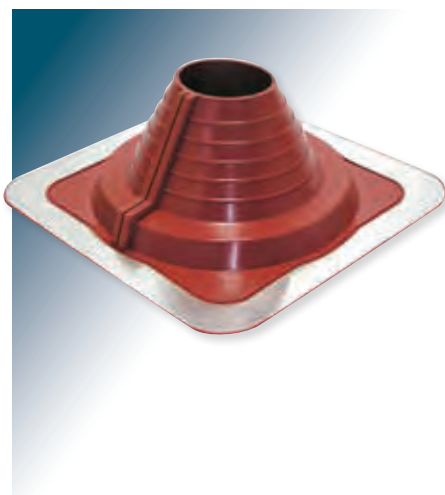




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Accessories - Aqua Seal

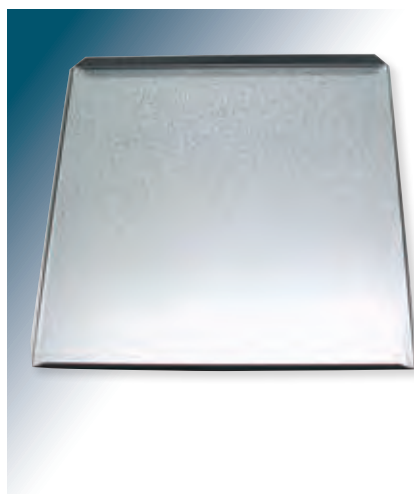


Aqua Seal

Sizes Available/Dimensions

Item #	Description	Colour	Size	
			mm	inch
865285	Aqua Seal Flashing Tile	Black	20-90	1" - 4"
865289	Aqua Seal Flashing Tin	Black	25-70	1" - 3"
865290	Aqua Seal Flashing Tin	Red	50-127	2" - 5"
865286	Lead Flashing Tile VLSS 2 Red	Red	12-125	0.5" - 5"

Accessories - Stop End

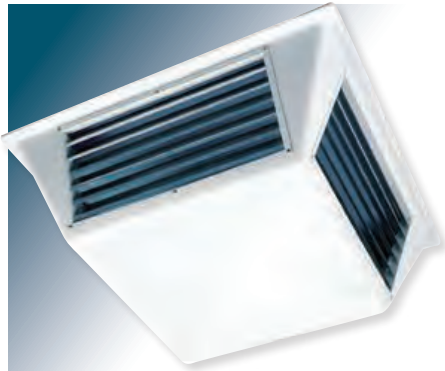


Stop End

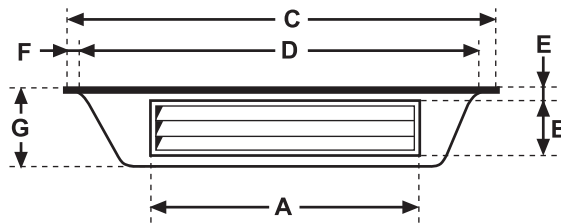
Sizes Available/Dimensions

Item #	Colour	Size	
		mm	inch
442924	Plain	550 x 550	22" x 22"

Accessories - Plenums



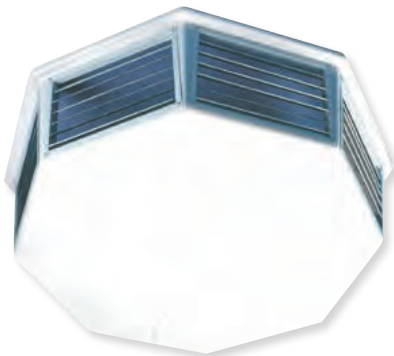
Plenum ACP 2
4 Way Metal



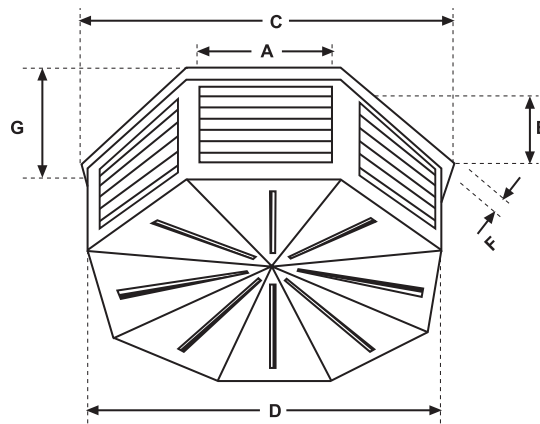
SIZE

ACP 1	No.1.	2500 L/sec
ACP 2	No.2	3889 L/sec
ACP 3	No.3.	5000 L/sec

ACP 1 & 2



Plenum ACP 3
8 Way Plastic



ACP 3

Dimensions

	ACP 1	ACP 2	ACP 3
A	560	560	350
B	155	270	240
C	780	890	1100
D	720	820	960
E	30	30	40
F	30	35	35
G	170	290	310

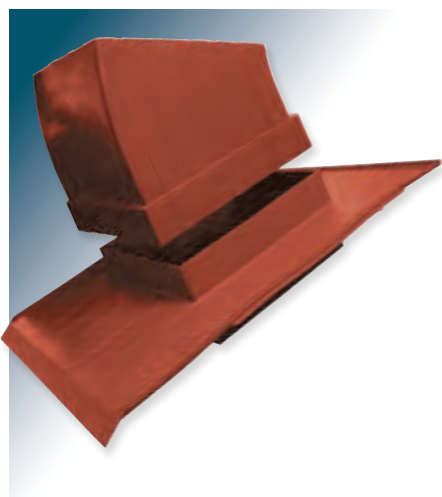
Evaporative Accessories - Plenums

Sizes Available	
Item #	Description
242624	Plenum ACP 1
242625	Plenum ACP 2
242626	Plenum ACP 3

Evaporative Accessories - Plates

Sizes Available	
Item #	Description
242627	Plenum Plates ACP 1
242628	Plenum Plates ACP 2
242629	Plenum Plates ACP 3

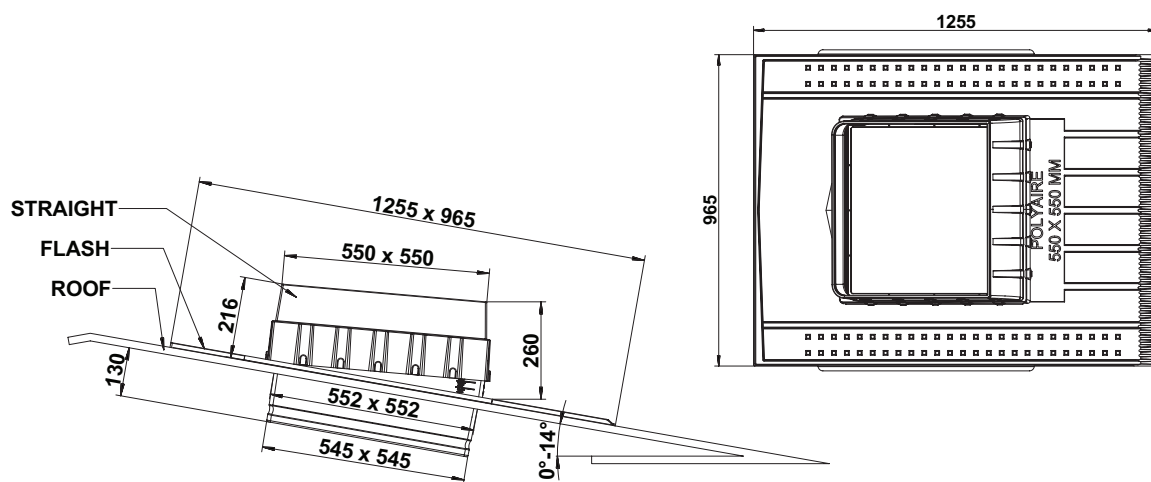
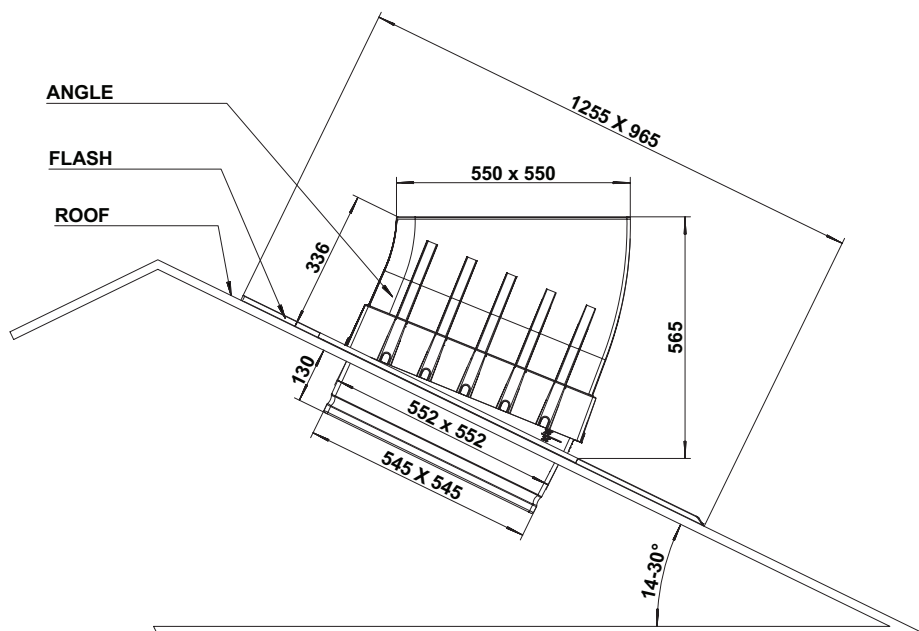
Drop-X



Polyaire's DROP-X system is made up of tested components specifically designed to overcome the shortcomings of products used in the past. Made from high quality engineering grade plastic it won't rust.

Features

- Watertight
- Fits all current Domestic Evap Units (550x550mm Outlet Size)
- Suitable for tiles and Colorbond roofs
- Engineering grade plastic will not rust
- Easy to install:
 - No lead flashing required
 - No sharp edges
 - Common roof angles marked on the side of the body to help proper alignment
 - Lighter to carry
 - Unique Tile securing lugs to help with tile replacement
 - Rigid design is easier to install
 - Only 3 pieces for quicker installation
- 10 Year Warranty



Drop-X

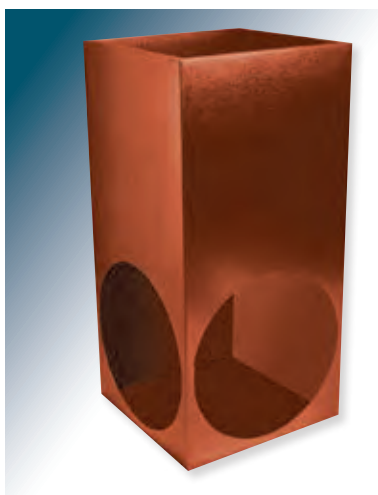
Drop-X Kits (4 Way, Includes Sock & Screw)

Sizes Available/Dimensions					
Item #	Description	Colour	mm	Size	
					inch
431100	Plastic Angled Evap Drop	Terracotta Red	550 x 1150	22" x 45"	
431101	Plastic Angled Evap Drop	Slate Grey	550 x 1150	22" x 45"	
431102	Plastic Angled Evap Drop	Beige	550 x 1150	22" x 45"	
431104	Plastic Straight Evap Drop	Terracotta Red	550 x 1150	22" x 45"	
431105	Plastic Straight Evap Drop	Slate Grey	550 x 1150	22" x 45"	
431106	Plastic Straight Evap Drop	Beige	550 x 1150	22" x 45"	

Drop-X Components

Sizes Available/Dimensions					
Item #	Description	Colour	mm	Size	
					inch
430660	Adaptor Fabric Airsock Insert 4 Way	N/A	N/A	N/A	
430662	Adaptor Fabric Airsock Insert 3 Way	N/A	N/A	N/A	
430661	Tek 8 x 45 30 pack	N/A	N/A	N/A	
430100	Plastic Evap Drop Angle	Terracotta Red	550 x 550	22" x 22"	
430101	Plastic Evap Drop Angle	Slate Grey	550 x 550	22" x 22"	
430102	Plastic Evap Drop Angle	Beige	550 x 550	22" x 22"	
430200	Plastic Evap Drop Straight	Terracotta Red	550 x 550	22" x 22"	
430201	Plastic Evap Drop Straight	Slate Grey	550 x 550	22" x 22"	
430202	Plastic Evap Drop Straight	Beige	550 x 550	22" x 22"	
430300	Plastic Evap Drop Flashing	Terracotta Red	550 x 550	22" x 22"	
430301	Plastic Evap Drop Flashing	Slate Grey	550 x 550	22" x 22"	
430302	Plastic Evap Drop Flashing	Beige	550 x 550	22" x 22"	

Evaporative Droppers



Features

- Comes in Colourbond or unassembled.
- Available in various colours – slate grey, beige, green, red, galvanised and plain.
- Available in 550 x 1150, 550 x 900 and 550 x 550 sizes.
- Flashing kits are available to suit tile or Colour bond roof installations.
- Fits all domestic evaporative cooling unit makes (Not Contour)

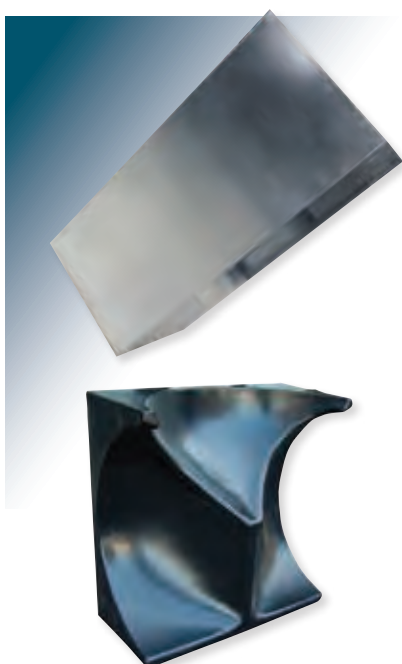
Evaporative Droppers - Colourbond

Sizes Available/Dimensions				
Item #	Description	Colour	Size	
			mm	inch
442695		Plain	550 SQ x 1150L	22" x 45"
449046	Unassembled	Slate Grey	550 SQ x 550 L	22" x 22"
449045	Unassembled	Beige	550 SQ x 550 L	22" x 22"
449047	Unassembled	Green	550 SQ x 550 L	22" x 22"
449048	Unassembled	Red	550 SQ x 550 L	22" x 22"
442741	Assembled	Woodland Grey	550 SQ x 900 L	22" x 35"
442742	Assembled	Manor Red	550 SQ x 900 L	22" x 35"
442743	Assembled	Paperbark	550 SQ x 900 L	22" x 35"
442744	Assembled	Cottage Green	550 SQ x 900 L	22" x 35"
442748	Assembled	Galvanised	550 SQ x 1150L	22" x 45"
442749	Assembled	Woodland Grey	550 SQ x 1150L	22" x 45"
442750	Assembled	Manor Red	550 SQ x 1150L	22" x 45"
442751	Assembled	Paperbark	550 SQ x 1150L	22" x 45"
442752	Assembled	Cottage Green	550 SQ x 1150L	22" x 45"

Evaporative Droppers - Unassembled

Sizes Available/Dimensions				
Item #	Description		Size	
			mm	inch
449076	Galvanised		550 x 550	22" x 22"
449077	Colourbond		550 x 550	22" x 22"

Evaporative Droppers - Superflow



Superflow Droppers - Galvanised

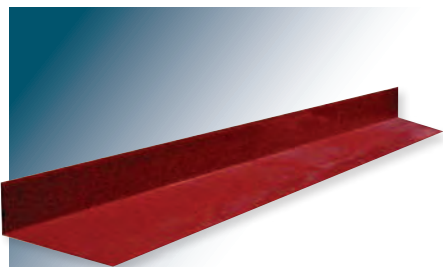
Sizes Available/Dimensions				
Item #	Description		Size	
			mm	inch
442679	Half Insulated		550 x 1150	22" x 45"
442681	Plain		550 x 1150	22" x 45"

Ensures an equal smooth quiet flow into all the ducts and helps manage an even air flow to all parts of the house.

Superflow - Plastic Insert

Sizes Available/Dimensions				
Item #	Description		Size	
			mm	inch
430656	3 Way PI		545 x 545	22" x 22"
430657	4 Way PI		545 x 545	22" x 22"

Evaporative Dropper Flashings



Features

- Comes in pre-painted aluminium, steel, zincalume, stainless steel and copper.
- Used to enhance the appearance of all gutter, roofing and building styles.
- Available in various attractive colours and sizes.

Roof Flashings - Dektite

Sizes Available/Dimensions

Item #	Colour	Size	
		mm	inch
865260	Tin	550 x 550	22" x 22"
865261	Plain	550 x 550	22" x 22"
865262	Green	550 x 550	22" x 22"
865263	Red	550 x 550	22" x 22"
865264	Grey	550 x 550	22" x 22"

Roof Flashings - Length (Back Flashing)

Sizes Available/Dimensions

Item #	Colour	Size	
		mm	inch
469095	Galvanised	65 x 300 x 900	3" x 12" x 35"
469096	Woodland Grey	65 x 300 x 900	3" x 12" x 35"
469098	Paperbark	65 x 300 x 900	3" x 12" x 35"
469110	Galvanised	60 x 140 x 2400	2" x 6 x 95"
469111	Woodland Grey	60 x 140 x 2400	2" x 6 x 95"
469112	Manor Red	60 x 140 x 2400	2" x 6 x 95"
469113	Paperbark	60 x 140 x 2400	2" x 6 x 95"
469114	Cottage Green	60 x 140 x 2400	2" x 6 x 95"
469097	Manor Red	65 x 300 x 900	3" x 12" x 35"
469099	Cottage Green	65 x 300 x 900	3" x 12" x 35"

4 Piece Roof Flashings - Square

Sizes Available/Dimensions

Item #	Colour	Size	
		mm	inch
469014	Tin Galvanised	550 x 550	22" x 22"
469075	Beige Tile	550 x 550	22" x 22"
469076	Slate Grey Tile	550 x 550	22" x 22"
469077	Green Tile	550 x 550	22" x 22"
469078	Red Tile	550 x 550	22" x 22"
469070	Beige Tin	550 x 550	22" x 22"
469071	Slate Grey Tin	550 x 550	22" x 22"
469072	Green Tin	550 x 550	22" x 22"
469073	Red Tin	550 x 550	22" x 22"
469021	Galvanised Tile	550 x 550	22" x 22"
469020	Colourbond Tin	550 x 550	22" x 22"

Turn Out Droppers - Colourbond



Turn Out Droppers - Contour

Sizes Available/Dimensions			
Item #	Colour	Size mm	Size inch
442693	Galvanised	550 SQ x 900 L	22" x 35"
442694	Insulated	550 SQ x 900 L	22" x 35"
442740	Galvanised	550 SQ x 900 L	22" x 35"
442741	Woodland Grey	550 SQ x 900 L	22" x 35"
442742	Manor Red	550 SQ x 900 L	22" x 35"
442743	Paperbark	550 SQ x 900 L	22" x 35"
442744	Cottage Green	550 SQ x 900 L	22" x 35"
442749	Woodland Grey	550 SQ x 1150 L	22" x 46"
442748	Galvanised	550 SQ x 1150 L	22" x 46"
442749	Woodland Grey	550 SQ x 1150 L	22" x 46"
442750	Manor Red	550 SQ x 1150 L	22" x 46"
442751	Paperbark	550 SQ x 1150 L	22" x 46"
442752	Cottage Green	550 SQ x 1150 L	22" x 46"

Turn Out Droppers - Plain

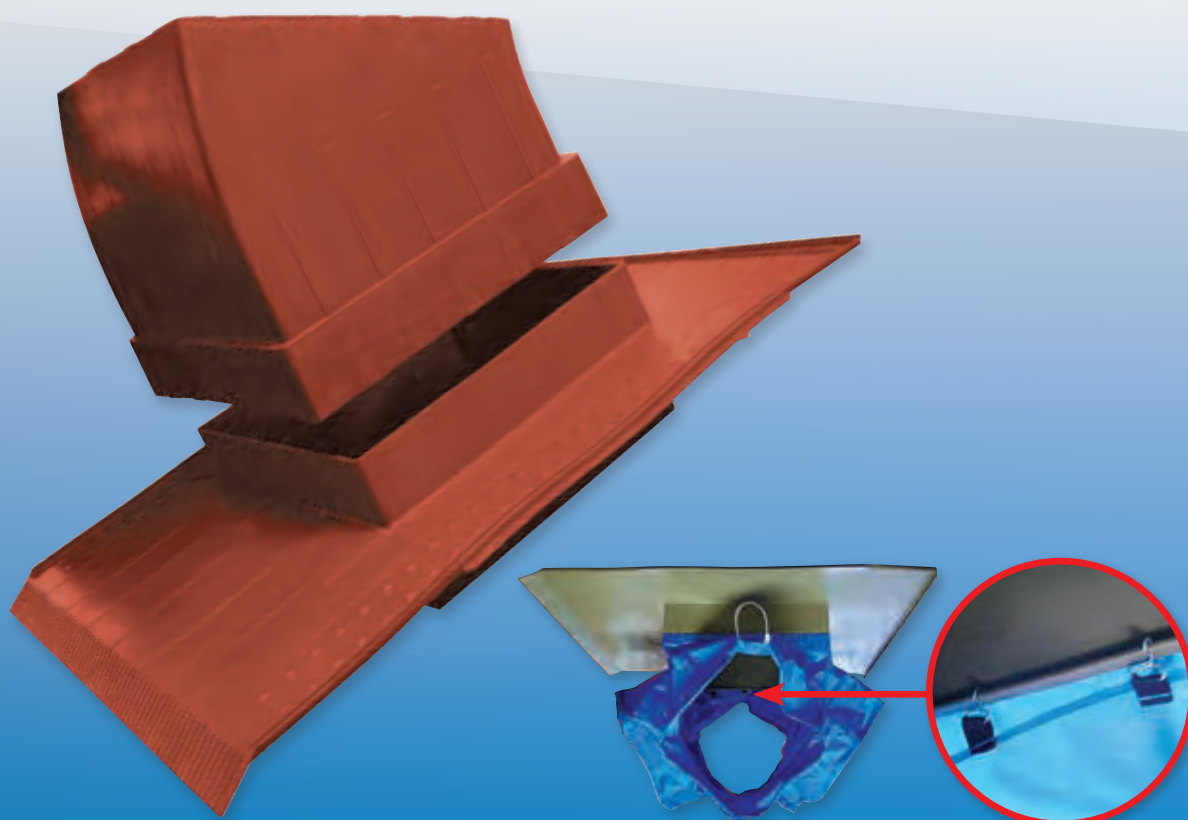


Turn Out Droppers - Galvanised

Sizes Available/Dimensions		
Item #	Size mm	Size inch
444211	550 Square x 1000 Long	22" Square x 39" Long
444212	550 Square x 1200 Long	22" Square x 47" Long
449183	550 Square x 1500 Long	22" Square x 59" Long

Drop-X

Evaporative Air Conditioner Dropper System
Angle/ Straight/ Flash/ Sock

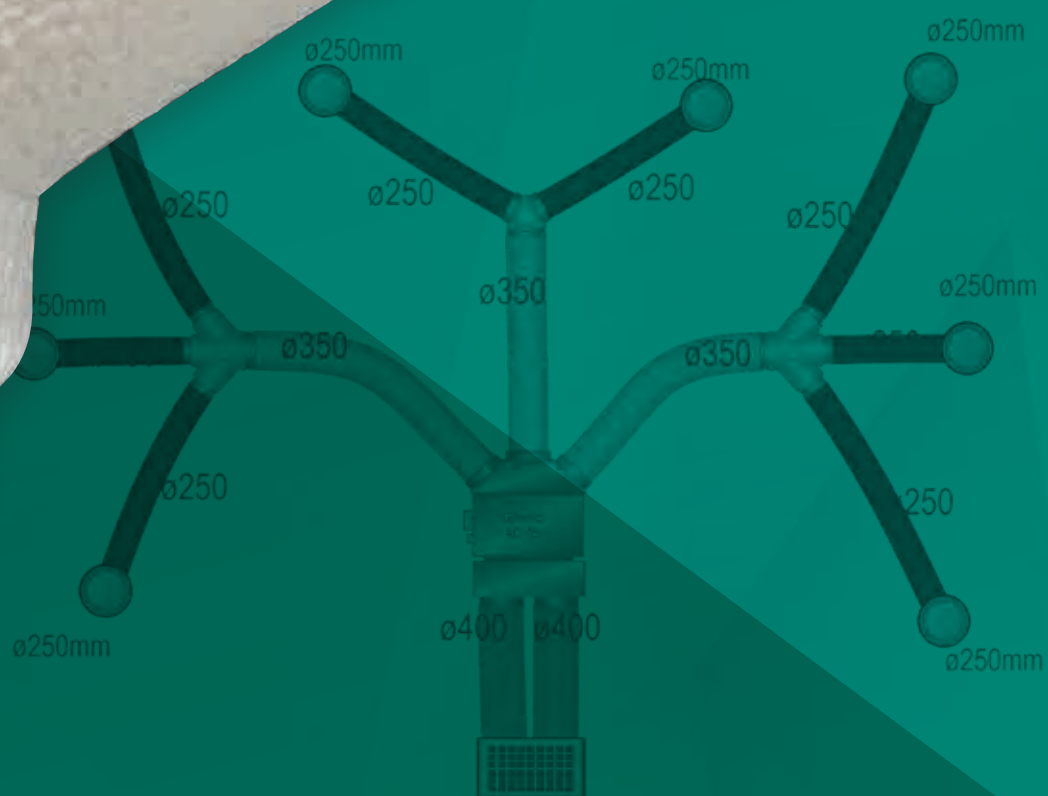


The Drop-X from Polyaire was developed to provide a quick, easy and watertight solution to the fitment of evaporative coolers.

The Drop-X is made up of three components which are far simpler to install than the traditional metal dropper. The duct is fitted to a specially designed sock which is hooked into the base of the dropper and held tight with a no slip tension band that fits into a groove on the dropper body.

*Available from your local Polyaire branch.
 See www.polyaire.com.au for further details*

You can find more information about these products on Page 34





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'Y' FITTINGS



Easily click damper or
spigot direct to Y Fitting



2-STEP
REDUCER

or
REDUCER

or
SPIGOT

EASY TO SWAP
COMPONENTS



Modular Design

Interchange spigots
and reducers easily.



Easy and Fast

Simple solution to install inline
dampers. No need to cut short
lengths of duct.



Branch Fittings - Modular 'Y'



'Y' Fitting Configuration



A New Standard

The New Polyaire Quick Connect 'Y' Fittings save air conditioning professionals time with their installations with a click together mechanism that is faster and more reliable.

They also give the end user a more comfortable home with an air conditioning system that runs more efficiently than ever. This can result in a lower power bill and is better for the environment.

- Suitable for 150 to 450mm Duct.



Smarter

Smart modular design allows installers to connect and change dampers, reducers and collars with just a few short clicks.



Faster

Save time with new 'Click on' design. Now installers will no longer have to cut down spigots for duct; and can also eliminate the cutting of duct for dampers.

Reducers come in both 1 or 2 step down sizes.



Stronger

Built to last, made from engineered plastic and insulated with polyurethane.



More Reliable

New design provides a better connection between fittings and flexible duct.

No air leakage which means the air conditioning system will maintain constant pressure and stable temperature.

Ordering Details

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

Ordering Code	Duct Inlet (ømm)	Compatible Damper*	Duct Outlet 1 (ømm)	Compatible Damper*	Duct Outlet 2 (ømm)	Compatible Damper*
Y151515	150	D200	150	D150	150	D150
Y201515	200	D200	150	D150	150	D150
Y202015	200	D250	200	D200	150	D200
Y202020	200	D250	200	D200	200	D200
Y251515	250	D250	150	D200	150	D200
Y252015	250	D250	200	D200	150	D200
Y252020	250	D250	200	D200	200	D200
Y252520	250	D300	250	D250	200	D250
Y252525	250	D300	250	D250	250	D250
Y301515	300	D300	150	D250	150	D250
Y302015	300	D300	200	D250	150	D250
Y302020	300	D300	200	D250	200	D250
Y302515	300	D300	250	D250	150	D250
Y302520	300	D300	250	D250	200	D250
Y302525	300	D300	250	D250	250	D250
Y303025	300	D350	300	D300	250	D300
Y303030	300	D350	300	D300	300	D300

*Ordering Dampers

D200

24 = 24V Plug In
OR
24L = 24V With Lead
OR
240 = 240V

Examples:
[D20024]
[D20024L]
[D200240]

Ordering Code	Duct Inlet (ømm)	Compatible Damper*	Duct Outlet 1 (ømm)	Compatible Damper*	Duct Outlet 2 (ømm)	Compatible Damper*
Y352020	350	D350	200	D300	200	D300
Y352520	350	D350	250	D300	200	D300
Y352525	350	D350	250	D300	250	D300
Y353020	350	D350	300	D300	200	D300
Y353025	350	D350	300	D300	250	D300
Y353030	350	D350	300	D300	300	D300
Y353530	350	D400	350	D350	300	D350
Y353535	350	D400	350	D350	350	D350
Y402525	400	D400	250	D350	250	D350
Y403025	400	D400	300	D350	250	D350
Y403030	400	D400	300	D350	300	D350
Y403525	400	D400	350	D350	350	D350
Y403530	400	D400	350	D350	300	D350
Y403535	400	D400	350	D350	350	D350
Y404035	400	-	400	D400	350	D400
Y404040	400	-	400	D400	400	D400
Y453030	450	-	300	D400	300	D400
Y453530	450	-	350	D400	300	D400
Y453535	450	-	350	D400	350	D400
Y454030	450	-	400	D400	300	D400
Y454035	450	-	400	D400	350	D400
Y454040	450	-	400	D400	400	D400

QUICK CONNECT
AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

QUICK CONNECT DAMPER (QCD)



EASY TO SWAP
COMPONENTS



24V or 240V Motor

Option of 24/240V Motor
on all sizes; with 24V
available with lead or
as a plug in option.



**Click in a damper to add
a new zone in seconds!**

Setting up a zoning system has
never been faster than with Polyaire's
Quick Connect Dampers.

Industry leading one piece injection moulded plastic
construction eliminates air loss and creates strong
seals with the damper blade inside to prevent airflow
when a zone is not in use.



Branch Fittings - Quick Connect Damper 'QCD'



Setting up a zoning system has never been easier, faster, or more reliable than with Polyaire's Quick Connect In-line Dampers. Part of Polyaire's New Quick Connect Air Conditioning Fittings range.

- 150 to 400mm diameter
- High Torque 24V or 240V Motor



Stronger

Built to last from industry leading injection moulded plastic.



Faster

Save time with an easy click-on attachment to spigots and fittings.



Smarter

Industry leading injection moulded plastic construction prevents air loss and helps create strong seals with the damper blade inside to prevent airflow when a zone is not in use.

Ordering Details

24V Dampers

With Lead		No Lead	
Ordering Code	Diameter (Ømm)	Ordering Code	Diameter (Ømm)
D15024L	150	D15024	150
D20024L	200	D20024	200
D25024L	250	D25024	250
D30024L	300	D30024	300
D35024L	350	D35024	350
D40024L	400	D40024	400

240V Dampers

With Lead	
Ordering Code	Diameter (Ømm)
D150240L	150
D200240L	200
D250240L	250
D300240L	300
D350240L	350
D400240L	400

D 150 24 L

Specify 'D' Damper

Select Width (mm)

150	150mm
200	200mm
250	250mm
300	300mm
350	350mm
400	400mm

Select Voltage

24	24V
240	240V

Specify if Lead Required

Blank	Plug In
L	Lead Required



Branch Fittings - Quick Connect Branch Take Off (BTO)



- Suitable for 150 to 400mm Duct.

Ordering Details

Ordering Code	Duct Inlet (ømm)	Compatible Damper*	Duct Outlet 1 (ømm)	Compatible Damper*	Duct Outlet 2 (ømm)	Compatible Damper*
B151515	150	D200	150	D150	150	D150
B201515	200	D200	150	D150	150	D150
B202015	200	D250	200	D200	150	D150
B251515	250	D250	150	D200	150	D150
B252015	250	D250	200	D200	150	D150
B252515	250	D300	250	D250	150	D200
B252020	250	D300	200	D250	200	D200
B252520	250	D300	250	D250	200	D200
B302020	300	D300	200	D250	200	D200
B302515	300	D300	250	D250	150	D200
B302520	300	D300	250	D250	200	D200
B302525	300	D350	250	D300	250	D250
B303015	300	D350	300	D300	150	D250
B303020	300	D350	300	D300	200	D250
B303025	300	D350	300	D300	250	D250
B352525	350	D350	250	D300	250	D250
B353015	350	D350	300	D300	150	D250
B353020	350	D350	300	D300	200	D250
B353025	350	D350	300	D300	250	D250
B353030	350	D400	300	D350	300	D300
B353520	350	D400	350	D350	200	D300
B353525	350	D400	350	D350	250	D300
B353530	350	D400	350	D350	300	D300
B403030	400	D400	300	D350	300	D300
B403520	400	D400	350	D350	200	D300
B403525	400	D400	350	D350	250	D300
B403530	400	D400	350	D350	300	D300

Branch Take Off (BTO)



*Ordering Dampers

D200

24 = 24V Plug In
 OR
 24L = 24V With Lead
 OR
 240 = 240V

Examples:

[D20024]

[D20024L]

[D200240]



Branch Fittings - Quick Connect Double Branch Take Off (DBTO)

- Suitable for 150 to 400mm Duct.

Ordering Details

Ordering Code	Duct Inlet (ømm)	Compatible Damper*	Duct Outlet 1 (ømm)	Compatible Damper*	Duct Outlet 2 (ømm)	Compatible Damper*	Duct Outlet 3 (ømm)	Compatible Damper*
DB20151515	200	D200	150	D150	150	D150	150	D150
DB20201515	200	D250	200	D200	150	D150	150	D150
DB25151515	250	D250	150	D200	150	D150	150	D150
DB25201515	250	D250	200	D200	150	D150	150	D150
DB25202015	250	D300	200	D250	200	D200	150	D200
DB25202020	250	D300	200	D250	200	D200	200	D200
DB25251515	250	D300	250	D250	150	D200	150	D200
DB25252020	250	D300	250	D250	200	D200	200	D200
DB30202015	300	D300	200	D250	200	D200	150	D200
DB30202020	300	D300	200	D250	200	D200	200	D200
DB30251515	300	D300	250	D250	150	D200	150	D200
DB30252015	300	D300	250	D250	200	D200	150	D200
DB30252020	300	D300	250	D250	200	D200	200	D200
DB30252525	300	D350	250	D300	250	D250	250	D250
DB30301515	300	D350	300	D300	150	D250	150	D250
DB30302015	300	D350	300	D300	200	D250	150	D250
DB30302020	300	D350	300	D300	200	D250	200	D250
DB30302525	300	D350	300	D300	250	D250	250	D250
DB35252020	350	D350	250	D300	200	D250	200	D250
DB35252525	350	D350	250	D300	250	D250	250	D250
DB35301515	350	D350	300	D300	150	D250	150	D250
DB35302015	350	D350	300	D300	200	D250	150	D250
DB35302020	350	D350	300	D300	200	D250	200	D250
DB35302525	350	D350	300	D300	250	D250	250	D250
DB35303030	350	D400	300	D350	300	D300	300	D300
DB35352020	350	D400	350	D350	200	D300	200	D300
DB35352525	350	D400	350	D350	250	D300	250	D300
DB35353030	350	D400	350	D350	300	D300	300	D300
DB40302525	400	D400	300	D350	250	D300	250	D300
DB40303030	400	D400	300	D350	300	D300	300	D300
DB40352020	400	D400	350	D350	200	D300	200	D300
DB40352525	400	D400	350	D350	250	D300	250	D300
DB40353030	400	D400	350	D350	300	D300	300	D300

***Ordering Dampers**

D200

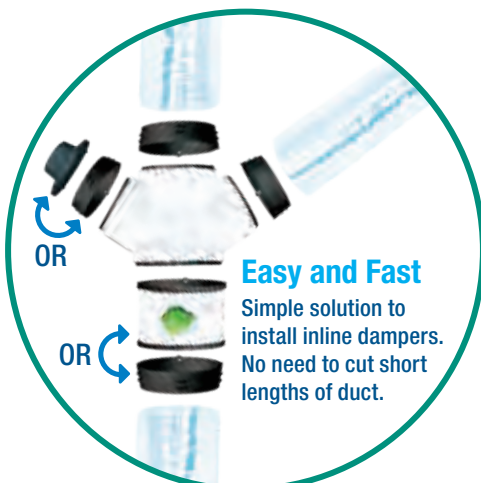
24 = 24V Plug In
OR
24L = 24V With Lead
OR
240 = 240V

Examples:

[D20024]
[D20024L]
[D200240]



Double Branch Take Off (DBTO)



Branch Fittings - Plastic Reducer



Features

- Made from high quality Polyethylene.
- Designed for easier use and more secure duct connections.
- Available in a variety of sizes.

Polyaire Reducers

Sizes Available/Dimensions

Item #	Size	
	mm	inch
430634	200 - 150	8" - 6"
430635	250 - 200	10" - 8"
430636	300 - 250	12" - 10"
430637	350 - 300	14" - 12"
430638	400 - 350	16" - 14"
430639	450 - 400	18" - 16"
430640	500 - 450	20" - 18"

Dampers - Metal

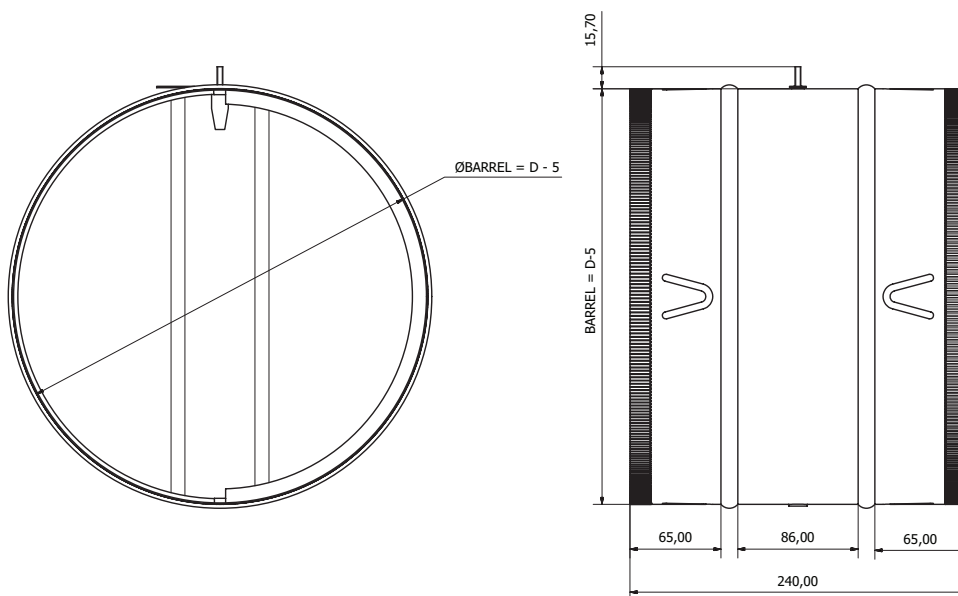


Features

- Designed for volume control adjustment in flexible duct runs.
- Available in sizes 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm and 500mm.
- Construction is from galvanised steel with provision for flexible duct connection on both sides.

Polyaire Damper - Metal - Insulated

Sizes Available/Dimensions			
Item #	Size		inch
	mm		
549154	150		6"
549155	200		8"
549156	250		10"
549157	300		12"
549158	350		14"
549159	400		16"
549160	450		18"
549161	500		20"



Dampers - Quick Fix 24V



To suit all Zonemaster zone control systems

Features

- Employs a unique design to minimise the chance of duct leaks due to faulty attachment.
- The duct is attached to each spigot using special cable ties. Each spigot has a slightly positive taper with a pronounced ridge at the edge. This means that the cable tie will become tighter the closer it gets to the edge, minimising the chances of duct detachment.

Quick Fix Motor Damper - Plastic - Insulated 24V (Green)

Sizes Available/Dimensions			
Item #	mm	Size	inch
532070	150		6"
532071	200		8"
532072	250		10"
532073	300		12"
532074	350		14"
532075	400		16"

Dampers - Quick Fix 240V



To suit 240 volt switch plate zone control systems

Quick Fix Motor Damper - Plastic - Insulated - 240V (White)

Sizes Available/Dimensions			
Item #	mm	Size	inch
532060	150		6"
532061	200		8"
532062	250		10"
532063	300		12"
532064	350		14"
532065	400		16"

Dampers - Quick Fix VAV 24V



To suit the Zonemaster Single Zone VAV zone control systems

Quick Fix Motor Damper - Plastic - Insulated 24V VAV (Yellow)

Sizes Available/Dimensions			
Item #	mm	Size	inch
532080	150		6"
532081	200		8"
532082	250		10"
532083	300		12"
532084	350		14"
532085	400		16"

Dampers - Cables

Polyaire Premade Motor Cable

Description	
552060	24V 1M Motor Cable - Plug in to 3 wire
552065	24V 12M Motor Cable - Plug in to 3 wire

Dampers - Quick Fix Manual



Features

- 'Hi-Torque' folded metal blade and shaft for extra strength and long life
- Metal blade position indicator for ease of use and adjustment of system
- Positive locking mechanism eliminates movement of blade under load
- Light strong plastic casing for ease of assembly and long life
- Outside insulation protects and insulates
- Unique No-Slip cable tie attachment
- Squared linkages can't slip under load
- 6 sizes - 150/200/250/300/350/400mm
- 5 year warranty

Quick Fix Manual Damper - Plastic

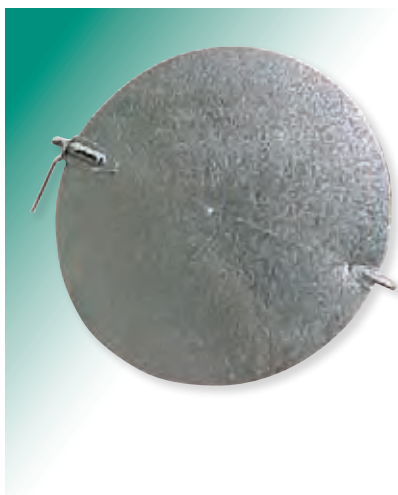
Sizes Available/Dimensions			
Item #	mm	Size	
		inch	
532092	250	10"	
532093	300	12"	
532094	350	14"	
532095	400	16"	



Manual Damper - Plastic

Sizes Available/Dimensions			
Item #	mm	Size	
		inch	
532090	150	6"	
532091	200	8"	

Metal Blades



Features

- Suited for fitting to Circular Spigots.
- Available in sizes 150, 200, 250, 300, 350, 400, 450 and 500mm diameter.
- Construction is from Galvanised steel blade with diecast damper kits.
- Can be fitted retrospectively to existing installations either in circular take off spigots or entry spigots to Cushion Boxes and Plenums.

Volume Damper Blades

Sizes Available/Dimensions

Item #	Size	
	mm	inch
542606	150	6"
542607	200	8"
542608	250	10"
542609	300	12"
542610	350	14"
542611	400	16"
542612	450	18"
542613	500	20"

Quicker & better installations with the: ***Polyaire Diffusion Fitting (PDF)***



Folded Metal Damper Blades

Unique Duct attachment reduces chance of duct leaking or detaching.

The Polyaire Diffusion Fitting employs a unique design to minimise the chance of duct leaks due to faulty attachment.

The duct is attached to each spigot using special cable ties (draw bands)

Each spigot has a slightly positive taper with a pronounced ridge at the edge. This means that the drawband will become tighter, the closer it gets to the edge, minimising the chances of duct detachment.



Polyaire Diffusion Fitting



The Polyaire Diffusion Fitting (PDF) is a one piece blow moulded fitting coated with closed cell foam insulation.

The PDF is designed to split the airflow from the fan coil into 2, 3 or 4 separate ducts and allow 'tuning' of the flow from a central point. (this greatly reduces installation time).

The PDF also allows convenient fitment of motorized dampers and/or a Zone Control system with the main module attached to the PDF and motorized Dampers surrounding this. All components are in one place for ease of wiring and maintenance

Features

- The outlets are clearly numbered in the moulding to prevent confusion.
- Inlet Dimension: 350 or 400mm diameter
- Outlet Dimensions: 250 or 300mm diameter
- The fitting is designed to be a 2, 3 or 4 outlet fitting and each outlet can be managed via a manual or electronic damper. The motors are compatible with Zonemaster systems.
- Folded metal damper blades for extreme strength and pressure resistance
- Duct fitting is via Duct Ties/Draw bands
- The product must be pre-ordered. (See Order Form)

Benefits

- Saves considerable installation time
- Fully insulated
- Leak proof fitting
- Allows quick tuning of system from a central point
- Allows easy fitment of Zonemaster motorised damper systems
- Decreases chance of duct blow off due to faulty taping of duct
- Easier, quicker and more secure joining (with cable ties)
- Easier ongoing maintenance

Polyaire Diffusion Fitting - Plastic - Insulated

Sizes Available/Dimensions	
Item #	Description
532050	Damper Plastic PDF Insulated Configuration



Made for use with flexible ducts for quick and secure installation to location.

Duct Ties

Sizes Available/Dimensions			
Item #	Size		
	mm		inch
664460	800		32"
664461	1000		39"
664462	1350		53"

Damper Motors



Damper Motors

Sizes Available/Dimensions	
Item #	Description
552049	Motor 24V Plug Green MP
552030	Motor 240V + Lead White
552031	Motor 24V D/D + Lead Green
554652	Honeywell Damper Motor 447B1005
554128	Motor Direct Operating System EIRIEHT240
554628	Belimo LM230 240V 4Nm

Quick Fix Fitting



Figure 1
Quick Fix Fitting



Figure 2
Quick Fix Fitting 'DB' Fitting



Figure 3
Quick Fix Fitting 'Y' Fitting

The Polyaire Quick Fix Fitting is a modular system designed to provide a two or four way air distributor incorporating dampers to control air flow to individual duct runs.

The system can be combined with motorised dampers which can be effectively operated through a zone control system such as Zonemaster by Polyaire.

Quick Fix Fitting - Plastic - Insulated - Components

Sizes Available/Dimensions				
Item #	Description	Type	Size mm	Size inch
340231	Quick Fix DB	(Half - 2 required)	400/350/300/300	16"/14"/12"/12"
340241	Quick Fix DB	(Half - 2 required)	450/400/350/350	18"/16"/14"/14"
340303	Quick Fix Y	(Half - 2 required)	350/300/300	14"/12"/12"
340304	Quick Fix Y	(Half - 2 required)	400/350/350	16"/14"/14"
340332	Quick Fix PL Reducer	(Half - 2 required)	300-250	12"-10"
340333	Quick Fix PL Reducer	(Half - 2 required)	350-300	14"-12"
340334	Quick Fix PL Reducer	(Half - 2 required)	400-350	16"-14"
340382	Quick Fix Spigot	(Half - 2 required)	250	12"
340383	Quick Fix Spigot	(Half - 2 required)	300	12"
340384	Quick Fix Spigot	(Half - 2 required)	350	14"
340385	Quick Fix Spigot	(Half - 2 required)	400	16"
340386	Quick Fix Spigot	(Half - 2 required)	450	18"
340394	Quick Fix Ring		350	14"
340395	Quick Fix Ring		400	16"

Quick Fix Fitting - Complete Kits configured as per Figure 1

Sizes Available/Dimensions	
Item #	Description
340001	Quick Fix 400 Assembly
340002	Quick Fix 450 Assembly

Quick Fix Fitting - Complete Kits configured as per Figure 2

Sizes Available/Dimensions	
Item #	Description
340010	Quick Fix DBTO 400/350 Assembly
340011	Quick Fix DBTO 450 Assembly

Quick Fix Fitting - Complete Kits configured as per Figure 3

Sizes Available/Dimensions	
Item #	Description
340020	Quick Fix Y 350/300 Assembly
340021	Quick Fix Y 400/350 Assembly

Quick Fix Fitting

Motorised Damper Blades

Sizes Available/Dimensions

Item #	Description	mm	Size	inch
001196	Damper blade & shft mtr 300	300		12"
001197	Damper blade & shft mtr 350	350		14"
001198	Damper blade & shft mtr 400	400		16"

Manual Damper Blades

Sizes Available/Dimensions

Item #	Description	mm	Size	inch
001203	Dp blade met man 300	300		12"
001204	Dp blade met man 350	350		14"
001205	Dp blade met man 400	400		16"

Motors

Sizes Available/Dimensions

Item #	Description
552049	Motor 24V Plug grn mp
552030	Motor 240V + Lead White
552056	Motor 24V Plug Yellow

Made for use with flexible ducts for quick and secure installation to location.



Duct Ties

Sizes Available/Dimensions

Item #	mm	Size	inch
664460	800		32"
664461	1000		39"
664462	1350		53"



Duct connection made easy, with the

Quick Fix Fitting

- Less Connections - Saves Time
- Easy Connection - Saves Effort
- Saves Transport Space
- No Duct Blow Offs
- Airtight & Fully Insulated

Available from your local Polyaire branch.





FLEXIBLE DUCT

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Duct Core



Polyaire Metallized Core fire rated flexible duct is manufactured from metallized Mylar and clear Mylar substrates, incorporating totally encapsulated helically wound spring wire. Bonded with a fire retardant and slip resistant dry deposit adhesive, this duct construction ensures a long life span in all ambient conditions.

Polyaire Metallized Core fire rated flexible duct is lightweight and easy to handle and will maintain its full diameter on bends. This duct is designed for domestic and commercial exhaust systems, ventilation systems and where heat gains or losses are not high, making it suitable for evaporative cooling systems.

Features

- Metallized Outer Surface
- Fire Rated 4254
- Operating Temperature: -20°C to +80°C
- Operation Pressure: -190pa to +1200pa
- General Use: Exhaust and ventilation systems

Duct Core

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
160074	Ø 100	Ø 4"	6
160075	Ø 150	Ø 6"	6
160076	Ø 200	Ø 8"	6
160077	Ø 250	Ø 10"	6
160078	Ø 300	Ø 12"	6
160079	Ø 350	Ø 14"	6
160080	Ø 400	Ø 16"	6
160081	Ø 450	Ø 18"	6
160082	Ø 500	Ø 20"	6

Duct Core - 4 Zero

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
160401	Ø 100	Ø 4"	6
160402	Ø 150	Ø 6"	6
160403	Ø 200	Ø 8"	6
160404	Ø 250	Ø 10"	6
160405	Ø 300	Ø 12"	6
160406	Ø 350	Ø 14"	6

Firebreak Duct R0.6



Polyaire Firebreak Flexible Duct is manufactured from metalized Mylar and clear Mylar substrates, incorporating totally enclosed helically wound galvanised high tensile steel wire. The layers are bonded with a fire retardant adhesive to ensure long life in all ambient conditions.

The insulation is a polyester thermal blanket manufactured to rigid standards.

Features

- Metalized Inner Core
- Polyester Insulation
- Metalized Outer Fire Jacket
- Operating Temperature: -20°C to +80°C
- Operation Pressure: -190pa to +1200pa
- General Use: Heating and cooling
- Domestic and commercial systems
- Complies with AS 4254
- Test certificates available

Firebreak Duct R0.6 (Polyester Insulation) - 3 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110001	Ø 150	Ø 6"	3
110003	Ø 200	Ø 8"	3
110005	Ø 250	Ø 10"	3
110007	Ø 300	Ø 12"	3
110009	Ø 350	Ø 14"	3
110011	Ø 400	Ø 16"	3
110013	Ø 450	Ø 18"	3
110014	Ø 500	Ø 20"	3
110015	Ø 550	Ø 22"	3
110016	Ø 600	Ø 24"	3

Firebreak Duct R0.6 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110002	Ø 150	Ø 6"	6
110004	Ø 200	Ø 8"	6
110006	Ø 250	Ø 10"	6
110008	Ø 300	Ø 12"	6
110010	Ø 350	Ø 14"	6
110012	Ø 400	Ø 16"	6
110126	Ø 450	Ø 18"	6
110123	Ø 500	Ø 20"	6

Firebreak Duct R1.0



Polyaire Firebreak Flexible Duct is manufactured from metalized Mylar and clear Mylar substrates, incorporating totally enclosed helically wound galvanised high tensile steel wire. The layers are bonded with a fire retardant adhesive to ensure long life in all ambient conditions.

The insulation is a polyester thermal blanket manufactured to rigid standards.

Features

- Metalized Inner Core
- Polyester Insulation
- Metalized Outer Fire Jacket
- Operating Temperature: -20°C to +80°C
- Operation Pressure: -190pa to +1200pa
- General Use: Heating and cooling
- Domestic and commercial systems
- Complies with AS 4254
- Test certificates available

Firebreak Duct R1.0 (Polyester Insulation) - 3 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110017	Ø 150	Ø 6"	3
110019	Ø 200	Ø 8"	3
110021	Ø 250	Ø 10"	3
110023	Ø 300	Ø 12"	3
110025	Ø 350	Ø 14"	3
110027	Ø 400	Ø 16"	3
110029	Ø 450	Ø 18"	3
110030	Ø 500	Ø 20"	3
110043	Ø 550	Ø 22"	3
110031	Ø 600	Ø 24"	3

Firebreak Duct R1.0 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110018	Ø 150	Ø 6"	6
110020	Ø 200	Ø 8"	6
110022	Ø 250	Ø 10"	6
110024	Ø 300	Ø 12"	6
110026	Ø 350	Ø 14"	6
110028	Ø 400	Ø 16"	6
110127	Ø 450	Ø 18"	6
110213	Ø 500	Ø 20"	6

Firebreak Duct R1.5



Polyaire's best selling Polyester Insulated Firebreak Duct is now rated to R1.5

Features

- Better insulation
- Less temperature gain/loss in the roof
- Better temperature transference to rooms
- Reduced running costs
- Higher efficiency
- Meets or exceeds BCA for all Australian regions
- 10 year warranty

Firebreak Duct R1.5 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110200	Ø 150	Ø 6"	6
110201	Ø 200	Ø 8"	6
110202	Ø 250	Ø 10"	6
110203	Ø 300	Ø 12"	6
110204	Ø 350	Ø 14"	6
110205	Ø 400	Ø 16"	6
110206	Ø 450	Ø 18"	6
110207	Ø 500	Ø 20"	6

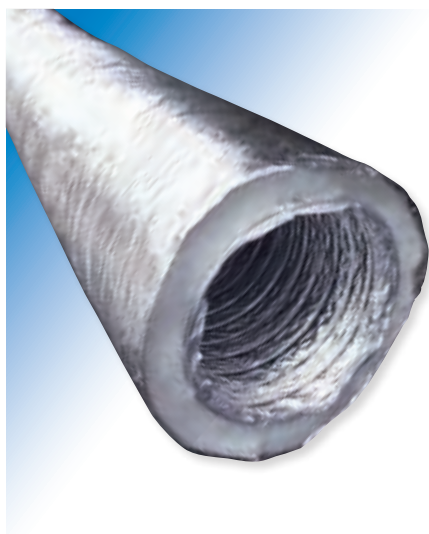


Ducted Systems

Polyaire supplies a complete range of Carrier products which are energy efficient with a powerful operation for rapid heating and cooling and precise temperature control.

Distributed by **polyaire**

Firebreak Duct Plus 4 Zero



Features

- Complies to Australian Standard AS 4254
- Test Certificate available
- Aluminium Inner Core
- Polyester Insulation
- Aluminium Outer Jacket

Firebreak Duct Plus 4 Zero R1.0 (Polyester Insulation) - 6 Metre Lengths

Item #	Diameter		Length (m)
	mm	inch	
110414	Ø 150	Ø 6"	6
110415	Ø 200	Ø 8"	6
110416	Ø 250	Ø 10"	6
110417	Ø 300	Ø 12"	6
110418	Ø 350	Ø 14"	6
110419	Ø 400	Ø 16"	6
110420	Ø 450	Ø 18"	6
110421	Ø 500	Ø 20"	6

polyaire
AIRCONDITIONING PRODUCTS

***Your One Stop
Air Conditioning Shop***



Domestic



Commercial



Design

'We've got you covered'

Firebreak Duct Silent



Polyaire Silentflex fire rated flexible duct is manufactured from metallized Mylar and clear Mylar substrates, incorporating totally encapsulated helically wound spring wire. Bonded with a fire retardant and slip resistant dry deposit adhesive, this duct construction ensures a long life span in all ambient conditions.

This duct is designed for domestic and commercial ventilation and air conditioning systems and is suitable for low, medium and high pressure systems.

Highly recommended because of its low resistance, excellent acoustic properties and compliance with all current relevant standards.

Firebreak Duct Silent R0.6 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110310	Ø 150	Ø 6"	6
110311	Ø 200	Ø 8"	6
110312	Ø 250	Ø 10"	6
110313	Ø 300	Ø 12"	6
110314	Ø 350	Ø 14"	6
110315	Ø 400	Ø 16"	6
110316	Ø 450	Ø 18"	6
110317	Ø 500	Ø 20"	6
110328	Ø 550	Ø 22"	6

Firebreak Duct Silent R1.0 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110319	Ø 200	Ø 8"	6
110320	Ø 250	Ø 10"	6
110321	Ø 300	Ø 12"	6
110322	Ø 350	Ø 14"	6
110323	Ø 400	Ø 16"	6
110324	Ø 450	Ø 18"	6
110325	Ø 500	Ø 20"	6

Firebreak Duct Silent R1.2 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110330	Ø 150	Ø 6"	6
110331	Ø 200	Ø 8"	6
110332	Ø 250	Ø 10"	6
110333	Ø 300	Ø 12"	6
110334	Ø 350	Ø 14"	6
110335	Ø 400	Ø 16"	6
110336	Ø 450	Ø 18"	6

Firebreak Duct Superior R2.0



Features

- **Superior Insulation**
Thicker insulation greatly enhances duct performance and integrity.
- **Superior Performance**
The thick insulation and R2.0 rating. Provides significant reductions in heat loss/gain.
- **Superior Efficiency**
Far superior thermal characteristics than lower R rated flexible duct.
- **Superior Air Temperature Transference**
There is less fluctuation of air temperature through the duct which provides more even distribution of the conditioned air.
- **Superior Running Costs**
The superior performance and consistent air temperature delivery of the flexible duct reduces the load on the air conditioning unit which contributes to reduced running costs.
- **Complies with Australian Standard AS4254.1-2012**

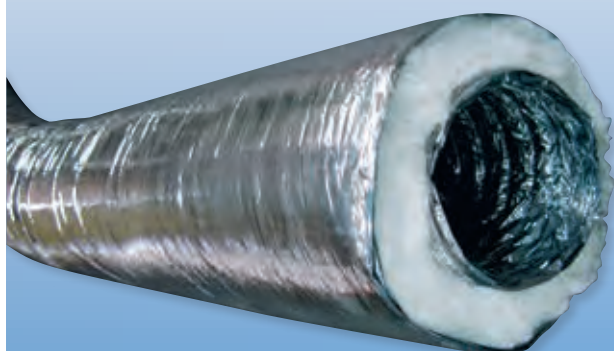
Firebreak Superior Duct R2.0 (Polyester Insulation) - 6 Metre Lengths

Sizes Available/Dimensions			
Item #	Diameter		Length (m)
	mm	inch	
110250	Ø 150	Ø 6"	6
110251	Ø 200	Ø 8"	6
110252	Ø 250	Ø 10"	6
110253	Ø 300	Ø 12"	6
110254	Ø 350	Ø 14"	6
110255	Ø 400	Ø 16"	6
110256	Ø 450	Ø 18"	6
110257	Ø 500	Ø 20"	6



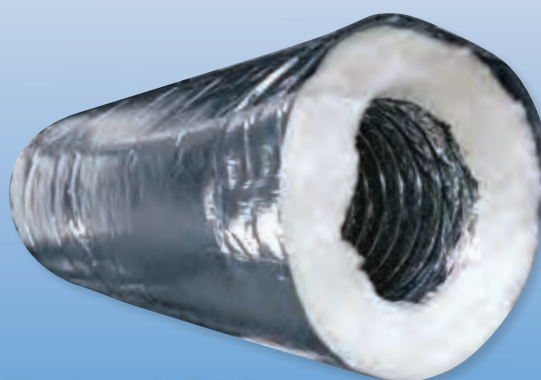
Flexible Ducting

Polyaire offers four different types:



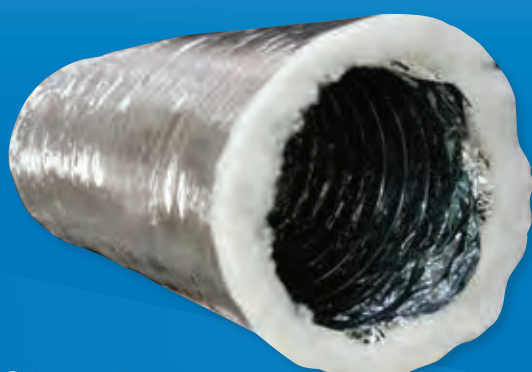
Superior Duct R2.0

This is the premium duct with a thermal rating of R2.0. It complies or exceeds all the new building codes for residential installations and is highly efficient in maintaining constant air temperature and contributes to reducing running costs of your air conditioning unit. Superior duct is the optimum choice for reverse cycle installations.



Firebreak R1.5

Firebreak R1.5 complies or exceeds all the new building codes for residential installations and is highly efficient in maintaining constant air temperature and contributes to reducing running costs of your air conditioning unit.



Silver Duct

Silver duct has a thermal rating of R1.0 and is a tough long lasting product which complies with the building code for many residential applications. It is an ideal choice for cooling only applications.



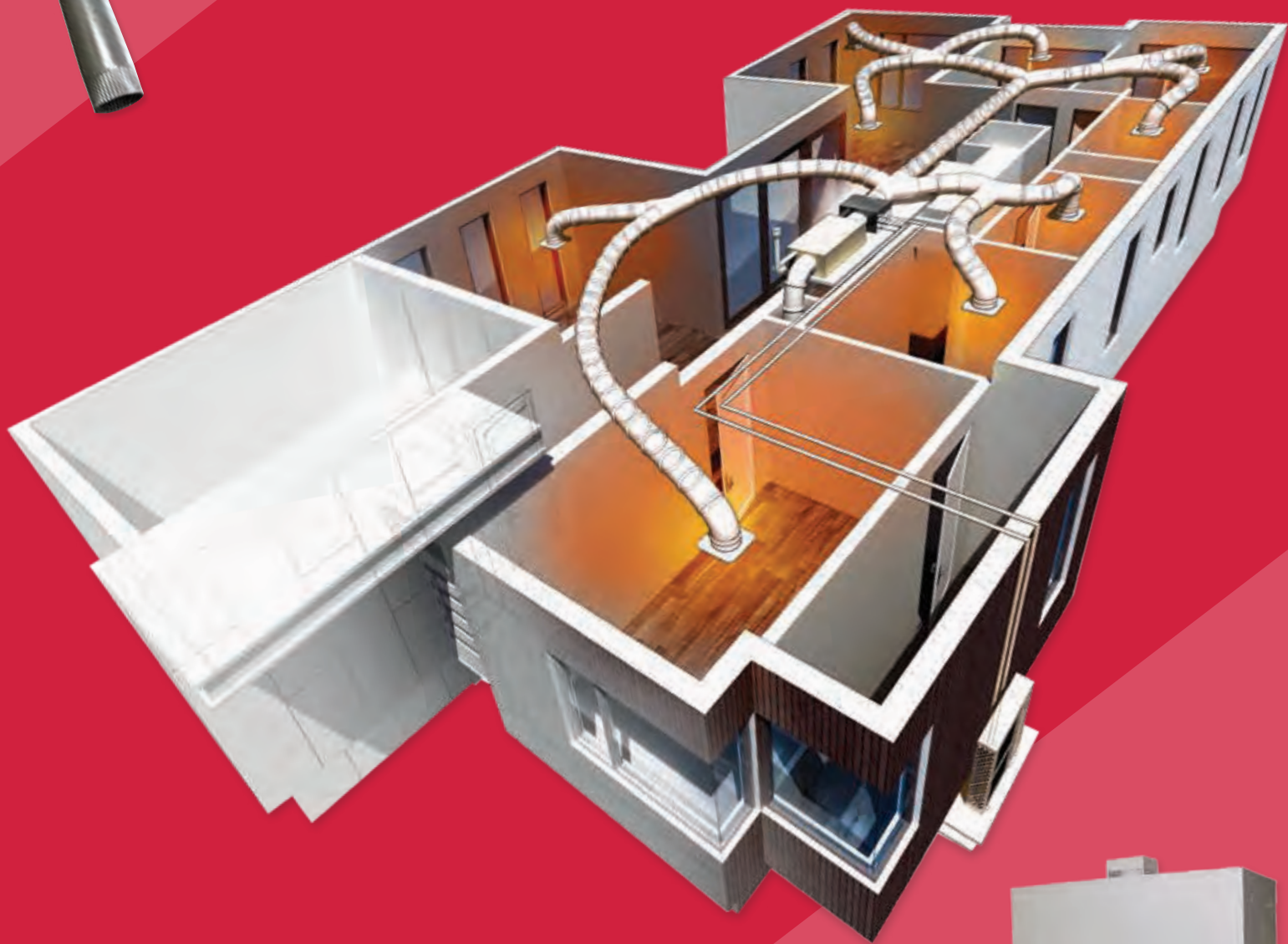
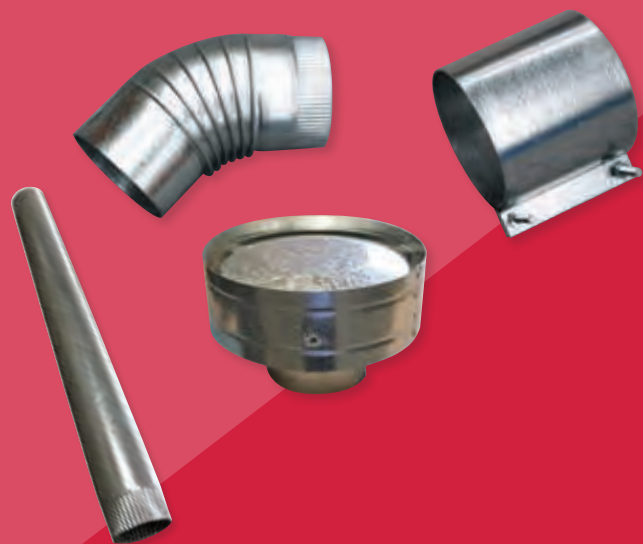
Silent Flex

Use up to 6 metre lengths of Polyaire Silent Flex loosely coiled and positioned so that the Air Conditioning unit's air intake is as quiet as possible. Its superior noise dampening characteristics is due to millions of perforations in the metallized mylar inner core that baffle the sound.

The cushioning effect of two ducts designed this way is not often seen in cheaper designs and installations and contributes greatly to low noise and high efficiency.

*Small Systems may need only a single duct.

Available from your local Polyaire branch. See www.polyaire.com.au for further details

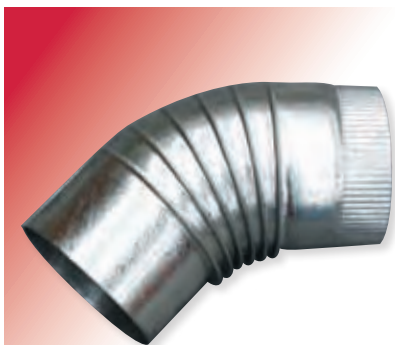




GAS HEATING COMPONENTS

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Bends

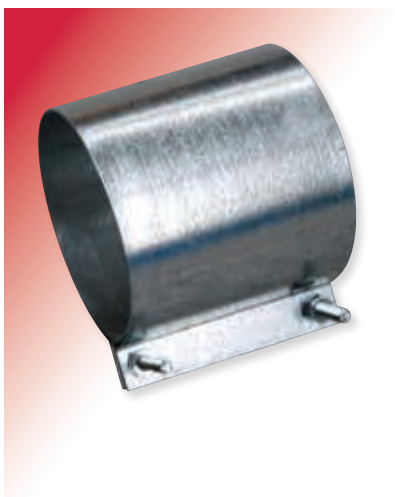


Bends

Sizes Available/Dimensions

Item #	Description	Diameter	
		mm	inch
444369	Bend 45 Degree	Ø 100	Ø 4"
444375	Bend 45 Degree	Ø 125	Ø 5"
444370	Bend 90 Degree	Ø 100	Ø 4"
444376	Bend 90 Degree	Ø 125	Ø 5"

Bolted Sleeves



Bolted Sleeves

Sizes Available/Dimensions

Item #	Diameter	
	mm	inch
444368	Ø 100	Ø 4"
444374	Ø 125	Ø 5"

Flues



Flues

Sizes Available/Dimensions

Item #	Diameter		Length (mm)
	mm	inch	
444365	Ø 100	Ø 4"	1800
444371	Ø 125	Ø 5"	1800

Gas



Gas

Sizes Available/Dimensions

Item #	Description	Diameter		Length (mm)
		mm	inch	
444366	Gas Cowl	Ø 100	Ø 4"	N/A
444372	Gas Cowl	Ø 125	Ø 5"	N/A

polyaire
AIRCONDITIONING PRODUCTS

RAG-H

Return Air Grille



*The **RAG-H** from Polyaire has been specifically developed as the complete solution for a return air grille in almost all ducted heating applications.*

You can find more information about this product on Page 93



GRILLES

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Square Swirl Diffusers - Model PSC	102

Avair Grille



The Polyaire Avair Ceiling Grille has been designed to provide a versatile and practical louvre grille. Designed with a purpose built integrated neck adaptor it can be manufactured to incorporate an air volume control balancing damper within the neck assembly.

A simple rotation of the grille centre engages the air volume damper allowing for adjustment of air flow from within the room.

Fixed spring loaded mounting clips allow for ease of installation, once the access hole is cut the unit is simply inserted and the clips engage automatically.

Manufactured from engineering grade plastic the Polyaire Avair Ceiling Grille will not corrode, fade or discolour and is highly suitable for domestic installations.

Avair Grille - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Face Size		Spigot Size	
		mm	inch	mm	inch	mm	inch
231001	Avair Grille	250 x 250	10" x 10"	360 x 360	14" x 14"	Ø 200 - Ø 250	8" - 10"
231002	Avair Wand	N/A	N/A	N/A	N/A	N/A	N/A

polyaire
AIRCONDITIONING PRODUCTS

MDO-S

Multi Directional Outlet



For complete control and comfort using unique adjustable air flow louvres, check out the
Polyaire MDO-S Ceiling Diffuser.

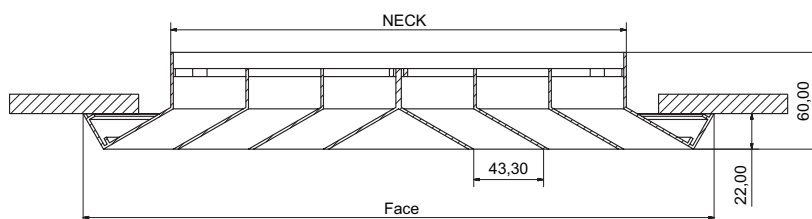
You can find more information about this product on Page 87

Bevel Face Diffuser



The Polyaire range of Square Ceiling Diffusers are designed to provide excellent directional performance typically in a 4 way airflow pattern. Manufactured from extruded aluminium the diffuser offers a removable core as standard while also providing options for 1, 2 & 3 way airflow patterns.

Square Ceiling Diffusers Model LFD-BB incorporate a Bevel Face frame and are used in surface mount ceiling applications where minimum ceiling smudging is required. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.



Bevel Faced Diffuser - Metal (Includes Adaptor)

Sizes Available/Dimensions							
Item #	Description	Nominal Neck Size		Face Size		Spigot Size	
		mm	inch	mm	inch	mm	inch
247053	3 Way	225 x 225	9" x 9"	338 x 338	13" x 13"	Ø 200	Ø 8"
247054	4 Way	225 x 225	9" x 9"	338 x 338	13" x 13"	Ø 200	Ø 8"
247055	3 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 200	Ø 8"
247056	4 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 200	Ø 8"
247058	2 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 250	Ø 10"
247059	2 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 250	Ø 10"
247060	3 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 250	Ø 10"
247061	4 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 250	Ø 10"
247062	3 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 300	Ø 12"
247063	4 Way	300 x 300	12" x 12"	413 x 413	16" x 16"	Ø 300	Ø 12"
245411	3 Way AD	375 x 375	15" x 15"	488 x 488	19" x 19"	Ø 150	Ø 6"
247064	3 Way	375 x 375	15" x 15"	488 x 488	19" x 19"	Ø 300	Ø 12"
247065	4 Way	375 x 375	15" x 15"	488 x 488	19" x 19"	Ø 300	Ø 12"
247077	4 Way	375 x 375	15" x 15"	488 x 488	19" x 19"	N/A	

Bevel Faced Diffuser - Aluminium

Sizes Available/Dimensions					
Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
245434	4 Way	450 x 450	18" x 18"	563 x 563	22" x 22"

Bevel Faced Diffuser - Neck Adaptors

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
447078	450 x 450	18" x 18"	Ø 200	8"
447079	450 x 450	18" x 18"	Ø 250	10"
447080	450 x 450	18" x 18"	Ø 300	12"

Classic Diffuser

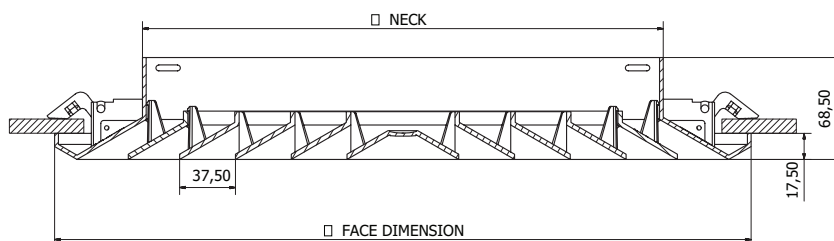


The Classic Diffuser from Polyaire has been designed to provide stylish elegance at an economical price.

The diffuser has been specially designed to give optimum four way airflow whilst complimenting almost any décor.

Features

- Classic modern design
- Attractive sculptured bevelled face
- Four way airflow
- High grade engineering plastic construction
- Comprehensive range of neck adaptors
- Removable centre core for ease of cleaning
- Suitable for reverse cycle, gas & evaporative systems



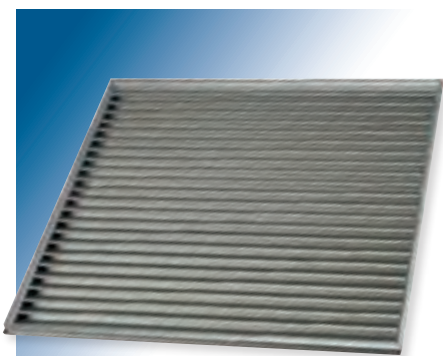
Classic Bevel Faced Diffuser - Plastic

Sizes Available/Dimensions					
Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
231319	4 Way	230 x 230	9" x 9"	328 x 328	13" x 13"
231324	4 Way	300 x 300	12" x 12"	403 x 403	16" x 16"
231329	4 Way	350 x 350	14" x 14"	468 x 468	18" x 18"

Classic Bevel Faced Diffuser - Plastic - Kits

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Spigot Size		
	mm	inch	mm	inch	
231230	230 x 230	9" x 9"	Ø 150	6"	
231231	230 x 230	9" x 9"	Ø 200	8"	
231232	300 x 300	12" x 12"	Ø 200	8"	
231233	300 x 300	12" x 12"	Ø 250	10"	
231234	300 x 300	12" x 12"	Ø 300	12"	
231235	350 x 350	14" x 14"	Ø 300	12"	
231236	350 x 350	14" x 14"	Ø 350	14"	

Door Relief Grille



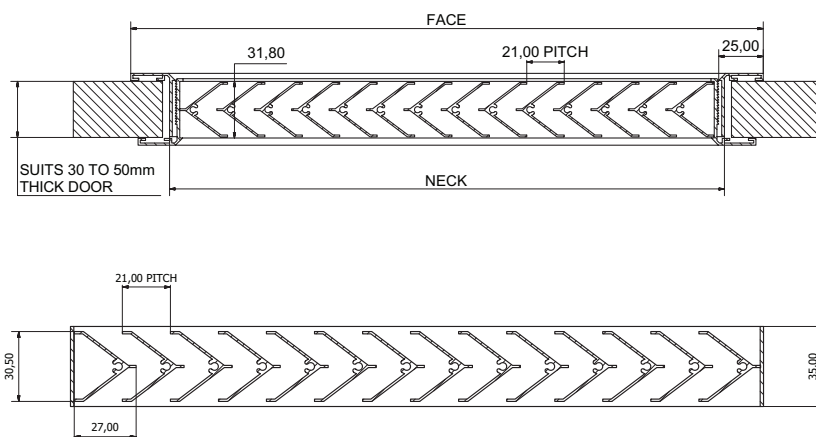
Polyaire Model DG-FC Door Relief Grilles are designed for use in doors where constant air transfer is required along with non-vision (sight proof).

Construction is from all aluminium extrusion with fixed full chevron blades.

Standard finish is natural anodised while other finishes including powder coat are available to suit the interior and architectural design requirements.

Model DG-FC Louvre Grilles are available in stock sizes and can also be manufactured to order in a wide range of sizes.

Free area is 50%



Door Relief Grille - Metal

Sizes Available/Dimensions

Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
244236	300 x 300	12" x 12"	330 x 330	13" x 13"
244237	450 x 150	18" x 6"	480 x 180	19" x 7"
244625	450 x 200	18" x 8"	480 x 230	19" x 9"
244627	450 x 300	18" x 12"	480 x 330	19" x 13"
244021	600 x 150	24" x 6"	630 x 180	25" x 7"
244022	600 x 200	24" x 8"	630 x 230	25" x 9"
244023	600 x 250	24" x 10"	630 x 280	25" x 11"
244024	600 x 300	24" x 12"	630 x 330	25" x 13"
244238	600 x 350	24" x 14"	630 x 380	25" x 15"
244026	600 x 400	24" x 16"	630 x 430	25" x 17"
244239	600 x 450	24" x 18"	630 x 480	25" x 19"
244028	600 x 600	24" x 24"	630 x 630	25" x 25"

Double Deflection Register - Fixed Core



Features

- Universal Outlets or Double Deflection Registers are generally used in sidewall applications.
- Consist of two separate rows of individually adjustable vanes - Front and Rear Vanes.
- Front Vanes - horizontal so the primary air leaving the outlet is directed above the room occupants and does not reach the occupied zone until well mixed with the secondary room air.
- Rear Vanes - vertical and are used to direct the air in a straight blow or spread the air as required by the room layout. If required, air flow can be directed at an angle to one or both sides, and still retain a near-parallel air stream pattern.
- Construction is all extruded aluminium horizontal and vertical blades, retained in a fixed or removable Core.
- Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

Double Deflection Register - Metal - Fixed Core

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
244611	300 x 100	12" x 4"	339 x 139	13" x 5"	
245528	300 x 150	12" x 6"	339 x 189	13" x 7"	
244619	300 x 200	12" x 8"	339 x 239	13" x 9"	
244613	350 x 150	14" x 6"	389 x 189	15" x 7"	
244614	400 x 150	16" x 6"	439 x 189	17" x 7"	
244615	400 x 200	16" x 8"	439 x 239	17" x 9"	
245667	400 x 250	16" x 10"	439 x 289	17" x 11"	
245668	500 x 150	20" x 6"	539 x 189	21" x 7"	
245669	500 x 200	20" x 8"	539 x 239	21" x 9"	
244618	500 x 250	20" x 10"	539 x 289	21" x 11"	
245670	500 x 300	20" x 12"	539 x 339	21" x 13"	
245671	600 x 150	24" x 6"	639 x 189	25" x 7"	
244616	600 x 200	24" x 8"	639 x 239	25" x 9"	
245672	600 x 250	24" x 10"	639 x 289	25" x 11"	
245673	600 x 400	24" x 16"	639 x 439	25" x 17"	

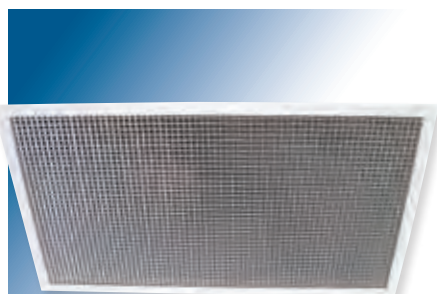
Double Deflection Register - Removable Core



Double Deflection Register - Metal - Removable Core

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
247300	300 x 100	12" x 4"	353 x 153	14" x 6"
247301	300 x 150	12" x 6"	353 x 203	14" x 8"
244217	300 x 200	12" x 8"	353 x 253	14" x 10"
244218	300 x 250	12" x 10"	353 x 303	14" x 12"
244049	300 x 300	12" x 12"	353 x 353	14" x 14"
244501	350 x 100	14" x 4"	403 x 153	16" x 6"
247302	350 x 150	14" x 6"	403 x 203	16" x 8"
244085	350 x 200	14" x 8"	403 x 253	16" x 10"
244391	350 x 250	14" x 10"	403 x 303	16" x 12"
245107	350 x 300	14" x 12"	403 x 353	16" x 14"
244086	350 x 350	14" x 14"	403 x 403	16" x 16"
244150	400 x 100	16" x 4"	453 x 153	18" x 6"
247303	400 x 150	16" x 6"	453 x 203	18" x 8"
247304	400 x 200	16" x 8"	453 x 253	18" x 10"
244087	400 x 250	16" x 10"	453 x 303	18" x 12"
244220	400 x 300	16" x 12"	453 x 353	18" x 14"
244088	400 x 400	16" x 16"	453 x 453	18" x 18"
244089	450 x 150	18" x 6"	503 x 203	20" x 8"
247305	450 x 175	18" x 7"	503 x 228	20" x 9"
244051	450 x 200	18" x 8"	503 x 253	20" x 10"
244091	450 x 300	18" x 12"	503 x 353	20" x 14"
244227	450 x 450	18" x 18"	503 x 503	20" x 20"
244402	500 x 100	20" x 4"	553 x 153	22" x 6"
244221	500 x 150	20" x 6"	553 x 203	22" x 8"
244222	500 x 200	20" x 8"	553 x 253	22" x 10"
244223	500 x 250	20" x 10"	553 x 303	22" x 12"
244093	500 x 300	20" x 12"	553 x 353	22" x 14"
244608	500 x 400	20" x 16"	553 x 453	22" x 18"
244052	500 x 500	20" x 20"	553 x 553	22" x 22"
245129	600 x 100	24" x 4"	653 x 153	26" x 6"
244228	600 x 150	24" x 6"	653 x 203	26" x 8"
247306	600 x 175	24" x 7"	653 x 228	26" x 9"
244229	600 x 200	24" x 8"	653 x 253	26" x 10"
244230	600 x 250	24" x 10"	653 x 303	26" x 12"
244152	600 x 300	24" x 12"	653 x 353	26" x 14"
244606	750 x 250	30" x 10"	803 x 303	32" x 12"
245682	800 x 100	32" x 4"	853 x 153	34" x 6"

Egg Crate Grilles



Polyaire Model EC Eggcrate Grilles are normally used in ceiling return air and exhaust applications.

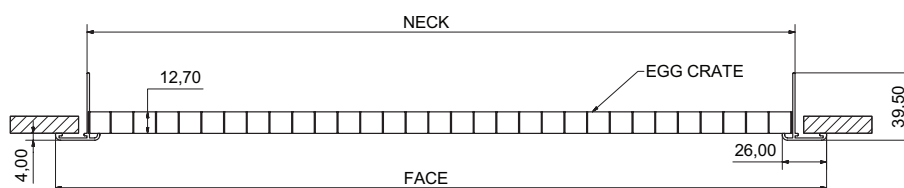
Construction: The frame is made from an aluminium extrusion, which supports and retains the aluminium square pattern lattice core.

The standard frame flange is 25mm.

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

Model EC-FC, EC-LC, EC-RC and EC-HF are available in stock sizes and can also be manufactured to order in a wide range of sizes.

See page 156 for TBars



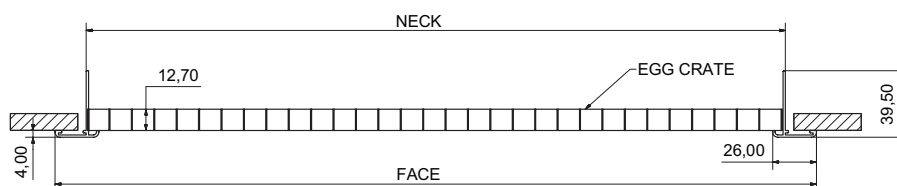
Eggcrate Grille - Metal - Fixed Core

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
245593	150 x 150	6" x 6"	195 x 195	8" x 8"
245595	200 x 200	8" x 8"	245 x 245	10" x 10"
245596	250 x 250	10" x 10"	295 x 295	12" x 12"
245597	300 x 300	12" x 12"	345 x 345	14" x 14"
245599	350 x 350	14" x 14"	395 x 395	16" x 16"
245603	400 x 400	16" x 16"	445 x 445	18" x 18"
245604	450 x 450	18" x 18"	495 x 495	20" x 20"
245605	500 x 500	20" x 20"	545 x 545	22" x 22"
245625	550 x 250	22" x 10"	595 x 295	23" x 12"
245610	550 x 550	22" x 22"	595 x 595	23" x 23"
245619	1150 x 550	45" x 22"	1195 x 595	47" x 23"

Eggcrate Grille - Metal - Fixed Core Neck Adaptors (C/W Butterfly Blades & Fixing Clips)

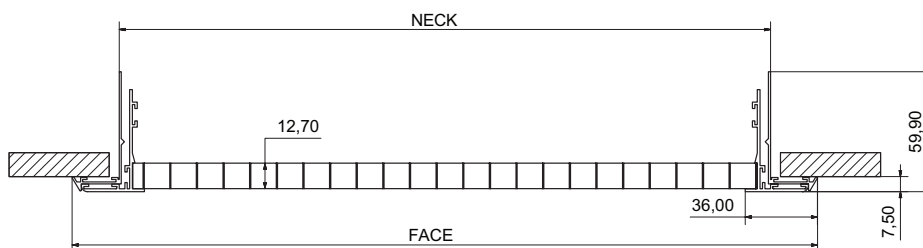
Sizes Available/Dimensions				
Item #	Neck Size		Spigot Size	
	mm	inch	mm	inch
247221	150 x 150	6" x 6"	Ø 150	Ø 6"
247222	200 x 200	8" x 8"	Ø 150	Ø 6"
247223	200 x 200	8" x 8"	Ø 200	Ø 8"
247224	250 x 250	10" x 10"	Ø 200	Ø 8"
247225	300 x 300	12" x 12"	Ø 250	Ø 10"

Egg Crate Grilles



Eggcrate Grille - Metal - Loose Core

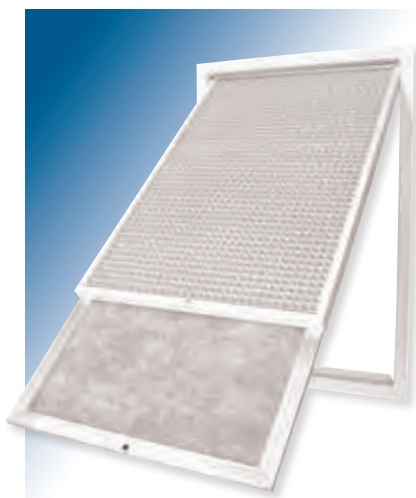
Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
244029	150 x 150	6" x 6"	182 x 182	8" x 8"
244030	200 x 200	8" x 8"	232 x 232	10" x 10"
244031	250 x 250	10" x 10"	282 x 282	12" x 12"
244032	300 x 300	12" x 12"	332 x 332	14" x 14"
244033	350 x 350	14" x 14"	382 x 382	16" x 16"
244038	400 x 400	16" x 16"	432 x 432	18" x 18"
244034	450 x 450	18" x 18"	482 x 482	20" x 20"
244572	500 x 500	20" x 20"	532 x 532	22" x 22"
244037	563 x 263	22" x 10"	595 x 295	23" x 12"
244035	563 x 563	22" x 22"	595 x 595	23" x 23"
245188	600 x 300	24" x 12"	632 x 332	25" x 14"
244482	600 x 400	24" x 16"	632 x 432	25" x 18"
244592	600 x 450	24" x 18"	632 x 482	25" x 20"
244591	900 x 500	35" x 20"	932 x 532	37" x 22"
244036	1163 x 563	46" x 22"	1195 x 595	47" x 23"



Eggcrate Grille - Metal - Removable Core

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
244288	150 x 150	6" x 6"	195 x 195	8" x 8"
244289	200 x 200	8" x 8"	245 x 245	10" x 10"
244290	250 x 250	10" x 10"	295 x 295	12" x 12"
244291	300 x 300	12" x 12"	345 x 345	14" x 14"
244292	350 x 350	14" x 14"	395 x 395	16" x 16"
244293	400 x 400	16" x 16"	445 x 445	18" x 18"
244294	450 x 450	18" x 18"	495 x 495	20" x 20"
244301	550 x 250	22" x 10"	595 x 295	23" x 12"
244305	550 x 550	22" x 22"	595 x 595	23" x 23"
244306	1150 x 550	45" x 22"	1195 x 595	47" x 23"

Egg Crate Grilles



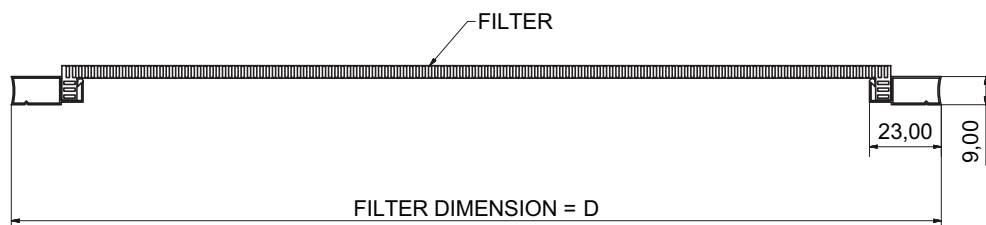
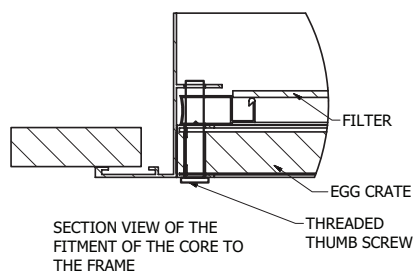
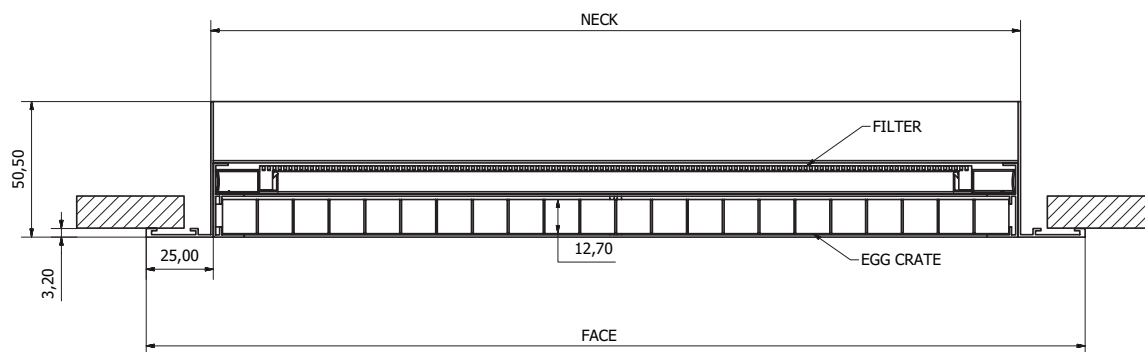
The Polyaire Model EC-HF Return Air Egg Crate Grille & Filter (Metal) is the one product which offers complete and simple service ability for all situations.

A unique design which can easily be installed and offer the latest in disposable filter pad technology. Ideally suited to environments where regular maintenance of the filter media is a concern, the Return Air Egg Crate Grille & Filter is designed for quick, simple filter pad change.

The actual filter pad is a product of exhaustive research by one of the world's largest air filtration authorities with approval from the American Underwriters Laboratories. A distinct black coloured filter media shows dirt and particle build up and provides for ready inspection prior to replacement as required.

Filters are available upon request.

See page 156 for TBars



Egg Crate Grilles

Eggcrate Grille - Metal - Hinged Filter (Polyester)

Sizes Available/Dimensions

Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
245225	300 x 300	12" x 12"	347 x 347	14" x 14"
244132	400 x 400	16" x 16"	447 x 447	18" x 18"
244135	500 x 400	20" x 16"	547 x 447	22" x 18"
244398	500 x 500	20" x 20"	547 x 547	22" x 22"
247207	550 x 550	22" x 22"	595 x 595	23" x 23"
244040	600 x 300	26" x 12"	647 x 347	25" x 14"
247200	600 x 400	24" x 16"	647 x 447	25" x 18"
244042	600 x 450	26" x 18"	647 x 497	25" x 20"
244137	600 x 500	26" x 20"	647 x 547	25" x 22"
245230	600 x 550	26" x 22"	647 x 597	25" x 24"
245232	600 x 600	26" x 26"	647 x 647	25" x 25"
245231	650 x 550	26" x 22"	697 x 597	27" x 24"
245378	700 x 400	28" x 16"	747 x 447	29" x 18"
244311	700 x 500	28" x 20"	747 x 547	29" x 22"
245675	700 x 550	28" x 22"	747 x 597	29" x 24"
245678	700 x 700	28" x 28"	747 x 747	29" x 29"
247201	750 x 400	30" x 16"	797 x 447	31" x 18"
247202	750 x 450	30" x 18"	797 x 497	31" x 20"
245234	750 x 500	30" x 20"	797 x 547	31" x 22"
247203	750 x 550	30" x 22"	797 x 597	31" x 24"
244312	800 x 300	32" x 12"	847 x 347	33" x 14"
244313	800 x 350	32" x 14"	847 x 397	33" x 16"
245621	800 x 500	32" x 20"	847 x 547	33" x 22"
245623	800 x 600	32" x 26"	847 x 647	33" x 25"
245674	800 x 700	32" x 28"	847 x 747	33" x 29"
244645	850 x 600	34" x 26"	897 x 647	35" x 25"
247204	900 x 400	35" x 16"	947 x 447	37" x 18"
244045	900 x 450	35" x 18"	947 x 497	37" x 20"
247206	900 x 500	35" x 20"	947 x 547	37" x 22"
247205	900 x 550	35" x 22"	947 x 597	37" x 24"
244109	900 x 600	35" x 26"	947 x 647	37" x 25"
245437	1000 x 400	39" x 16"	1047 x 447	41" x 18"
245426	1100 x 500	43" x 20"	1147 x 547	45" x 22"
247208	1150 x 550	45" x 45"	1195 x 595	47" x 24"
245379	1200 x 400	47" x 16"	1247 x 447	49" x 18"

Floor Boot - Metal



Side Entry Boot

Manufactured from galvanised steel and come in a wide range of sizes and outlet configurations.

Floor Boot - Metal

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Spigot Size	
		mm	inch	mm	inch
442304	Side Boot	350 x 150	14" x 6"	Ø 250	Ø 10"
442310	Uni Boot	350 x 150	14" x 6"	Ø 250	Ø 10"

Floor Boot - Plastic



Angle Boot

Features

- The specifically designed floor boot with manual balancing air flow damper and off set entry spigot allows for easy installation in confined areas.
- The air flow damper incorporated in the grille face permits the 'shut off' of outlets as required for total air control.
- Non corrosive
- Shut off damper
- Integrated boot
- Many popular colours
- Suitable for high corrosive areas

Floor Boot - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Spigot Size	
		mm	inch	mm	inch
431072	Angled	300 x 100	12" x 4"	Ø 150	Ø 6"
434520	Straight	300 x 100	12" x 4"	Ø 150	Ø 6"
434071	Straight	300 x 100	12" x 4"	Ø 200	Ø 8"
434175	Angled	300 x 100	12" x 4"	Ø 200	Ø 8"
434489	Angled	300 x 150	12" x 6"	Ø 200	Ø 8"
434490	Angled	300 x 150	12" x 6"	Ø 250	Ø 10"

Floor Grille - Metal



Features

- Available in two sizes -350 x 150 (large) suitable for air conditioning systems or a dual gas / cooling system and 300 x 100 used mainly for gas ducting heating only due to lower airflow delivery.
- Available in many colours.

Floor Grille - Metal

Sizes Available/Dimensions

Item #	Nominal Neck Size	
	mm	inch
244119	300 x 100	12" x 4"
244118	350 x 150	14" x 6"
244120	400 x 100	16" x 4"

Floor Grille - Plastic



Features

- Designed to effectively maximise the airflow performance of each individual outlet.
- The 'cross floor' pattern allows conditioned air to be discharged at exactly the right angle to maintain room comfort.
- Manufactured from engineering grade plastic which is extremely tough and ideally suited to heavy traffic areas.
- Available in many colours to complement all decor.

Floor Grille - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size	
		mm	inch
231101	Beige	300 x 100	12" x 4"
231105	Baltic Pine	300 x 100	12" x 4"
231100	Chocolate	300 x 100	12" x 4"
231107	Cream	300 x 100	12" x 4"
231103	Light Grey	300 x 100	12" x 4"
231104	Slate	300 x 100	12" x 4"
231073	White	300 x 100	12" x 4"

Floor Register



Features

- Features an updated closing mechanism with new twin dampers for efficient air flow control which allows accurate control of airflow and is easier to open and shut.
- Easy to keep clean - does not collect dirt easily.
- The twin blade design has the added benefit of deflecting air forward when the blades are set at 45 degrees which minimises the need for separate air deflectors.
- Made from material which is tough and can withstand household wear and tear. Will not rust, chip, bend or fade.
- Available in two sizes and various colours to suit all decor.

Floor Register - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size	
		mm	inch
234577	Beige	350 x 150	14" x 6"
234578	Chocolate	350 x 150	14" x 6"
234579	Mushroom	350 x 150	14" x 6"
234580	Grey	350 x 150	14" x 6"
234581	Slate	350 x 150	14" x 6"
234582	Baltic Pine	350 x 150	14" x 6"
234583	Cream	350 x 150	14" x 6"
234584	White	350 x 150	14" x 6"

Jet Diffusers



The Polyaire JAD Jet Diffuser is designed for the supply of large air volumes where long throw distances are required.

Polyaire Jet Diffusers are used extensively in large areas and high ceiling applications such as Sports Centres, Airports, Entertainment Complexes, Shopping Centres and Industrial areas.

Jet Diffusers are also used for Spot Cooling or Heating and the Jet diffuser can be rotated by 180 degree by adjusting the core, changing the throw pattern from Jet to Diffused Mode.

The Polyaire Jet Diffuser is available as a single unit or alternatively multiple units can be mounted in a panel. Construction is from spun aluminium.

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

Jet Diffuser - Metal

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
245291	Ø 200	8"	Ø 250	10"
245292	Ø 250	10"	Ø 300	12"
245293	Ø 300	12"	Ø 350	14"
245294	Ø 350	14"	Ø 400	16"
245295	Ø 400	16"	Ø 450	18"

Jet Ball Diffusers



Jet Ball Diffusers

Description	
Model	Description
245320	Jet Ball Diffuser 200
245321	Jet Ball Diffuser 250
245322	Jet Ball Diffuser 350
245323	Jet Ball Diffuser 315
245324	Jet Ball Diffuser 400

Linear Bar Grille - Removable Core



Linear Bar Grille - Metal - Removable Core

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
247307	400 x 100	16" x 4"	440 x 140	17" x 6"
247308	600 x 100	24" x 4"	640 x 140	25" x 6"
247309	800 x 100	32" x 4"	840 x 140	33" x 6"
247310	350 x 100	14" x 4"	390 x 140	15" x 6"
247311	400 x 150	16" x 6"	440 x 190	17" x 8"
247312	800 x 150	32" x 6"	840 x 190	33" x 8"

Linear Slot Diffuser (LSD)



The Polyaire Linear Slot Diffusers are an attractive alternative to the ceiling or high sidewall supply diffusers.

Slot diffusers can be installed individually in set lengths or in a continuous line. They can also be installed in any type of ceiling application.

The modules are available with a 20mm or 25mm Slot with the number of slots ranging from 1 to 8 slots and are further available as fixed or removable core. (Fixed Core - Model LSD-FC, Removable Core – LSD-RC).

The air pattern control is adjustable from the diffuser face and is achieved by means of an adjustable pattern control with each slot, enabling a full 180° air pattern adjustment. The suggested volume control should be from the main duct run take-off, or from a butterfly damper fitted to the inlet of the cushion head box.

Construction is from extruded aluminium and the recommended maximum length for each section is 3 metres. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

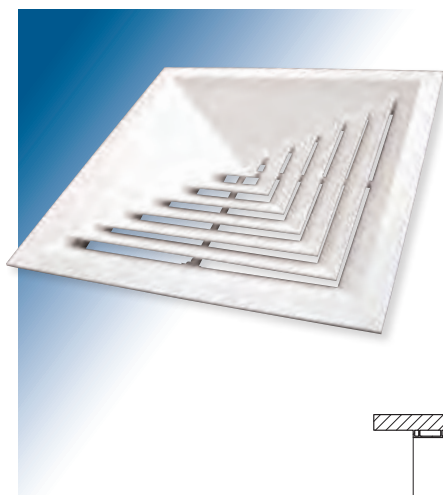
Linear Slot Diffuser - Metal - Fixed Core

Sizes Available/Dimensions						
Item #	Slot	Slot Width mm	Nominal Neck Size		Face Size	
			mm	inch	mm	inch
245297	1	20mm	1200 x 35	47" x 1"	1242 x 86	49" x 3"
245298	2	20mm	1200 x 69	47" x 3"	1242 x 124	49" x 5"
245310	3	20mm	600 x 102	24" x 4"	642 x 162	25" x 6"
245299	3	20mm	1200 x 102	47" x 4"	1242 x 162	49" x 6"

Linear Slot Diffuser - Metal - Loose Core & Removable Core

Sizes Available/Dimensions						
Item #	Slot	Slot Width mm	Nominal Neck Size		Face Size	
			mm	inch	mm	inch
245304	2	20mm	547 x 81	22" x 3"	595 x 145	23" x 6"
245306	2	20mm	598 x 105	23" x 4"	643 x 155	25" x 6"
245307	2	20mm	890 x 81	35" x 3"	938 x 145	37" x 6"
245308	2	20mm	990 x 81	39" x 3"	1038 x 145	41" x 6"
245305	2	20mm	1147 x 105	45" x 4"	1195 x 155	47" x 6"
245309	2	20mm	1190 x 81	47" x 3"	1238 x 145	49" x 6"
245311	3	20mm	1147 x 114	45" x 5"	1195 x 185	47" x 7"

Louvre Face Diffuser (LFD)

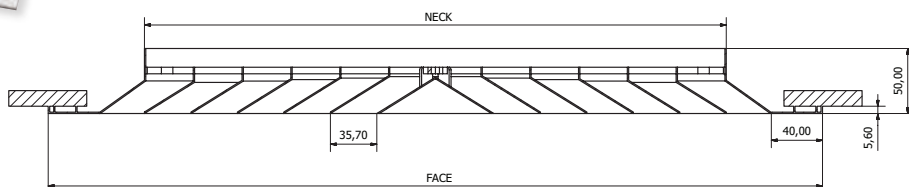


The Polyaire range of Square Ceiling Diffusers are designed to provide excellent directional performance typically in a 4 way airflow pattern.

Manufactured from extruded aluminium the diffuser offers a removable core as standard while also providing options for 1, 2 & 3 way airflow patterns.

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

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



Louvre Face Diffuser - Metal

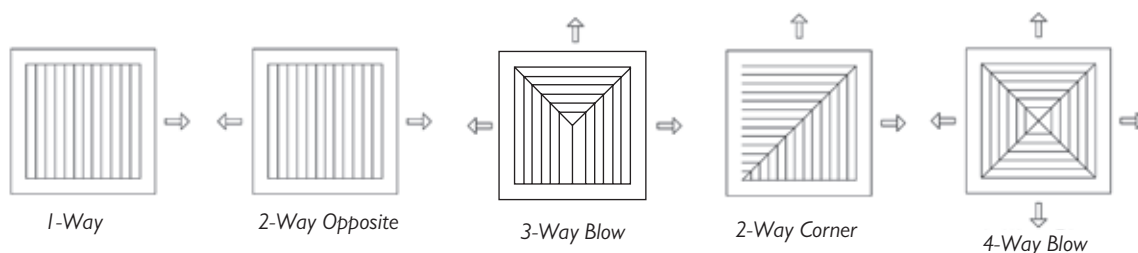
Sizes Available/Dimensions					
Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
247084	4 Way	150 x 150	6" x 6"	300 x 300	12" x 12"
247085	4 Way	225 x 225	9" x 9"	375 x 375	15" x 15"
247086	4 Way	300 x 300	12" x 12"	450 x 450	18" x 18"
247087	4 Way	375 x 375	15" x 15"	525 x 525	21" x 21"
247081	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"
247044	1 Way	450 x 450	18" x 18"	595 x 595	24" x 24"
247045	2 Way Cnr	450 x 450	18" x 18"	595 x 595	24" x 24"
247046	2 Way Opp	450 x 450	18" x 18"	595 x 595	24" x 24"
247080	3 Way	450 x 450	18" x 18"	595 x 595	24" x 24"

See page 156 for TBars

Louvre Face Diffuser - Metal - Kits

Sizes Available/Dimensions							
Item #	Description	Nominal Neck Size		Face Size		Spigot Size	
		mm	inch	mm	inch	mm	inch
248000	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	150 x 150	6" x 6"
248001	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	225 x 225	9" x 9"
248002	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	300 x 300	12" x 12"
248003	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	375 x 375	15" x 15"

Kits includes Grilles & Neck Adaptors



MDO-S



The new Polyaire Multi Directional Outlet - Square (MDO-S) is a ceiling diffuser that can direct air flow for complete control and comfort using unique adjustable air flow grilles.

Manufactured from engineering grade plastic that adheres to internationally recognised standards, this grille will not chip, fade, corrode or discolour.

Features

- Made from tough engineering grade plastic.
- Comes in four sizes - 230, 300, 350 and 400.
- Shares the same biscuits as the current MDO-X.
- The same face and neck sizes as the current MDO-X.
- Square corners on the face.
- The same etching pattern on the face as the current MDO-X.
- Four spring loaded clips with locking mechanism at the corners.
- Delivers air flow with directional control adjustment from the room.
- Low resistance to airflow (correct installation).
- Fits various ceiling types and thickness.
- Suitable for all wet areas.
- Easy to clean.
- Will not corrode and is suitable for high salt content areas.
- A softer, more contemporary appearance with wider flanges, fillet corners and edges.
- Snap-In feature holds the biscuit firmly - less likelihood of dislodging when adjusting or cleaning.

MDO-S - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
231800	4 Way	230 x 230	9" x 9"	283 x 283	11" x 11"
231801	4 Way	300 x 300	12" x 12"	353 x 353	14" x 14"
231802	4 Way	350 x 350	14" x 14"	408 x 408	16" x 16"
231803	4 Way	400 x 400	16" x 16"	456 x 456	18" x 18"

See page 89 for Neck Adaptors. See page 90 for Side Entry Boxes.

MDO-S - Plastic - Kits (Available with or without damper)

Sizes Available/Dimensions

Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
231812	230 x 230	9" x 9"	Ø 150	Ø 6"
231813	230 x 230	9" x 9"	Ø 200	Ø 8"
231814	300 x 300	12" x 12"	Ø 200	Ø 8"
231815	300 x 300	12" x 12"	Ø 250	Ø 10"
231816	300 x 300	12" x 12"	Ø 300	Ø 12"
231817	350 x 350	14" x 14"	Ø 300	Ø 12"
231818	350 x 350	14" x 14"	Ø 350	Ø 14"
231825	350 x 350	14" x 14"	Ø 400	Ø 16"
231821	400 x 400	16" x 16"	Ø 350	Ø 14"
231822	400 x 400	16" x 16"	Ø 400	Ø 16"

MDO-X



The latest addition to the comprehensive range of Polyaire ceiling vents is the Adjustable Multi Directional Outlet (MDO-X). It's unique design means it can be both fixed and adjustable.

Features

- Completely flush louvre blades even when fully open, gives a smooth ceiling profile.
- Ideal for use in all fixed/adjustable applications as the increased holding force maintains the louvres in the desired position even in strong air flow.
- The finish is etched to reduce reflection and accept painting with no preparation, a major cost saving.
- Softer more contemporary appearance with wider flanges, fillet corners and edges.
- Snap-In feature holds the biscuit firmly
 - Less likelihood of dislodging when adjusting or cleaning.

MDO-X - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
231200	4 Way	230 x 230	9" x 9"	283 x 283	11" x 11"
231201	4 Way	300 x 300	12" x 12"	353 x 353	14" x 14"
231202	4 Way	350 x 350	14" x 14"	408 x 408	16" x 16"
231203	4 Way	400 x 400	16" x 16"	456 x 456	18" x 18"
231204	4 Way	450 x 450	18" x 18"	506 x 506	20" x 20"
231205	6 Way	350 x 525	14" x 21"	406 x 581	16" x 23"

See page 89 for Neck Adaptors. See page 90 for Side Entry Boxes.

Accessories

Sizes Available/Dimensions

Item #	Description
231054	Mounting Clips - New (4)
231064	MDO-X Plastic Mounting Clips

MDO-X - Plastic - Kits No Damper Metal Clips

Sizes Available/Dimensions

Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
231212	230 x 230	9" x 9"	Ø 150	Ø 6"
231213	230 x 230	9" x 9"	Ø 200	Ø 8"
231214	300 x 300	12" x 12"	Ø 200	Ø 8"
231215	300 x 300	12" x 12"	Ø 250	Ø 10"
231216	300 x 300	12" x 12"	Ø 300	Ø 12"
231217	350 x 350	14" x 14"	Ø 300	Ø 12"
231218	350 x 350	14" x 14"	Ø 350	Ø 14"
231225	350 x 350	14" x 14"	Ø 400	Ø 16"
231221	400 x 400	16" x 16"	Ø 350	Ø 14"
231222	400 x 400	16" x 16"	Ø 400	Ø 16"
231223	450 x 450	18" x 18"	Ø 400	Ø 16"
231224	450 x 450	18" x 18"	Ø 450	Ø 18"
231219	525 x 350	21" x 21"	Ø 400	Ø 16"
231220	525 x 350	21" x 21"	Ø 450	Ø 18"

MDO-X

MDO-X - Plastic - Kits No Damper Plastic Clips

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
231414	300 x 300	12" x 12"	Ø 200	Ø 8"
231415	300 x 300	12" x 12"	Ø 250	Ø 10"
231416	300 x 300	12" x 12"	Ø 300	Ø 12"
231417	350 x 350	14" x 14"	Ø 300	Ø 12"
231418	350 x 350	14" x 14"	Ø 350	Ø 14"
231429	350 x 350	14" x 14"	Ø 400	Ø 16"
231421	400 x 400	16" x 16"	Ø 350	Ø 14"
231422	400 x 400	16" x 16"	Ø 400	Ø 16"
231423	450 x 450	18" x 18"	Ø 400	Ø 16"
231424	450 x 450	18" x 18"	Ø 450	Ø 18"
231420	525 x 350	21" x 21"	Ø 450	Ø 18"



Neck Adaptor - Plastic

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
431056	230 x 230	9" x 9"	Ø 150	Ø 6"
431057	230 x 230	9" x 9"	Ø 200	Ø 8"
431058	300 x 300	12" x 12"	Ø 200	Ø 8"
431059	300 x 300	12" x 12"	Ø 250	Ø 10"
431060	300 x 300	12" x 12"	Ø 300	Ø 12"
431061	350 x 350	14" x 14"	Ø 300	Ø 12"
431062	350 x 350	14" x 14"	Ø 350	Ø 14"
431073	350 x 350	14" x 14"	Ø 400	Ø 16"
431089	350 x 525	14" x 21"	Ø 400	Ø 24"
431090	350 x 525	14" x 21"	Ø 450	Ø 26"
431063	400 x 400	16" x 16"	Ø 350	Ø 14"
431064	400 x 400	16" x 16"	Ø 400	Ø 16"
431065	450 x 450	18" x 18"	Ø 400	Ø 16"
431066	450 x 450	18" x 18"	Ø 450	Ø 18"



Neck Adaptor - Plastic - Butterfly

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Spigot Size	
	mm	inch	mm	inch
431067	230 x 230	9" x 9"	Ø 150	Ø 6"
431068	230 x 230	9" x 9"	Ø 200	Ø 8"
431069	300 x 300	12" x 12"	Ø 200	Ø 8"
431070	300 x 300	12" x 12"	Ø 250	Ø 10"
431071	350 x 350	14" x 14"	Ø 300	Ø 12"

Side Entry Box - Plastic



Side Entry Box - Large



Side Entry Box - Small



Side Entry Box - Small with butterfly

Features

- Manufactured using high grade engineered plastic.
- Suitable for low profile ceilings/confined areas to minimise flow restriction due to sharp bending.
- Snap on connection – no screws or rivets required.
- Twin butterfly damper for balancing airflow.
- Connects to 150 and 200 flex (230 square neck diffuser) or 250 flex (300 square neck diffuser).

Side Entry Box - Plastic

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size mm	Size inch	Spigot Size mm	inch
231700	Adaptor MDO Plus Side Entry Kit 150	150 x 150	6" x 6"	N/A	N/A
231701	Adaptor MDO Plus Side Entry Kit 200	200 x 200	8" x 8"	N/A	N/A
231705	Adaptor MDO Plus Side Entry Kit 300	300 x 300	12" x 12"	N/A	N/A
231720	Plastic Side Entry Box 230sq	230 x 230	9" x 9"	N/A	N/A
231721	Plastic Side Entry Neck Adaptor 150 Butterfly	230 x 230	9" x 9"	Ø 150	Ø 6"
231722	Plastic Side Entry Box Neck Adaptor 200	230 x 230	9" x 9"	Ø 200	Ø 8"
231730	Plastic Side Entry Box 300sq	300 x 300	12" x 12"	N/A	N/A
231731	Plastic Side Entry Box Neck Adaptor 250	300 x 300	12" x 12"	z250	Ø 10"

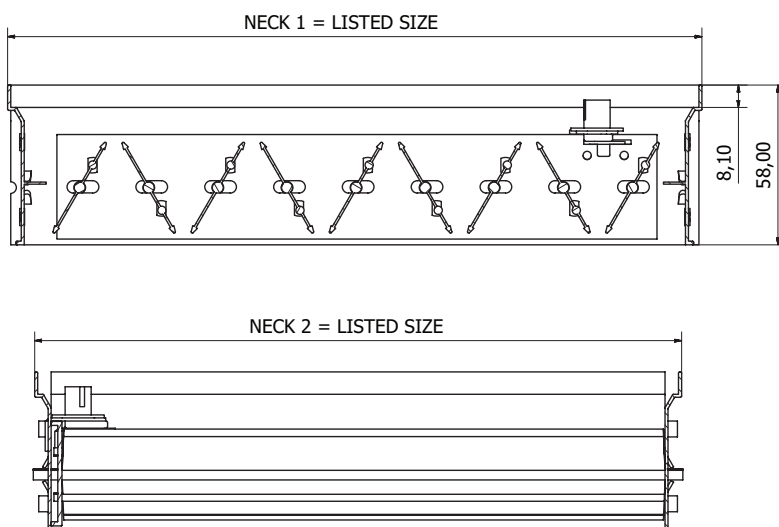
Opposed Blade Damper (OBD)



Polyaire Model OBD Opposed Blade Dampers are commonly used as a volume control device in supply, return and exhaust air systems.

Opposed Blade dampers are mounted directly behind the supply, return or exhaust air grille and provide the ability to be manually adjusted through the face of the Diffuser, Grille or Register.

Construction is from either Aluminium or Steel with a matt black finish Model OBD Opposed Blade Dampers are available in stock sizes and can also be manufactured to order in a wide range of sizes.



Opposed Blade Dampers - Metal

Sizes Available/Dimensions

Item #	mm	Nominal Neck Size	inch
545345	150 x 150		6" x 6"
545646	200 x 100		8" x 4"
545645	200 x 150		8" x 6"
545346	200 x 200		8" x 8"
545644	250 x 150		10" x 6"
545347	250 x 250		10" x 10"
545351	300 x 300		12" x 12"
545353	350 x 350		14" x 14"
545648	450 x 450		18" x 18"

Outside Air Louvre



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

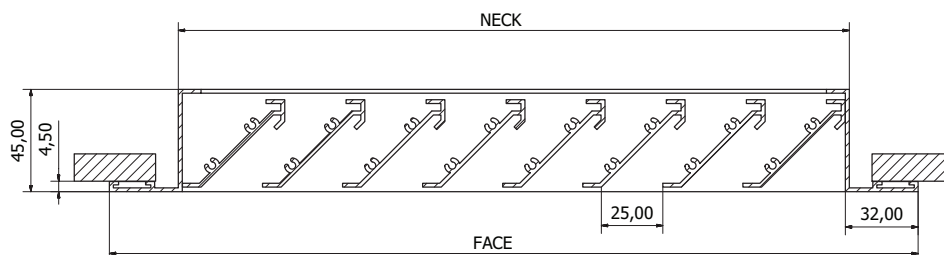
Polyaire manufacture both a small section and a large section outside air louvre as detailed below. The Polyaire Small Section Outside Air louvre model OAL-S is normally used for small sizes and small air quantities.

Construction is from all extruded aluminium with a standard flange of 32mm.

A Bird screen of 12mm x 12mm square mesh is fitted to the rear as an option.

Standard finish is natural anodised while other finishes including powder coat are available to suit the interior and architectural design requirements.

Model OAL-S Outside Air Louvres are available in stock sizes and can also be manufactured to order in a wide range of sizes.



Outside Air Louvre - Metal

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
244403	150 x 150	6" x 6"	204 x 204	8" x 8"
244000	200 x 200	8" x 8"	254 x 254	10" x 10"
244404	230 x 180	9" x 7"	284 x 234	11" x 9"
244001	250 x 250	10" x 10"	304 x 304	12" x 12"
245423	300 x 250	12" x 10"	354 x 304	14" x 12"
244002	300 x 300	12" x 12"	354 x 354	14" x 14"
244003	350 x 350	14" x 14"	404 x 404	16" x 16"
244004	400 x 400	16" x 16"	454 x 454	18" x 18"
244244	500 x 500	20" x 20"	554 x 554	22" x 22"
244245	600 x 300	24" x 12"	654 x 354	26" x 14"
244246	600 x 400	24" x 16"	654 x 454	26" x 18"
244247	600 x 600	24" x 24"	654 x 654	26" x 26"

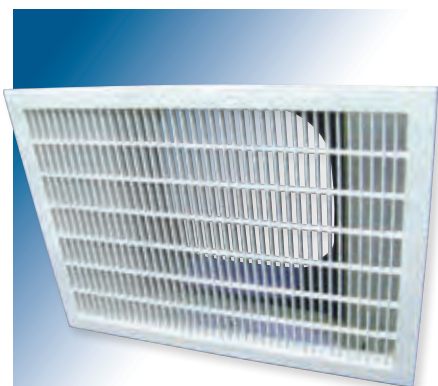
Outside Air Louvre - Round



Outside Air Louvre - Round

Description	
Model	Description
244010	OUTSIDE AIR LOUVRE GRILLE ROUND 150 X 150
244011	OUTSIDE AIR LOUVRE GRILLE ROUND 200 X 200

RAG-H Return Air Grille



The RAG-H from Polyaire has been specifically developed as the complete solution for a return air grille in almost all ducted heating applications.

The ceiling mount kits are complete with grille, return air box, clips and neck adaptor to suit either 300mm, 350mm or 400mm duct.

The wall mount kit comprises grille and metal installation frame.

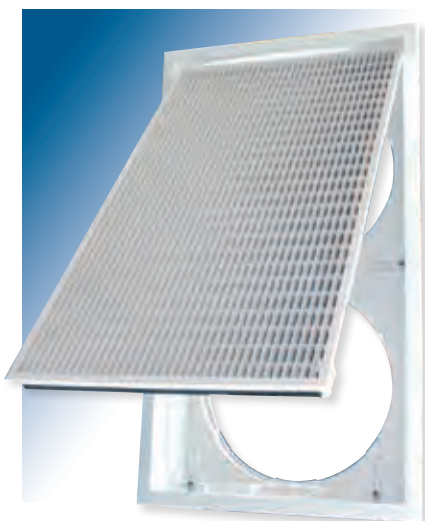
RAG-H - Plastic - Components

Sizes Available/Dimensions					
Item #	Description	Nominal Neck Size mm	inch	Face Size Metric mm	inch
231125	RAG-H Kit 350 x 900 Frame + Grille	350 x 900	14" x 35"	950 x 390	37" x 15"
231150	RAG-H 370 x 520 Grille Only	370 x 520	15" x 21"	425 x 575	17" x 23"
231160	RAG-H 350 x 900 x 35 Grille Only	350 x 900	14" x 35"	950 x 390	37" x 15"
231630	RAG-H Box 370 x 520 Only	370 x 520	15" x 21"	N/A	N/A
442654	RAG-H Supp Frame 350 x 900	350 x 900	14" x 36"	N/A	N/A
442655	RAG-H supp frame 410 x 560	410 x 560	16" x 22"	N/A	N/A
664404	Filter RAG-H 325 x 885 Only	N/A	N/A	325 x 885 x 11	13" x 35" x 0.4"
664405	Filter RAG-H 360 x 610 Only	N/A	N/A	360 x 610	14" x 24"

RAG-H - Plastic - Kits

Sizes Available/Dimensions	
Item #	Description
231117	370 x 520 Kit to suit 300mm Duct <i>Components: RAG-H Grille, RAG-H Box, Neck Adaptor 350/300, Metal Mounting Clips</i>
231118	370 x 520 Kit to suit 350mm Duct <i>Components: RAG-H Grille, RAG-H Box, Neck Adaptor 350/350, Metal Mounting Clips</i>
231119	370 x 520 Kit to suit 400mm Duct <i>Components: RAG-H Grille, RAG-H Box, Neck Adaptor 350/400, Metal Mounting Clips</i>
231120	370 x 520 Grille + Mounting Frame Kit <i>Components: RAG-H Grille, RAG Metal Frame, Metal Mounting Clips</i>
231125	370 x 900 Grille + Mounting Frame Kit <i>Components: RAG-H Grille, RAG Metal Frame, Metal Mounting Clips</i>
231170	400 x 750 Grille + Filter + Mounting Frame Kit <i>Components: RAG-H Grille, Filter RAG Metal Frame, Metal Mounting Clips</i>
231175	350 x 1200 Grille + Mounting Frame Kit <i>Components: RAG-H Grille, RAG Metal Frame, Metal Mounting Clips</i>

RAG-X Return Air Grille



900 x 500 &
1195 x 595mm



750 x 450mm

The RAG-X from Polyaire is an injection moulded high strength plastic complete Return Air assembly designed for more efficient installation, operation and maintenance.

The RAG-X one piece construction provides a significantly improved appearance compared to traditional grilles. It is simpler and easier to fit and reduces installation time.

Features include:

- Tri Filter for efficient dust removal.
- High Efficiency Low Static Filter.
- Black filter to reduce see through effect.
- Easy filter and grille removal for cleaning or replacement.
- Large free area for quiet efficient air flow.
- Aluminium Filter Frame.
- Grille release clips are hidden from view but are still instantly accessible.
- Grille opening can be reversed for ease of use.
- Attractive Eggcrate grille design.
- Rigid return air box.
- Simple clip in installation.
- Clip on reducers easily accommodate varying duct sizes.

Installation features:

- 750 x 450/1 x 400mm Round Connector.
- 900 x 500/2 x 400mm Round Connector.
- 1195 x 595/2 x 400mm Round Connector.
- Rigid one piece shell for easy fitment.
- Quick & easy duct attachment with standard Quick Fix Spigot or Reducer. (Fit the Duct to the collar and then clip on in the roof).
- Easy attachment to ceiling with wing nut adjustment (No tools needed).
- Sturdy metal wire clips for long life and no sagging.
- Filter Grille fits either way & swings out for easy cleaning.
- Front Grille Clips are positive locking & easy to use.
- Large free area.
- Simple slide in/out filter.
- More air flow efficient egg crate grille style.

Construction:

- One piece moulded return air box for strength, no leaks, low noise.
- All plastic for long life, low noise and corrosion/rust resistance.
- Reversible grille for easy use.
- Removable Tri Filter.
- Aluminium frame filter.

RAG-X Return Air Grille

RAG-X - Plastic - Box Only

Sizes Available/Dimensions						
Item #	Nominal Neck Size		Face Size		Spigot Size	
	mm	inch	mm	inch	mm	inch
231600	750 x 450	30" x 18"	806 x 506	32" x 20"	Ø400	Ø16"
231610	900 x 500	35" x 20"	956 x 556	38" x 22"	2 x Ø400	2 x Ø16"
231620	1139 x 539	45" x 21"	1195 x 595	47" x 23"	2 x Ø400	2 x Ø16"

RAG-X - Plastic - Grille Only

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
231135	750 x 450	30" x 18"	806 x 506	32" x 20"
231137	900 x 500	35" x 20"	956 x 556	38" x 22"
231140	1139 x 539	45" x 21"	1195 x 595	47" x 23"

RAG-X - Plastic - Kits

Sizes Available/Dimensions						
Item #	Nominal Neck Size		Face Size		Spigot Size	
	mm	inch	mm	inch	mm	inch
231520	750 x 450	30" x 18"	806 x 506	32" x 20"	Ø400	Ø16"
Components: RAG-X Grille inc Filter 750 x 450, RAG-X Box 750 x 450, QFF Spigot 400mm						
231521	750 x 450	30" x 18"	806 x 506	32" x 20"	Ø350	Ø14" (Reducer)
Components: RAG-X Grille inc Filter 750 x 450, RAG-X Box 750 x 450, QFF Spigot 350mm						
231530	900 x 500	35" x 20"	956 x 556	38" x 22"	2 x Ø400	Ø16"
Components: RAG-X Grille inc Filter 900 x 500, RAG-X Box 900 x 500, QFF Spigot 400mm						
231531	900 x 500	35" x 20"	956 x 556	38" x 22"	2 x Ø350	Ø14" (Reducer)
Components: RAG-X Grille inc Filter 900 x 500, RAG-X Box 900 x 500, QFF Spigot 350mm						
231540	1139 x 539	45" x 21"	1195 x 595	47" x 23"	2 x Ø400	Ø16"
Components: RAG-X Grille inc Filter 1195 x 595, RAG-X Box 1195 x 595, QFF Spigot 400mm						
231541	1139 x 539	45" x 21"	1195 x 595	47" x 23"	2 x Ø350	Ø14" (Reducer)
Components: RAG-X Grille inc Filter 1195 x 595, RAG-X Box 1195 x 595, QFF Spigot 350mm						

Quick Fix Fitting - Spigots

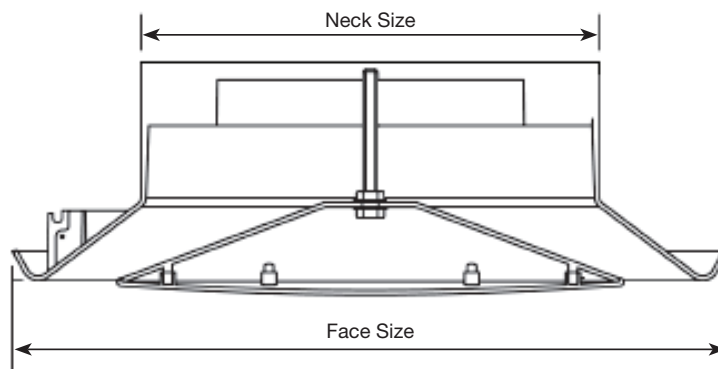
Sizes Available/Dimensions					
Item #	Description	Type	Size		
			mm	inch	
340382	Quick Fix Spigot	(Half - 2 required)	250	10"	
340383	Quick Fix Spigot	(Half - 2 required)	300	12"	
340384	Quick Fix Spigot	(Half - 2 required)	350	14"	
340385	Quick Fix Spigot	(Half - 2 required)	400	16"	
340386	Quick Fix Spigot	(Half - 2 required)	450	18"	

Round Ceiling Diffuser



The standard Polyaire Round Ceiling Diffuser is manufactured from engineering grade plastic for long term strength and rigidity. It is fully adjustable by rotating the centre cone from total shutoff to fully open.

The standard colour is off-white, the outer surface is lightly etched to reduce reflection and fit unobtrusively with most decors. Available in 4 sizes, it allows for smooth quiet airflow that flows out in a concentric pattern across the ceiling, to provide good coverage in cooling and most heating applications.



Round Ceiling Diffuser - Plastic

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
235384	Ø 147.5	Ø 6"	Ø 250	Ø 10"	
237100	Ø 198	Ø 8"	Ø 325	Ø 13"	
237101	Ø 250	Ø 10"	Ø 385	Ø 15"	
237102	Ø 298	Ø 12"	Ø 443	Ø 17"	

Round Ceiling Diffuser - Plastic - Insulated

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
235280	Ø 200	Ø 8"	Ø 318	Ø 13"	
235281	Ø 250	Ø 10"	Ø 390	Ø 15"	
235282	Ø 300	Ø 12"	Ø 441	Ø 17"	



Round Ceiling Diffuser - Aluminium - PA Plate

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
245270	Ø 150	Ø 6"	Ø 320	Ø 13"	
245271	Ø 200	Ø 8"	Ø 412	Ø 16"	
245272	Ø 250	Ø 10"	Ø 480	Ø 19"	
245273	Ø 300	Ø 12"	Ø 550	Ø 22"	

Round Heritage Outlet



The Circular Heritage Outlet is a more decorative design that employs a unique three stage regulation from closed through partially open to full open so that airflow needs can be tailored for a wide variety of applications.

Round Heritage Outlet - Plastic

Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
231085	Ø 150	Ø 6"	Ø 240	Ø 9"	
231086	Ø 200	Ø 8"	Ø 285	Ø 11"	
231087	Ø 250	Ø 10"	Ø 340	Ø 13"	
231088	Ø 300	Ø 12"	Ø 390	Ø 15"	

Round Outlet - Multi Cone Diffusers



Round Ceiling Diffuser - Aluminium - Multi Cone Style

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
245284	Ø 150	Ø 6"	Ø 320	Ø 13"
245285	Ø 200	Ø 8"	Ø 412	Ø 16"
245286	Ø 250	Ø 10"	Ø 480	Ø 19"
245287	Ø 300	Ø 12"	Ø 550	Ø 22"
245288	Ø 350	Ø 14"	Ø 595	Ø 24"

Roundjet - Plastic

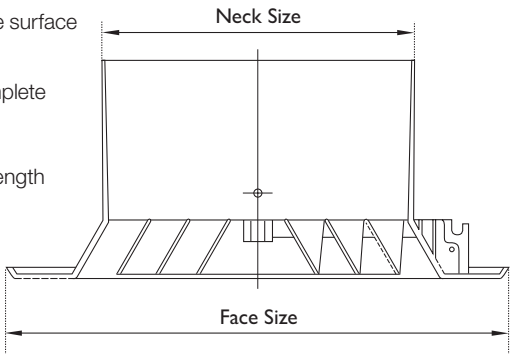


The Polyaire Roundjet is designed to jet the airflow right down to the floor which aids in mixing and circulating the air.

It is particularly efficient for rooms with higher ceilings and stairwells where a stronger more direct flow is required to get to the floor level and mix properly.

Features

- Flush mounting
- Easy clean non reflective white surface
- 2 sizes, 150mm & 200mm
- Fully adjustable flow from complete shut off to fully open
- Constructed from engineering grade plastic for long term strength and stability



Roundjet - Plastic

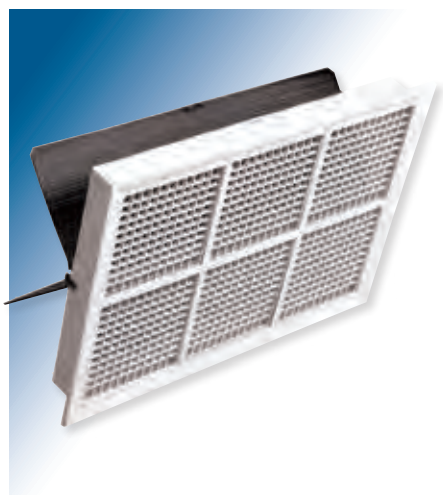
Sizes Available/Dimensions					
Item #	Nominal Neck Size		Face Size		
	mm	inch	mm	inch	
235446	Ø 150	Ø 6"	Ø 240	Ø 9"	
235447	Ø 200	Ø 8"	Ø 290	Ø 11"	

Gas Heating & Evaporative Cooling

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Security Relief Grille



The Polyaire Security Relief Vent offers the optimum solution for the increasing market popularity of evaporative air conditioning systems. The Security Relief Vent simply replaces the need to have doors or windows open to allow for the discharge of air during operation of evaporative systems.

The Security Relief Vent provides for cool air to be directed into the roof space which has a secondary cooling benefit and ensures that the energy required for cooling is not lost.

The Security Relief Vent can be added to existing installations as required or included in the design of any new or proposed work.

Available in one convenient size to suit all applications the Security Relief Vent permits doors and windows to remain locked whilst maximising the benefits of evaporative air conditioning systems.

Security Relief Grille

Sizes Available/Dimensions

Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
231079	525 x 350	21" x 14"	565 x 390	22" x 15"
231054	Mounting Clips - New (4) Metal			

Silent Air Grille



The unique cellular design of the Silent Air ceiling diffuser is the key to smooth turbulence free air diffusion.

The design allows for an exceptionally smooth air path where above average air volumes are required, providing low turbulence and reduced noise levels.

Designed specifically for commercial high rise application, the Silent Air diffuser has a stylish appeal which integrates with all ceiling styles, blending perfectly with modern interior designs and lighting decor. A strong lightweight construction with snap in diffuser quadrants, the Silent Air diffuser allows easy access for cleaning in high traffic areas.

Made from engineering grade plastic, the Silent Air diffuser will not fade, stain or corrode and is ideally suited for installation in tropical areas.

Silent Air Grille

Sizes Available/Dimensions

Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
231082	495 x 495	20" x 20"	595 x 595	23" x 23"

Square Swirl Diffusers - Model PSA



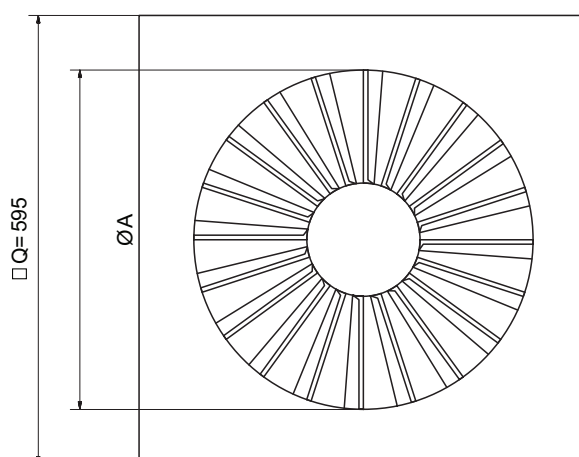
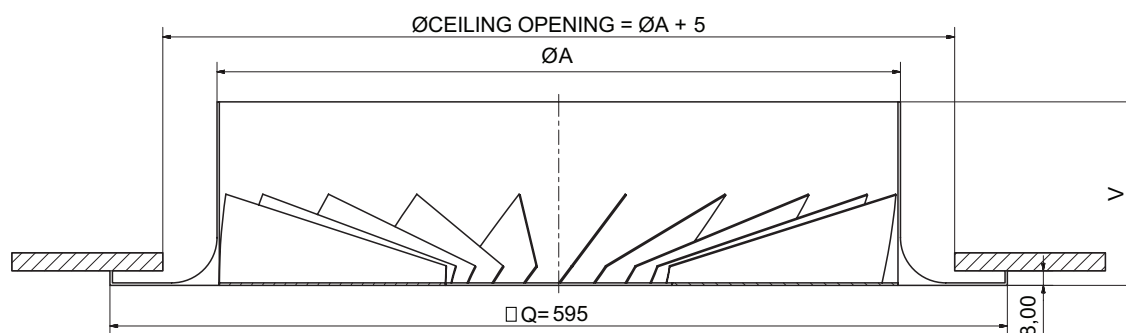
The Polyaire PSA Swirl Diffuser promotes high entrainment of ambient air into the supply air stream. The helical airflow reduces air velocity and provides a consistent spread resulting in relatively uniform temperature, humidity and air quality in all parts of the occupied space.

During cooling the warmest air in the room is immediately mixed with the supply air and temperature variation around the space (hot & cold spots) is minimised. During heating, the high induction of the room air by the supply swirl ensures sufficient air diffusion to minimise stratification and stagnant areas in the space. They are suitable for use in both constant volume flow and VAV systems and are suitable for all types of installation in closed ceilings, above open grid ceilings and in ceiling panels.

The standard PSA is made of cold rolled galvanized plate steel powder coated white (RAL9010). Other finishes are available to suit the interior and architectural design requirements. The face plate is 595mm square and suitable for surface mounting in the ceiling or alternatively as a lay-in for T-Bar ceiling installations.

Square Swirl Diffusers - Metal - Model PSA

Sizes Available/Dimensions							
Item #	Face Size/Neck Size (mm)	Q		A		V	
		mm	inch	mm	inch	mm	inch
247090	PSA Q 595/198	595	23"	198	8"	120	5"
247091	PSA Q 595/248	595	23"	248	10"	120	5"
247092	PSA Q 595/313	595	23"	313	12"	125	5"
247093	PSA Q 595/398	595	23"	398	16"	125	5"



Square Swirl Diffusers - Model PSB



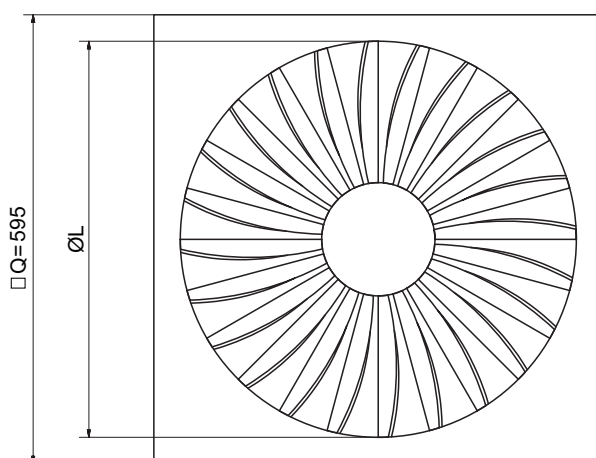
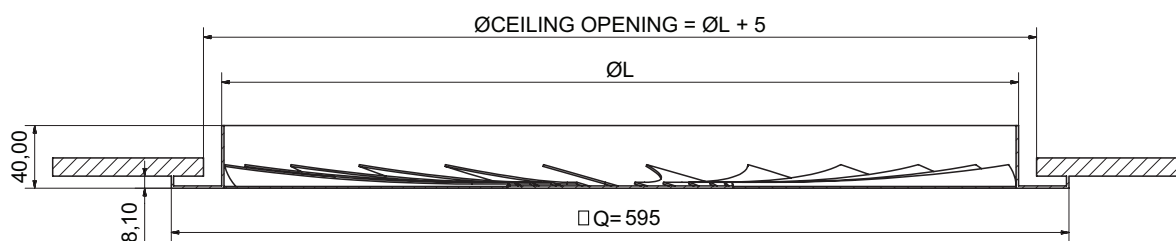
The Polyaire PSB Swirl Diffuser has fixed spiral blades that create rotational as well as axial, tangential and radial air movement. This means that it produces a strong horizontal swirl, obtaining high inductivity, to allow the introduced flow to rapidly mix with the ambient air to reduce temperature and also perceived drafts or hot/cold spots.

Velocity is reduced while still maintaining volume and reduced noise and this product is ideally suited to handling large volumes. The PSB maintains high quality air diffusion throughout the space with minimal temperature variation. The Swirl effects ensure good mixing of supply and ambient air.

The PSB is also suitable for return air application due to low pressure drop across the grille. The standard PSB is made of cold rolled galvanized plate steel powder coated white (RAL9010) Other finishes are available to suit the interior and architectural design requirements. The face plate is 595mm square and suitable for surface mounting in the ceiling or alternatively as a lay-in for T-Bar ceiling installations.

Square Swirl Diffusers - Metal - Model PSB

Sizes Available/Dimensions						
Item #	Face Size/Neck Size (mm)	Q		L		
		mm	inch	mm	inch	
247094	PSB Q 595/254	595	23"	254	10"	
247095	PSB Q 595/336	595	23"	336	13"	
247096	PSB Q 595/440	595	23"	440	17"	
247097	PSB Q 595/530	595	23"	530	21"	



Square Swirl Diffusers - Model PSC



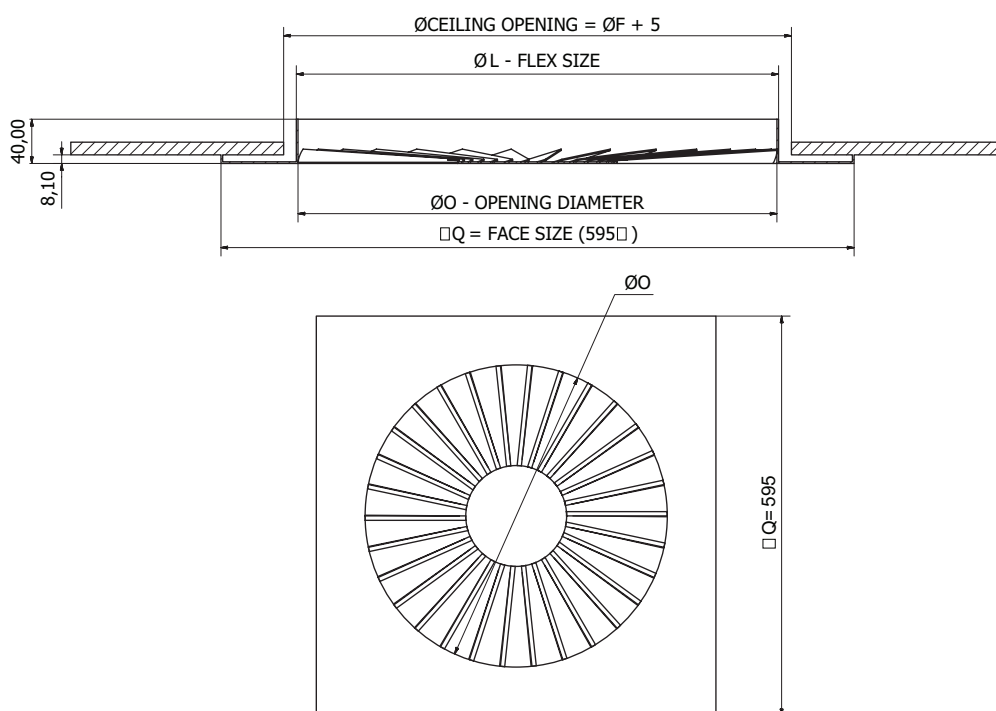
The Polyaire PSC Swirl Diffuser has fixed blades that create rotational as well as axial, tangential and radial air movement. This means that it produces a strong horizontal swirl, obtaining high inductivity, to allow the introduced flow to rapidly mix with the ambient air to reduce temperature and also perceived drafts or hot/cold spots.

Velocity is reduced while still maintaining volume and reduced noise and this product is ideally suited to handling large volumes. The PSC maintains high quality air diffusion throughout the space with minimal temperature variation. The Swirl effects ensure good mixing of supply and ambient air. The PSC is also suitable for return air application due to low pressure drop across the grille.

The standard PSC is made of cold rolled galvanized plate steel powder coated white (RAL9010) Other finishes are available to suit the interior and architectural design requirements. The face plate is 595mm square and suitable for surface mounting in the ceiling or alternatively as a lay-in for T-Bar ceiling installations.

Square Swirl Diffusers - Metal - Model PSC

Sizes Available/Dimensions					
Item #	Face Size/Neck Size (mm)	Q		L	
		mm	inch	mm	inch
247101	PSC Q 595/535	595	23"	535	21"
247102	PSC R - HIGH VOL 675/500	675	23"	500	20"
247103	PSC Q - HIGH VOL 595/500	595	23"	500	20"
247104	SWIRL DIF 24 ADJ BLADE Q 595/538	595	23"	538	21"
247105	PSC Q - HIGH VOL 595/350	595	23"	350	14"
247106	PSC R 600D/535	600	24"	535	21"
247107	PSC Q - HIGH VOL SWL DIF 395/350	395	16"	350	14"
247108	PSC Q - HIGH VOL SWL DIF 445/350	445	18"	350	14"
247109	PSC Q - HIGH VOL SWL DIF 495/350	495	20"	350	14"
247110	PSC Q - HIGH VOL SWL DIF 470D/350	470	19"	350	14"



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SHEET METAL

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Blades



Features

- Suited for fitting to Circular Spigots.
- Available in sizes 150, 200, 250, 300, 350, 400, 450 and 500mm diameter.
- Construction is from Galvanised steel blade with die cast damper kits.
- Can be fitted retrospectively to existing installations either in circular take off spigots or entry spigots to Cushion Boxes and Plenums.

Volume Damper Blades

Sizes Available/Dimensions			
Item #	Size		inch
	mm		
542606	150		6"
542607	200		8"
542608	250		10"
542609	300		12"
542610	350		14"
542611	400		16"
542612	450		18"
542613	500		20"

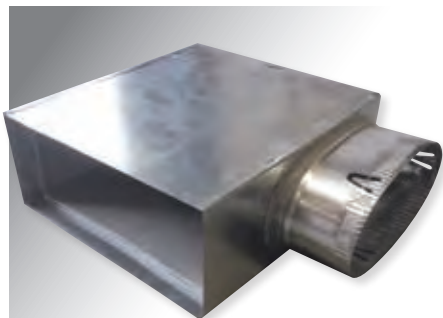
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Boot - End - 10mm Insulation - Spigot on Short Side



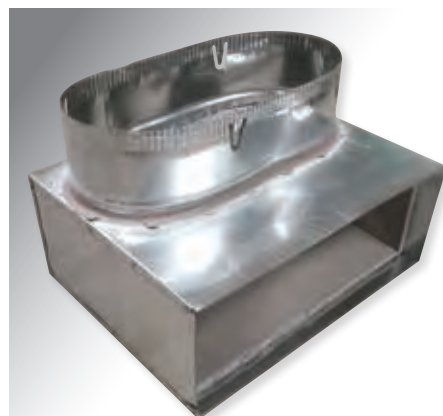
Features

- Spigot is located on the short side or end of the box.

End Boot - 10mm Insulation - Spigot on Short Side

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443895	350 x 150 x 400	14" x 6" x 16"	Ø 200	Ø 8"
443896	350 x 150 x 400	14" x 6" x 16"	Ø 250	Ø 10"
443897	400 x 150 x 400	18" x 6" x 16"	Ø 300	Ø 12"

Boot - Side - 10mm Insulation - Spigot on Long Side



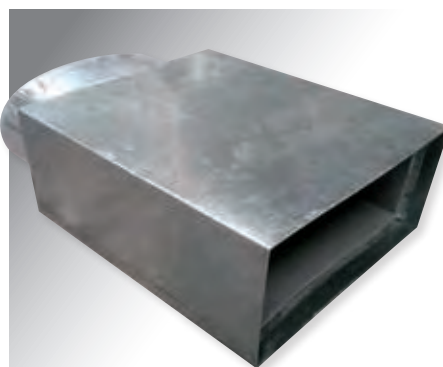
Features

- Spigot is placed adjacent to the long side entry and is generally used to supply air to ceiling mounted linear outlets.
- The side entry spigot allows for maximum air mixing and will assist in the even distribution of air across the face of the grille.

Side Boot - 10mm Insulation - Spigot on Long Side

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443898	350 x 150 x 400	14" x 6" x 16"	Ø 200	Ø 8"
443899	350 x 150 x 400	14" x 6" x 16"	Ø 250	Ø 10"
443900	400 x 150 x 400	18" x 6" x 16"	Ø 300	Ø 12"

Boot - Uni - 10mm Insulation - Spigot Opposite Open End



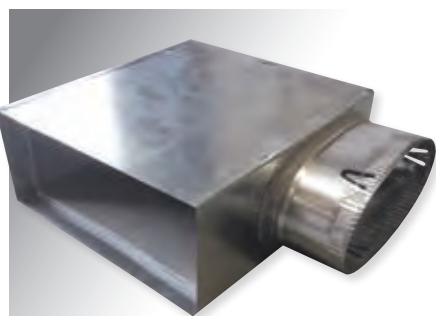
Features

- Spigot is placed at the top entry.
- Generally used in side-blow applications where it may be necessary to achieve maximum throw across the conditioned space.

Uni Boot - 10mm Insulation - Spigot Opposite Open End

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443901	350 x 150 x 400	14" x 6" x 16"	Ø 200	Ø 8"
443902	350 x 150 x 400	14" x 6" x 16"	Ø 250	Ø 10"
443903	400 x 150 x 400	18" x 6" x 16"	Ø 300	Ø 12"

Boot - End - Insulated - Spigot on Short Side



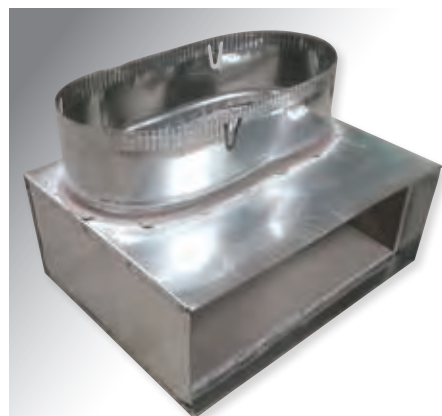
Features

- Spigot is located on the short side or end of the box.

End Boot - Insulated - Spigot on Long Side

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
442320	300 x 100 x 400	12" x 4" x 16"	Ø 150	Ø 6"
442323	350 x 150 x 400	14" x 6" x 16"	Ø 200	Ø 8"
442324	350 x 150 x 400	14" x 6" x 16"	Ø 250	Ø 10"

Boot - Side - Insulated - Spigot on Long Side



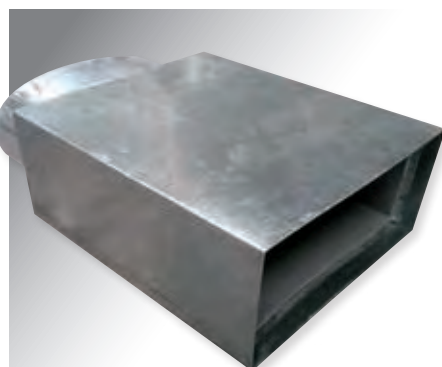
Features

- Spigot is placed adjacent to the long side entry and is generally used to supply air to ceiling mounted linear outlets.
- The side entry spigot allows for maximum air mixing and will assist in the even distribution of air across the face of the grille.

Side Boot - Insulated - Spigot on Long Side

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
442300	300 x 100 x 400	12" x 4" x 16"	Ø 150	Ø 6"
442301	300 x 100 x 400	12" x 4" x 16"	Ø 200	Ø 8"
442303	350 x 150 x 400	14" x 6" x 16"	Ø 200	Ø 8"
443896	350 x 150 x 400	14" x 6" x 16"	Ø 250	Ø 10"
442305	350 x 150 x 400	14" x 6" x 16"	Ø 300	Ø 12"

Boot - Uni - Insulated - Spigot Opposite Open End



Features

- Spigot is placed at the top entry.
- Generally used in side-blow applications where it may be necessary to achieve maximum throw across the conditioned space.

Uni Boot - Insulated - Spigot Opposite Open End

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
442306	300 x 100 x 150	12" x 4" x 6"	Ø 150	Ø 6"
442307	300 x 100 x 150	12" x 4" x 6"	Ø 200	Ø 8"
442308	300 x 100 x 150	12" x 4" x 6"	Ø 250	Ø 10"
442309	350 x 150 x 150	14" x 6" x 6"	Ø 200	Ø 8"
443899	350 x 150 x 150	14" x 6" x 6"	Ø 250	Ø 10"
442311	350 x 150 x 150	14" x 6" x 6"	Ø 300	Ø 12"

Cushion Boxes



Polyaire manufacture an extensive range of Sheet Metal Cushion boxes to suit all Supply, Return, Relief and Exhaust applications.

Features

- Construction is from Galvanised Steel or Zinc anneal in material thicknesses as specified.
- Uninsulated (Plain) Cushion Boxes are generally used for exhaust applications while insulated Cushion Boxes are used for Supply, Return and Transfer applications.
- Insulation requirements are application specific and include 6mm, 25mm and 50mm Polyester, Black Face or lined with Acoustic Insulation.
- Cushion Boxes are manufactured to order in a wide range of sizes to accommodate the Diffuser, Register or Grille.

Cushion Box - 25mm Polyester Insulation

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443847	150 x 150 x 150	6" x 6" x 6"	Ø 150	Ø 6"
443848	200 x 200 x 200	8" x 8" x 8"	Ø 150	Ø 6"
443849	200 x 200 x 200	8" x 8" x 8"	Ø 200	Ø 8"
443845	225 x 225 x 225	9" x 9" x 9"	Ø 150	Ø 6"
443850	225 x 225 x 225	9" x 9" x 9"	Ø 200	Ø 8"
443853	300 x 300 x 300	12" x 12" x 12"	Ø 200	Ø 8"
443851	300 x 300 x 300	12" x 12" x 12"	Ø 250	Ø 10"
443854	300 x 300 x 300	12" x 12" x 12"	Ø 300	Ø 12"
443852	375 x 375 x 375	15" x 15" x 15"	Ø 300	Ø 12"
443859	375 x 375 x 375	15" x 15" x 15"	Ø 350	Ø 14"
443846	450 x 450 x 450	18" x 18" x 18"	Ø 150	Ø 6"
443855	450 x 450 x 450	18" x 18" x 18"	Ø 200	Ø 8"
443856	450 x 450 x 450	18" x 18" x 18"	Ø 250	Ø 10"
443857	450 x 450 x 450	18" x 18" x 18"	Ø 300	Ø 12"
443858	450 x 450 x 450	18" x 18" x 18"	Ø 350	Ø 14"

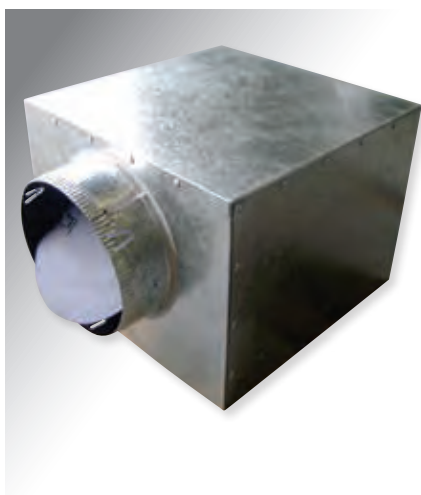
Cushion Box - 50mm Polyester Insulation

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443875	450 x 450 x 450	18" x 18" x 18"	Ø 200	Ø 8"
443876	450 x 450 x 450	18" x 18" x 18"	Ø 250	Ø 10"
443877	450 x 450 x 450	18" x 18" x 18"	Ø 300	Ø 12"
443878	450 x 450 x 450	18" x 18" x 18"	Ø 350	Ø 14"

Cushion Box - 50mm Fibreglass Insulation

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443892	450 x 450 x 450	18" x 18" x 18"	Ø 300	Ø 12"
443893	450 x 450 x 450	18" x 18" x 18"	Ø 350	Ø 14"

Cushion Boxes



Cushion Box - Plain

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
442201	150 x 150 x 250	6" x 6" x 10"	Ø 150	Ø 6"
442202	200 x 200 x 250	8" x 8" x 10"	Ø 150	Ø 6"
442203	200 x 200 x 300	8" x 8" x 12"	Ø 200	Ø 8"
442205	250 x 250 x 300	10" x 10" x 12"	Ø 200	Ø 8"
442206	250 x 250 x 350	10" x 10" x 14"	Ø 250	Ø 10"
442207	300 x 300 x 300	12" x 12" x 12"	Ø 200	Ø 8"
442208	300 x 300 x 350	12" x 12" x 14"	Ø 250	Ø 10"
442209	300 x 300 x 400	12" x 12" x 16"	Ø 300	Ø 12"

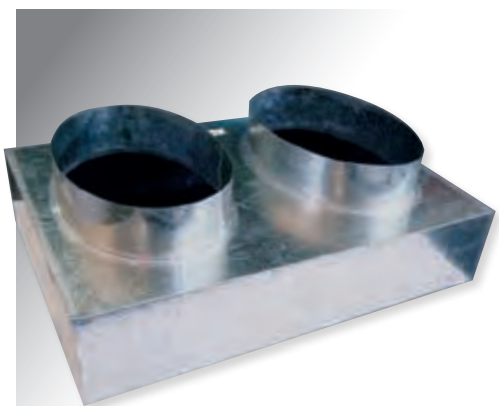
Cushion Box - Spray Insulation

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
442469	230 x 230 x 280	9" x 9" x 11"	Ø 150	Ø 6"
442470	230 x 230 x 330	9" x 9" x 13"	Ø 200	Ø 8"
442482	300 x 300 x 380	12" x 12" x 15"	Ø 250	Ø 10"

Cushion Box - Swirl - 25mm Polyester Insulation

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
443861	585 x 585 x 300	23" x 23" x 12"	Ø 200	Ø 8"
443862	585 x 585 x 300	23" x 23" x 12"	Ø 250	Ø 10"
443863	585 x 585 x 300	23" x 23" x 12"	Ø 300	Ø 12"

Return Air Boxes - 10mm Insulation



Return Air Boxes - 10mm Insulation

Sizes Available/Dimensions					
Item #	Spigots	Size (L x W x H)		Spigot Size	
		mm	inch	mm	inch
442133	1	550 x 550 x 150	22" x 22" x 6"	Ø 400	Ø 16"
442134	1	550 x 550 x 150	22" x 22" x 6"	Ø 450	Ø 18"
442135	1	600 x 400 x 150	24" x 16" x 6"	Ø 400	Ø 16"
442136	1	600 x 400 x 150	24" x 16" x 6"	Ø 450	Ø 18"
442140	1	750 x 450 x 150	30" x 18" x 6"	Ø 450	Ø 18"
442141	1	750 x 450 x 150	30" x 18" x 6"	Ø 400	Ø 16"
442152	2	900 x 500 x 150	36" x 20" x 6"	Ø 400	Ø 16"
442153	2	900 x 500 x 150	36" x 20" x 6"	Ø 350	Ø 14"
442150	2	1150 x 550 x 150	46" x 22" x 6"	Ø 400	Ø 16"
442151	2	1150 x 550 x 150	46" x 22" x 6"	Ø 450	Ø 18"

Return Air Boxes - Insulated

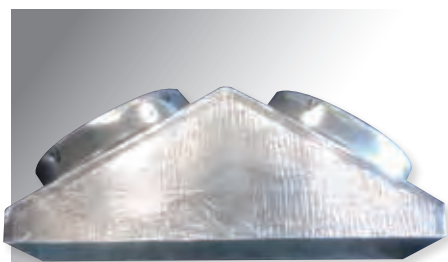


Metal Return Air Boxes sprayed with a polyurethane insulation.

Return Air Boxes - Insulated

Sizes Available/Dimensions					
Item #	Spigots	Size (L x W x H)		Spigot Size	
		mm	inch	mm	inch
442175	1	550 x 550 x 150	22" x 22" x 6"	Ø 350	Ø 14"
442176	1	550 x 550 x 150	22" x 22" x 6"	Ø 400	Ø 16"
442253	2	550 x 750 x 150	22" x 30" x 6"	Ø 350	Ø 14"
442252	1	550 x 750 x 150	22" x 30" x 6"	Ø 400	Ø 16"
442251	1	550 x 750 x 150	22" x 30" x 6"	Ø 400	Ø 16"
442254	2	550 x 750 x 150	22" x 30" x 6"	Ø 400	Ø 16"
442230	1	600 x 400 x 150	24" x 16" x 6"	Ø 350	Ø 14"
442231	1	600 x 400 x 150	24" x 16" x 6"	Ø 400	Ø 16"
442179	1	750 x 400 x 150	30" x 16" x 6"	Ø 350	Ø 14"
442180	1	750 x 400 x 150	30" x 16" x 6"	Ø 400	Ø 16"
442234	1	750 x 450 x 150	30" x 18" x 6"	Ø 400	Ø 16"
442256	1	750 x 500 x 150	30" x 20" x 6"	Ø 400	Ø 16"
442270	1	800 x 500 x 150	32" x 20" x 6"	Ø 500	Ø 20"
442199	2	900 x 400 x 150	35" x 16" x 6"	Ø 350	Ø 14"
442198	1	900 x 400 x 150	35" x 16" x 6"	Ø 400	Ø 16"
442200	2	900 x 400 x 150	35" x 16" x 6"	Ø 400	Ø 16"
442242	2	900 x 500 x 150	35" x 20" x 6"	Ø 350	Ø 14"
442241	1	900 x 500 x 150	35" x 20" x 6"	Ø 400	Ø 16"
442243	2	900 x 500 x 150	35" x 20" x 6"	Ø 400	Ø 16"
442269	1	900 x 500 x 150	35" x 20" x 6"	Ø 500	Ø 20"
442185	2	900 x 550 x 150	35" x 22" x 6"	Ø 350	Ø 14"
442186	2	900 x 550 x 150	35" x 22" x 6"	Ø 400	Ø 16"
442182	2	1150 x 550 x 150	45" x 22" x 6"	Ø 350	Ø 14"
442183	2	1150 x 550 x 150	45" x 22" x 6"	Ø 400	Ø 16"
442184	2	1150 x 550 x 150	45" x 22" x 6"	Ø 450	Ø 18"

Starter Boxes - Insulated



Starter Boxes - Insulated

Sizes Available/Dimensions					
Item #	Spigots	Size (L x W x H)		Spigot Size	
		mm	inch	mm	inch
443195	2	1010 x 260 x 400	40" x 10" x 16"	Ø 400	Ø 16"
443194	2	1035 x 345 x 350	41" x 14" x 14"	Ø 400	Ø 16"
442638	2	1150 x 250 x 350	45" x 10" x 14"	Ø 350	Ø 14"
442639	2	1150 x 250 x 350	45" x 10" x 14"	Ø 400	Ø 16"
443198	2	1150 x 250 x 350	45" x 10" x 14"	Ø 400	Ø 16"
443193	2	1160 x 395 x 400	46" x 16" x 16"	Ø 400	Ø 16"
443196	2	1170 x 285 x 350	46" x 11" x 14"	Ø 400	Ø 16"
443182	2	1275 x 275 x 400	50" x 11" x 16"	Ø 400	Ø 16"
443183	3	1275 x 375 x 400	50" x 15" x 16"	Ø 400	Ø 16"



Pre Insulated Annealed Copper Pair Coil

Suitable for 400 Series Refrigerants (R410a)

*For hassle-free installation which also
saves you time and resources, get
Polyaire Pre-Insulated Annealed
Copper Pair Coil.*

You can find more information about this product on Page 8

Collars - Castellated



Fully insulated galvanised steel. Allows for connection of round flexible duct to square sheet metal or Polypanel duct.

Castellated Collars

Sizes Available/Dimensions

Item #	Size	
	mm	inch
444005	150	6"
444006	200	8"
444007	250	10"
444008	300	12"
444009	350	14"
444010	400	16"
444011	450	18"
444012	500	20"
444013	550	22"

Collars - Plate Mounted Start



- Used to provide a connection for flexible duct to sheet metal ductwork.
- Standard plate skirts are typically made 60mm larger than the flexible duct diameter connecting to it.
- Made from galvanised steel.

Plate Mounted Collar

Sizes Available/Dimensions

Item #	Plate Size		Spigot Size	
	mm	inch	mm	inch
442614	200 x 200	8" x 8"	Ø 150	Ø 6"
442615	250 x 250	10" x 10"	Ø 200	Ø 8"
442616	300 x 300	12" x 12"	Ø 250	Ø 10"
442617	350 x 350	14" x 14"	Ø 300	Ø 12"
442618	400 x 400	16" x 16"	Ø 350	Ø 14"
442619	450 x 450	18" x 18"	Ø 400	Ø 16"
442620	500 x 500	20" x 20"	Ø 450	Ø 18"
442621	550 x 550	22" x 22"	Ø 500	Ø 20"
442622	600 x 600	24" x 24"	Ø 550	Ø 22"

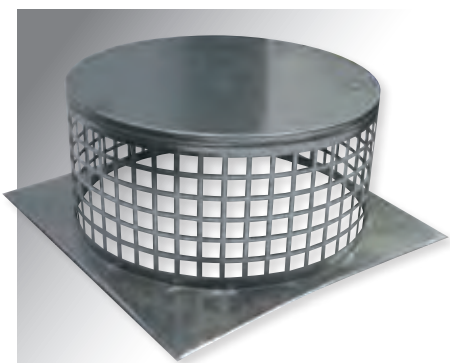


Plate Mounted Collar + Mesh

Sizes Available/Dimensions

Item #	Neck Size		Spigot Size	
	mm	inch	mm	inch
442624	350 x 350	14" x 14"	Ø 300	Ø 12"
442625	400 x 400	16" x 16"	Ø 350	Ø 14"
442626	450 x 450	18" x 18"	Ø 400	Ø 16"

Collars - Plate Mounted Start - Top Hats



- Made from sheet metal.
- Comes in various sizes in circular and ovalised.
- Generally used for gas heating installations, specifically where a return air is going to be located in a cupboard or under the stairs.

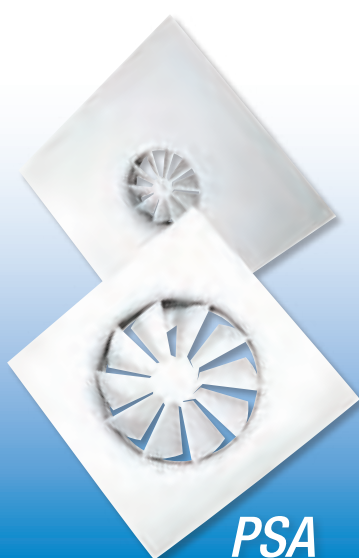
Perforated Return Air Top Hat

Sizes Available/Dimensions			
Item #	Description	Nominal Size	
		mm	inch
442776	Adaptor M RA Top Hat Duct	Ø 250	Ø 10"
442777	Adaptor M RA Top Hat Duct	Ø 300	Ø 12"
442778	Adaptor M RA Top Hat Duct	Ø 350	Ø 14"
442779	Adaptor M RA Top Hat Duct	Ø 400	Ø 16"
442633	Adaptor M RA Top Hat Oval Perf	EQ Ø 300	EQ Ø 12"
442634	Adaptor M RA Top Hat Oval Perf	EQ Ø 350	EQ Ø 14"

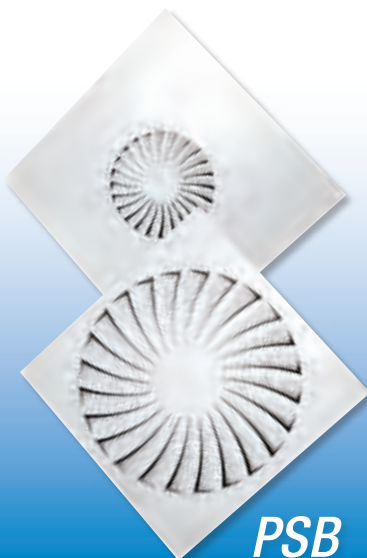
EQ: Equivalent

polyaire
AIRCONDITIONING PRODUCTS

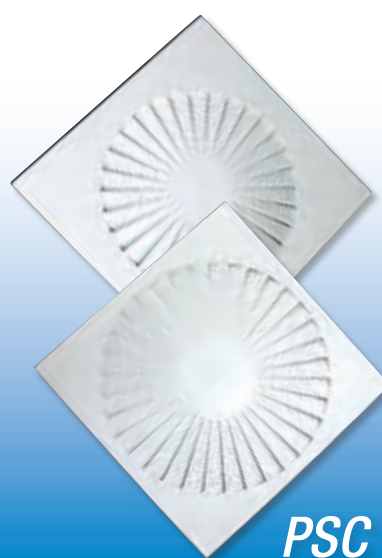
Swirl Diffusers



PSA



PSB

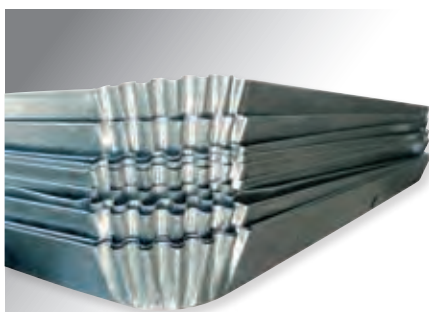


PSC

*Let us help you find an efficient solution for quick exchange of high air volumes for small or big rooms with our range of **Swirl Diffusers**.*

You can find more information about these products on Page 100

Drip Trays - Seamless



Features

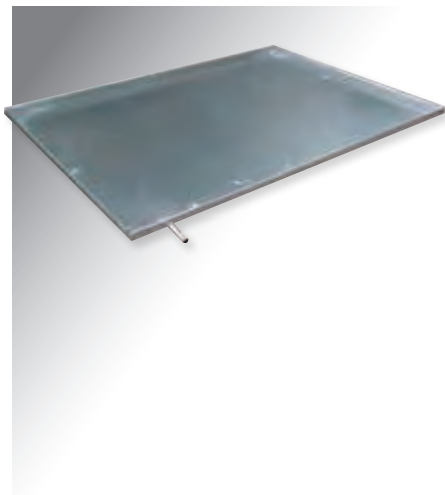
- Fully Galvanised for long life, no soldered seams to leak or rust.
- Folded edges, no sharp edges to cut or rust. More rigid than standard soldered trays.
- Fully stackable, easy to transport.
- Nested stacking reduces wasted space by approximately 80%.
- No protruding spigots to crack or damage during transit or installation; Uses screw on Spigot with two neoprene washers to take 20mm drain tube.
- Seamless formed corners eliminate leaks and are rounded for easy cleaning.
- Neat Professional appearance adds value to job.
- 6 Tray sizes to fit most common ducted units 1730 x 830 / 1500 x 950 / 1430 x 830 / 1130 x 830 / 830 x 830 / 1250 x 750

Seamless Drip Trays

Sizes Available/Dimensions

Item #	Size (L x W x H)	
	mm	inch
469254	830 x 830 x 50	35" x 35" x 2"
469252	1130 x 830 x 50	47" x 35" x 2"
469253	1430 x 830 x 50	59" x 35" x 2"
469255	1730 x 830 x 50	71" x 35" x 2"
469256	1250 x 750 x 50	52" x 32" x 2"
469251	1500 x 950 x 50	61" x 40" x 2"

Drip Trays - Standard



Polyaire has an extensive range of drip trays to suit most applications.

Trays are manufactured from galvanised steel and fitted with a corner drain outlet as required.

Standard Drip Trays

Sizes Available/Dimensions

Item #	Size (L x W x H)	
	mm	inch
462524	1130 x 830 x 50	45" x 33" x 2"
469196	1250 x 750 x 50	49" x 30" x 2"
469194	1350 x 950 x 50	53" x 37" x 2"
462526	1430 x 830 x 50	56" x 33" x 2"
462525	1430 x 1130 x 50	56" x 45" x 2"
462581	1500 x 550 x 50	59" x 22" x 2"
462582	1500 x 650 x 50	59" x 26" x 2"
469246	1500 x 950 x 50	59" x 37" x 2"
469193	1550 x 750 x 50	61" x 30" x 2"
462528	1730 x 830 x 50	68" x 33" x 2"
462527	1730 x 1130 x 50	68" x 45" x 2"
462529	830 x 830 x 50	33" x 33" x 2"

Joiners - Metal



Features

- Super strong metal construction.
- Connects two pieces of flexible duct together.
- Available in 10 different sizes.

Joiners

Item #	Sizes Available/Dimensions		
	mm	Size	inch
442535	150		6"
442536	200		8"
442537	250		10"
442538	300		12"
442539	350		14"
442540	400		16"
442541	450		18"
442542	500		20"
442543	550		22"
442544	600		24"

Quick Fix Motorised & Manual Metal Blade Dampers

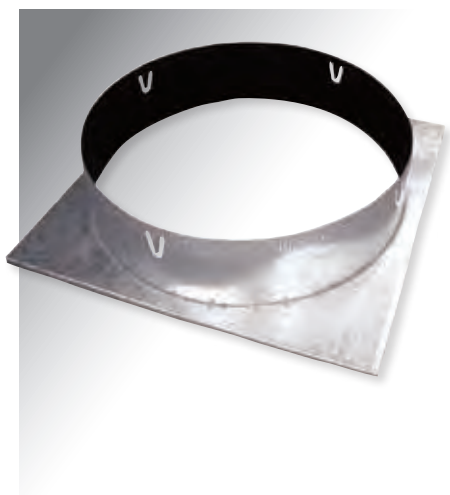


*With Polyaire's unique cable tie duct fixing for faster,
more positive duct attachment and no leaks*

6 SIZES 150 / 200 / 250 / 300 / 350 / 400mm

You can find more information about these products on Page 50

Neck Adaptor - Square to Round



Features

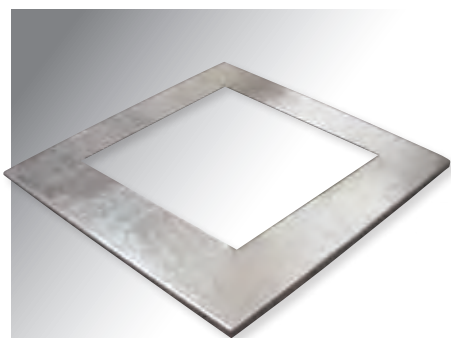
- Made from galvanised steel.
- Available in various sizes from 150mm to 500mm

Neck Adaptor - Metal - Square to Round

Sizes Available/Dimensions

Item #	Neck Size		Spigot Size	
	mm	inch	mm	inch
442546	150 x 150	6" x 6"	Ø 150	Ø 6"
442547	200 x 200	8" x 8"	Ø 150	Ø 6"
442548	200 x 200	8" x 8"	Ø 200	Ø 8"
449085	250 x 250	10" x 10"	Ø 150	Ø 6"
442549	250 x 250	10" x 10"	Ø 200	Ø 8"
442550	250 x 250	10" x 10"	Ø 250	Ø 10"
449086	300 x 300	12" x 12"	Ø 150	Ø 6"
442551	300 x 300	12" x 12"	Ø 200	Ø 8"
442552	300 x 300	12" x 12"	Ø 250	Ø 10"
442553	300 x 300	12" x 12"	Ø 300	Ø 12"
442554	350 x 350	14" x 14"	Ø 200	Ø 8"
442555	350 x 350	14" x 14"	Ø 250	Ø 10"
442556	350 x 350	14" x 14"	Ø 300	Ø 12"
442912	350 x 350	14" x 14"	Ø 350	Ø 14"
449087	400 x 400	16" x 16"	Ø 200	Ø 8"
442557	400 x 400	16" x 16"	Ø 250	Ø 10"
442558	400 x 400	16" x 16"	Ø 300	Ø 12"
442559	400 x 400	16" x 16"	Ø 350	Ø 14"
442560	400 x 400	16" x 16"	Ø 400	Ø 16"
447078	450 x 450	18" x 18"	Ø 200	Ø 8"
447079	450 x 450	18" x 18"	Ø 250	Ø 10"
447080	450 x 450	18" x 18"	Ø 300	Ø 12"
442564	450 x 450	18" x 18"	Ø 350	Ø 14"
442565	450 x 450	18" x 18"	Ø 400	Ø 16"
442913	450 x 450	18" x 18"	Ø 450	Ø 18"
442566	500 x 500	20" x 20"	Ø 200	Ø 8"
442567	500 x 500	20" x 20"	Ø 250	Ø 10"
442568	500 x 500	20" x 20"	Ø 300	Ø 12"
442569	500 x 500	20" x 20"	Ø 350	Ø 14"
442570	500 x 500	20" x 20"	Ø 400	Ø 16"
442571	500 x 500	20" x 20"	Ø 450	Ø 18"
442572	500 x 500	20" x 20"	Ø 500	Ø 20"

Neck Adaptor - Square to Square



Features

- Made from galvanised steel.
- Available in various spigot sizes.

Neck Adaptor - Metal - Square to Square

Sizes Available/Dimensions				
Item #	Neck Size		Spigot Size	
	mm	inch	mm	inch
442958	450 x 450	18" x 18"	Ø 150 x 150	Ø 6" x 6"
442959	450 x 450	18" x 18"	Ø 225 x 225	Ø 9" x 9"
442960	450 x 450	18" x 18"	Ø 300 x 300	Ø 12" x 12"
442961	450 x 450	18" x 18"	Ø 375 x 375	Ø 15" x 15"

Roof Cowl Kits



Features

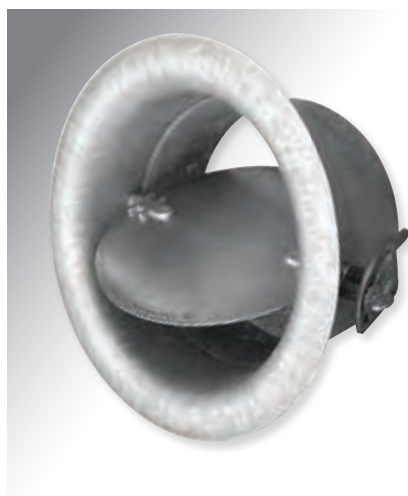
- Low pressure drop
- Kit contains Cowl, Tube and Dektite
- Easy installation

Roof Cowl Kits

Sizes Available/Dimensions		
Item #	Description	Diameter
124831	Freshair Tube & Hat 150	Ø 150
124830	Freshair Tube & Hat 200	Ø 200
124829	Freshair Tube & Hat 250	Ø 250

Contains: Cowl, Tube & DEKTITE

Spigots - Spun Bell Mouth c/w Damper



Features

- Manufactured using galvanised steel.
- Available in various sizes from 150mm to 350mm.
- A high efficiency product which saves energy.
- Suitable for both high and low velocity applications.

Spun Spigot c/w Damper (Bell Mouth)

Sizes Available/Dimensions			
Item #	Size		inch
	mm		
444476	Ø 150		Ø 6"
444477	Ø 200		Ø 8"
444478	Ø 250		Ø 10"
444479	Ø 300		Ø 12"
444480	Ø 350		Ø 14"



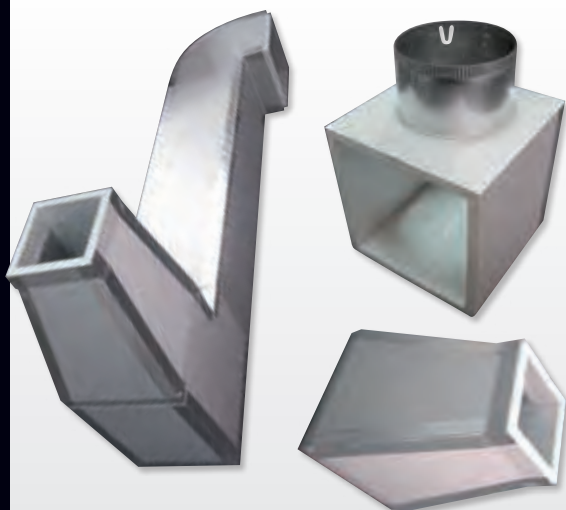


POLYPANEL

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polypanel!

5 ZERO RIGID DUCT



ALUMINIUM EXTERIOR OF THE DUCT

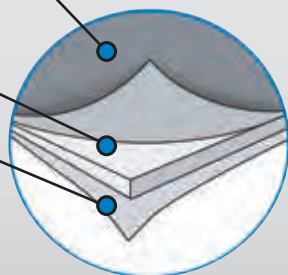
Embossed aluminium creates a sturdy exterior which will protect against impact. The lacquer coating increases corrosion resistance.

PIR (Polyisocyanurate) Board

Durable, light & good insulation.

ALUMINIUM INTERIOR OF THE DUCT

Coated with translucent lacquer providing low vapour permeability and preventing air pollution within the duct.



Polypanel is a tested and proven alternative to sheet metal ducting and components.

It is widely accepted and currently in use in major domestic and commercial projects throughout the world. (In the United Arab Emirates, the location of highest rate of building development per capita, Pre insulated Aluminium board has taken over in excess of 50% market share in last 4 years)

Comprising closed cell polyisocyanurate foam enclosed in two layers of aluminium textured sheet, this product offers superior features and benefits to both the installer and end user, including light weight, strength, ease of fabrication, low vapour permeability and superior hygiene characteristics.

Polypanel Ducting

- Can be fitted closer to ceilings than galvanised sheet as no space need be left for insulation cladding. This saves on ceiling cavity height.
- Can be fitted to fibrous cement and suspended ceilings due to light weight.
- Minor adjustments can often be made on site without the need to fabricate a new section in the factory. This saves both time and money.
- Requires less machinery to position in place due to light weight.

Where can you use Polypanel?

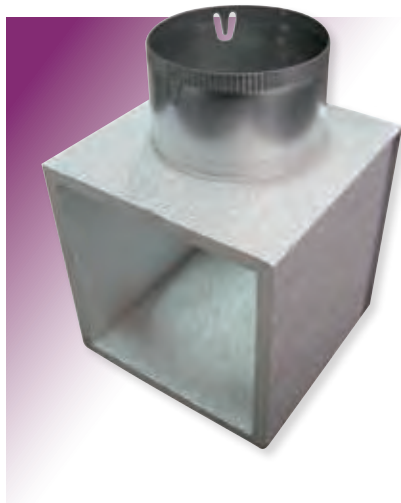
- Hospitals
- Commercial high rise buildings
- Wineries
- Domestic buildings and apartments
- Pharmaceutical Cleanrooms
- Factories/ Commercial Offices
- Anywhere where indoor air quality is important and/or when you have installation, schedule and cost constraints.



Comparison Chart

Properties	Steel Duct	Polypanel	Remarks
Insulation	Additional insulation required at extra cost to fabricate and install	Pre-insulation sandwich between two aluminium sheets. No extra process required	Pre-insulated Polypanel has better insulation consistency and good vapour barrier
Weight	0.8 gauge: 6.5kg/m ² 1.0 gauge: 8.1kg/m ²	Polypanel 20/35 = 1.10kg/m ² Polypanel 20/45 = 1.30kg/m ² Polypanel 30/35 = 1.85kg/m ²	Polypanel is less than 25% of steel duct weight. Requires less machinery and manpower to install
Noise	High noise generation and transfer	Limited reverberation effect	GI duct hard surfaces promote sound propagation and resonance. Polypanel tends to absorb rather than reflect sound
Corrosion	By water vapour in air	Not affected by water vapour	Corrosion in GI ducts is even more common in coastal regions
Chemical	Rapid corrosion by chemical reaction in air	Strong chemical resistance	External aluminium surface of Polypanel is coated with lacquer
Installation	Hard to cut, bend and install	Easy, light & fast to install	Fast fabrication and installation of Polypanel ducts
Maintenance	Difficult, requires tradesmen and equipment	Easy, Simple tools and simple process to repair, renew or adjust	Blanket insulation for steel ducts may be easily damaged and is difficult & expensive to repair or replace
Durability	About 10 years	Semi-permanent	Polypanel , though lightweight, is remarkably stable
Cost	Expensive	More effective Price-Quality relationship than GI duct and insulation	Overall Polypanel system is cheaper than GI plus insulation

Cushion Boxes - 20mm Polypanel



Anywhere where indoor air quality is important and/or when you have installation, schedule and cost constraints. Polypanel starter boxes, plenums and return air boxes are light, durable and easier to fit than traditional metal. They can be made in any sizes and are easy to handle.

Features

- Lightweight
- Insulated
- Easy to get into the roof
- Easy to attach duct
- A real time saver

Polypanel products are widely accepted and currently in use in major domestic and commercial Projects. Comprising of closed cell polyisocyanurate foam enclosed in two layers of aluminium textured sheet, this product offers superior features and benefits to both the installer and end user, including light weight, strength, ease of fabrication, low vapour permeability and superior hygiene characteristics.

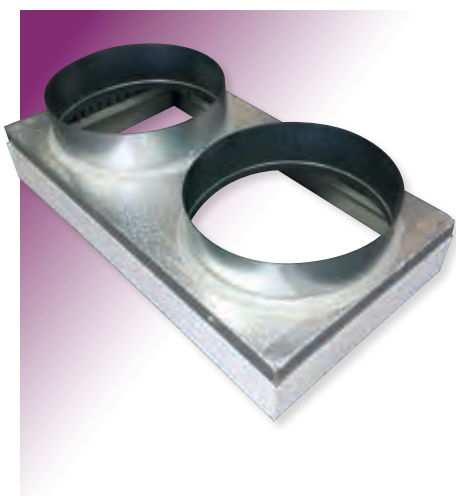
Polypanel can be used in:

- Hospitals
- Commercial high rise buildings
- Wineries
- Domestic buildings and apartments
- Pharmaceutical Cleanrooms
- Factories/ Commercial Offices

Cushion Boxes - 20mm Polypanel

Sizes Available/Dimensions				
Item #	Size (L x W x H)		Spigot Size	
	mm	inch	mm	inch
482547	555 x 555 x 250	22" x 22" x 10"	150	6"
482548	555 x 555 x 300	22" x 22" x 12"	200	8"
482549	555 x 555 x 350	22" x 22" x 14"	250	10"
482550	555 x 555 x 400	22" x 22" x 16"	300	12"
482551	555 x 555 x 450	22" x 22" x 18"	350	14"

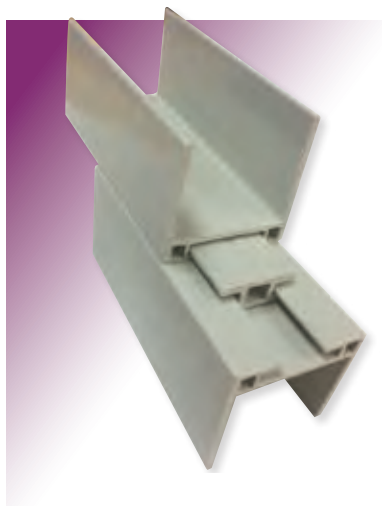
Return Air Boxes - 20mm Polypanel



Return Air Boxes - 20mm Polypanel

Sizes Available/Dimensions					
Item #	Spig-ots	Size (L x W x H)		Spigot Size	
		mm	inch	mm	inch
483002	1	550 x 550 x 150	22" x 22" x 6"	350	14"
483003	1	550 x 550 x 150	22" x 22" x 6"	400	16"
483010	1	600 x 400 x 150	24" x 16" x 6"	350	14"
483011	1	600 x 400 x 150	24" x 16" x 6"	400	16"
483031	2	750 x 550 x 150	30" x 22" x 6"	350	14"
483032	2	750 x 550 x 150	30" x 22" x 6"	400	16"
483043	2	900 x 500 x 150	36" x 20" x 6"	350	14"
483044	2	900 x 500 x 150	36" x 20" x 6"	400	16"
483046	2	900 x 550 x 150	36" x 22" x 6"	350	14"
483047	2	900 x 550 x 150	36" x 22" x 6"	400	16"
483051	2	1150 x 550 x 150	46" x 22" x 6"	400	16"
483052	2	1150 x 550 x 150	46" x 22" x 6"	450	18"

Polypanel Extrusion & Components



Polypanel Extrusion & Components

Sizes Available/Dimensions

Item #	Description	Size	
		Width (mm)	Length (m)
635261	Extrusion T Connect - PVC	20	4
635266	Extrusion T Connect - PVC	30	4
129274	F Extrusion - Aluminium	20	4
635255	F Extrusion - PVC	20	4
635267	F Extrusion - PVC	30	4
635268	F Extrusion - PVC	40	4
635259	Flange Extrusion - PVC	20	4
635265	Flange Extrusion - PVC	30	4
129275	H Extrusion - Aluminium	20	4
635251	H Extrusion - PVC	20	4
635258	H Extrusion - PVC	40	4
635260	H Extrusion BAYONET - PVC	20	4
635256	H Extrusion HIGH BACK - PVC	20	4
635269	U Extrusion - Aluminium	42	4
169273	PVC Dual Corners		
169272	PVC Single Angle		
639274	Galvanised Corner Angles		

Polypanel Spigots



Polypanel Spigots

Sizes Available/Dimensions

Item #	Spigot Size	
	mm	inch
124818	Ø 100	Ø 4"
124819	Ø 150	Ø 6"
124820	Ø 200	Ø 8"
124821	Ø 250	Ø 10"
124822	Ø 300	Ø 12"
124823	Ø 350	Ø 14"
124824	Ø 400	Ø 16"
124825	Ø 450	Ø 18"
124826	Ø 500	Ø 20"
124827	Ø 550	Ø 22"
124828	Ø 600	Ø 24"

SAMSUNG*Air Conditioning Systems*

Polyaire supplies a complete range of Samsung products which are superior in quality and allows you to achieve the ideal room temperature quickly and efficiently.

Distributed by **polyaire**





TECHNICAL

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Acutherm's Therma-Fuser™ diffusers are ceiling diffusers with built in room thermostats and dampers for varying the air volume. The dampers are continuously adjusted by thermostat/actuators that are both room temperature sensors and damper motors.

Non electric thermostat/ actuators are brass cylinders containing a petroleum distillate wax that melts when heated and expands at precise temperatures, like those in the aerospace industry, positioning the damper in a proportional manner.

Thermostat/actuators open and close the dampers to vary the volume of air flow (warm or cold) into the room in response to room temperature. Room temperature is measured by inducing a sample of air from the room across the thermostat.

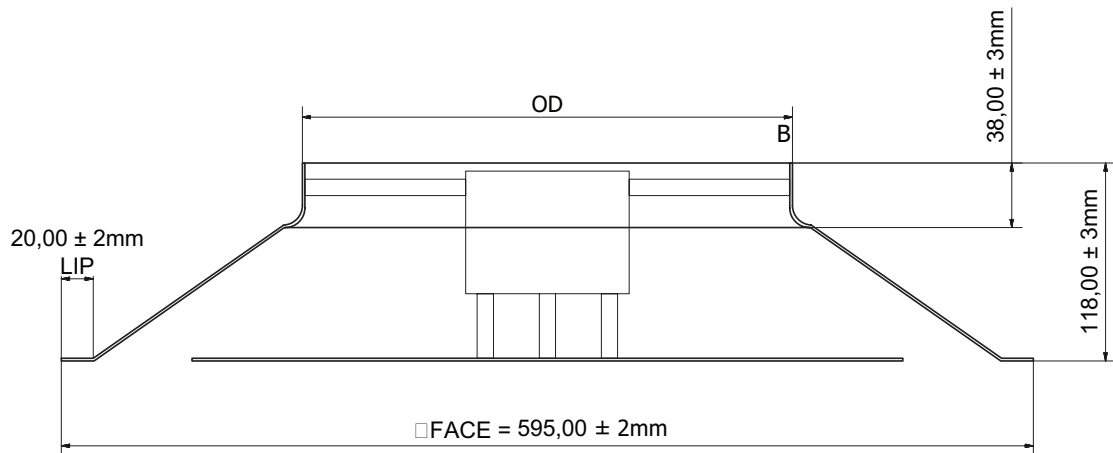
When supply air is warm, the Therma-Fuser diffuser operates in the heating mode and the dampers open on a drop in room temperature. When the supply air is cold, the diffuser operates in the cooling mode and the dampers open on a rise in room temperature.

Separate room temperature set points for heating and cooling are adjusted by aligning the indicators along °F or °C temperature scales.

Standard finish is powder coat white.

Features

- Face Size: 595 x 595 for lay-in T-Bar ceiling installations
- Inlet Diameter: 150 / 200 / 250 / 300 mm
- Pressure ranges: 12 to 62 Pa
- Air volumes: 50 to 350 l/s



Curved Blade Diffusers

MODEL ACBD



The Polyaire CBD Curved Blade Diffuser is designed for ceiling supply air applications.

Curved Blade Diffusers provide great flexibility as they are available in 1, 2, 3 and 4 way airflow patterns. The air distribution pattern can further be varied from horizontal to vertical by adjustment of the blades.

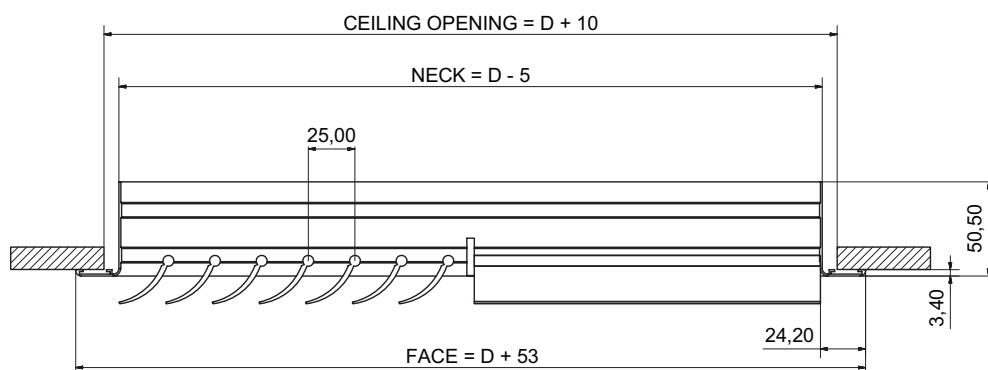
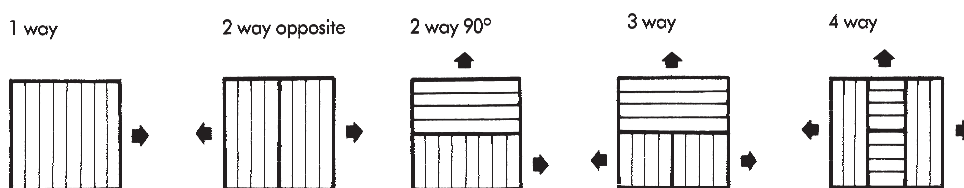
The curved blade profile creates minimum noise.

Manufactured from extruded aluminium the core can be provided as fixed or removable core.

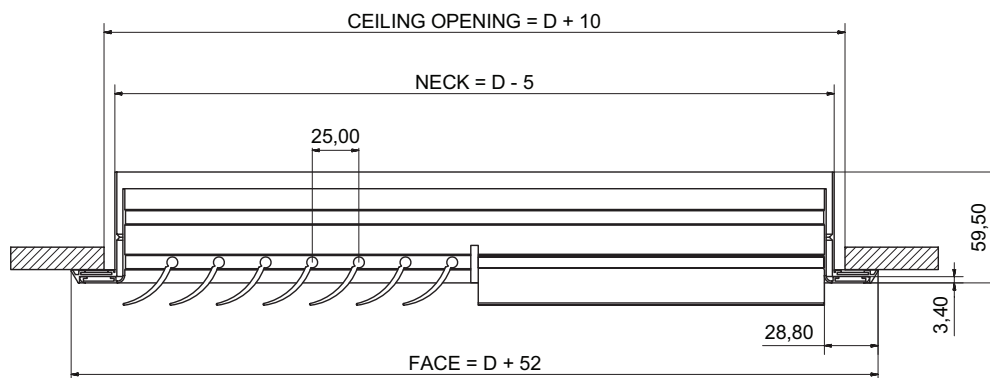
Standard frame flange is 25mm. 32mm flange available on request.

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

Aluminium Curved Blade Diffusers are manufactured to order.



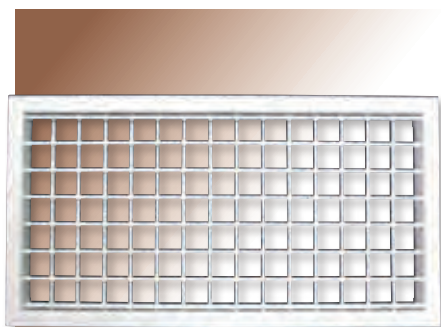
MODEL ACBD



MODEL ACBD-RC

Deflection Registers - Double

MODEL WSD



Universal Outlets or Double Deflection Registers are generally used in sidewall applications. They consist of two separate rows of individually adjustable vanes.

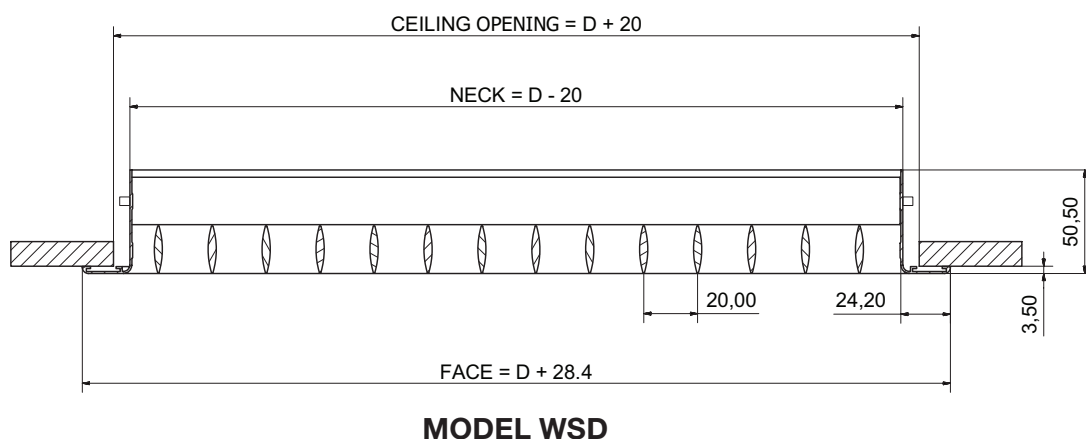
The FRONT VANES are horizontal so the primary air leaving the outlet is directed above the room occupants and does not reach the occupied zone until well mixed with the secondary room air.

The REAR VANES are vertical and are used to direct the air in a straight blow or spread the air as required by the room layout. If required, air flow can be directed at an angle to one or both sides, and still retain a near-parallel air stream pattern.

Construction is all extruded aluminium horizontal and vertical blades, retained in a fixed or removable Core. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

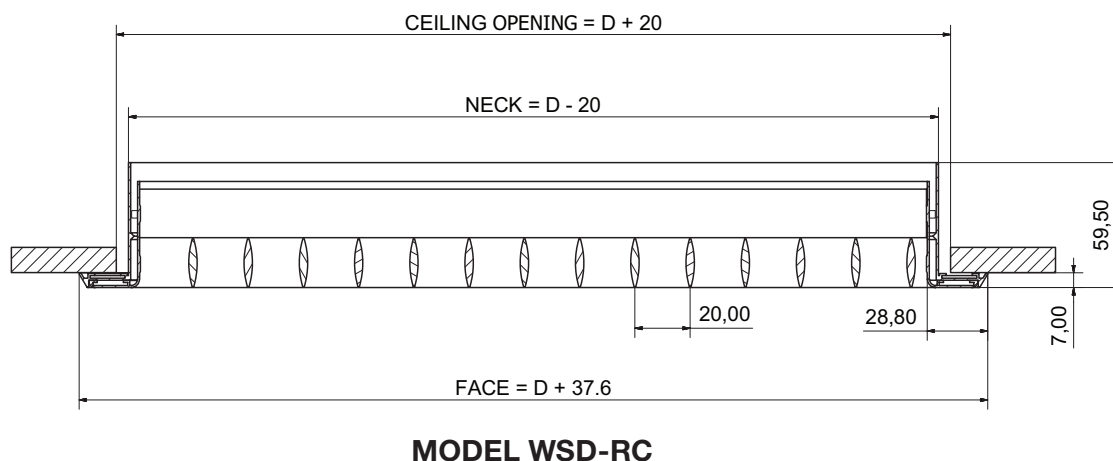
Curved Face double Deflection Registers can also be manufactured to suit Spiral Duct Installations.

Double Deflection Registers can be manufactured in a wide range of sizes other than the stock sizes listed below.



Deflection Registers - Double

MODEL WSD-RC



Technical Data - WSD

SIZE (mm)		Airflow (l/s)										
		35	60	100	200	300	450	600	800	1000	1500	2000
200 x 150	Total Pressure (PA)	<2	5	16	44	-	-	-	-	-	-	-
	Throw (m)	2	3.5	6	10	-	-	-	-	-	-	-
	Neck Velocity (m/s)	1.2	2	3.2	6	-	-	-	-	-	-	-
	NR Level	-	<10	20	40	-	-	-	-	-	-	-
350 x 150	Total Pressure (PA)	-	<2	4.4	17.1	42.6	-	-	-	-	-	-
	Throw (m)	-	2.3	4.6	8.1	12.6	-	-	-	-	-	-
	Neck Velocity (m/s)	-	1	1.9	3.4	5.6	-	-	-	-	-	-
	NR Level	-	-	<10	25	43	-	-	-	-	-	-
400 x 200	Total Pressure (PA)	-	-	2	7	20.6	42.7	-	-	-	-	-
	Throw (m)	-	-	3.2	7	10.4	14.7	-	-	-	-	-
	Neck Velocity (m/s)	-	-	1.3	2.4	3.8	5.5	-	-	-	-	-
	NR Level	-	-	<10	16	32	44	-	-	-	-	-
600 x 300	Total Pressure (PA)	-	-	-	<2	4.1	8.2	15.3	25	-	-	-
	Throw (m)	-	-	2	4.6	7.5	10.4	13.4	17	-	-	-
	Neck Velocity (m/s)	-	-	0.5	1	1.8	2.5	3.3	4.2	-	-	-
	NR Level	-	-	-	<10	12	23	34	42	-	-	-
900 x 400	Total Pressure (PA)	-	-	-	-	<2	2.3	4.6	7.5	11	-25-	-
	Throw (m)	-	-	-	-	5.6	8	10	12.5	15	-21-	-
	Neck Velocity (m/s)	-	-	-	-	0.9	1.4	1.9	2.4	2.9	4.1	-
	NR Level	-	-	-	-	-	<10	18	25	33	44	-
1200 x 400	Total Pressure (PA)	-	-	-	-	-	-	2	4.5	7	12.5	24
	Throw (m)	-	-	-	-	-	-	8.7	11.5	13.5	18.4	22
	Neck Velocity (m/s)	-	-	-	-	-	-	1.4	1.8	2.2	3	3.9
	NR Level	-	-	-	-	-	-	10	18	24	37	44
1600 x 450	Total Pressure (PA)	-	-	-	-	-	-	-	2	3.3	6	10
	Throw (m)	-	-	-	-	-	-	7.8	9.4	11.5	16	19.2
	Neck Velocity (m/s)	-	-	-	-	-	-	-	1.3	1.3	2.3	2.7
	NR Level	-	-	-	-	-	-	<10	10	15	28	36

Notes:

1. Terminal Velocity is based at 0.25 m/s
2. NR value is based on a room absorbtion of 10 dB. Settings of 22° and 45° will have an increased sound level of 1 and 7 NR respectively

Deflection Registers - Double Curved Face MODEL WSD-CF



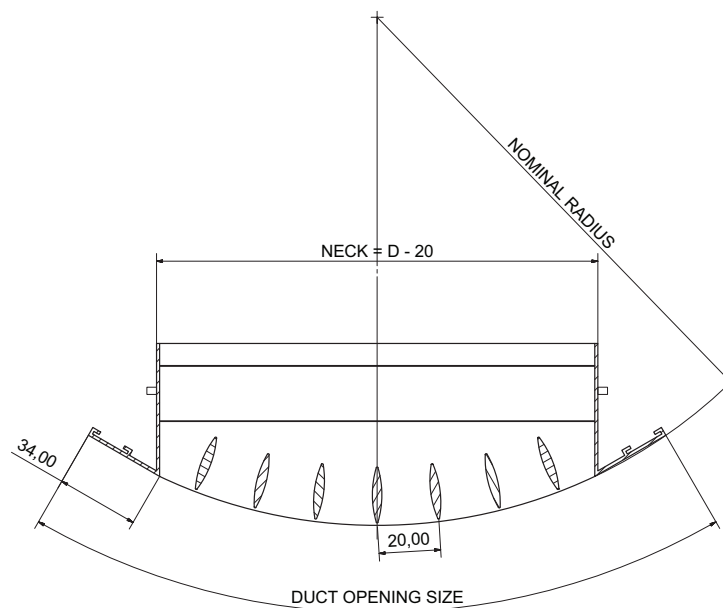
Curved Face Double Deflection Registers are manufactured to suit installations on circular or oval Spiral Duct.

They consist of two separate rows of individually adjustable vanes and the frame is curved to suit the diameter of the Spiral Duct

The FRONT VANES are horizontal so that the primary air leaving the outlet is directed above the room occupants and does not reach the occupied zone until well mixed with the secondary room air.

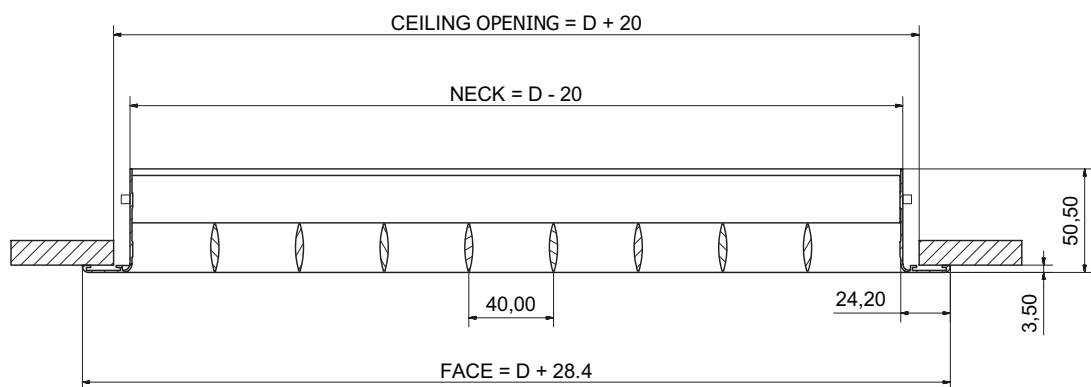
The REAR VANES are vertical and are used to direct the air in a straight blow or spread the air as required by the room layout. If required, air flow can be directed at an angle to one or both sides, and still retain a near-parallel air stream pattern.

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



MODEL WSD-CF

Deflection Registers - Double High Velocity MODEL WSD-HV



MODEL WSD-HV

Deflection Registers - Single

MODEL WSS



Single Deflection Registers are generally used in sidewall applications. They consist of a single row of individually adjustable horizontal vanes.

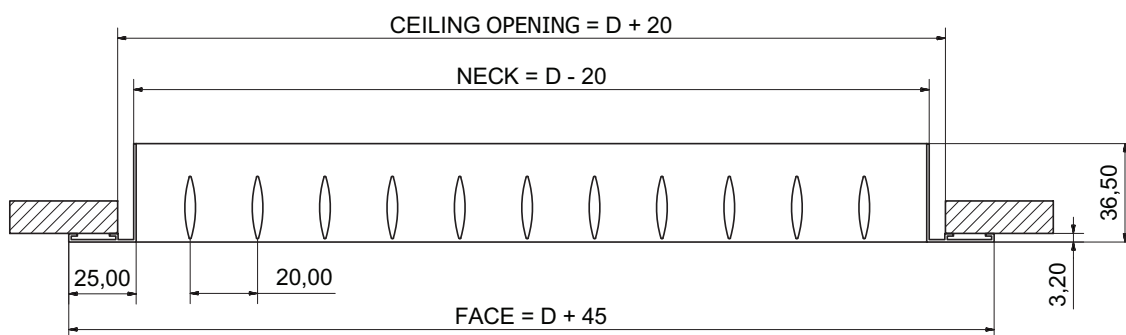
The FRONT VANES are horizontal so the primary air leaving the outlet is directed above the room occupants and does not reach the occupied zone until well mixed with the secondary room air.

Construction is all extruded aluminium horizontal blades, retained in a fixed or removable core.

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

Curved Face Single Deflection Registers can also be manufactured to suit Spiral Duct Installations.

Single Deflection Registers are manufactured to order in a wide range of sizes.



MODEL WSS

Half Chevron Louvre Grilles

MODEL WL



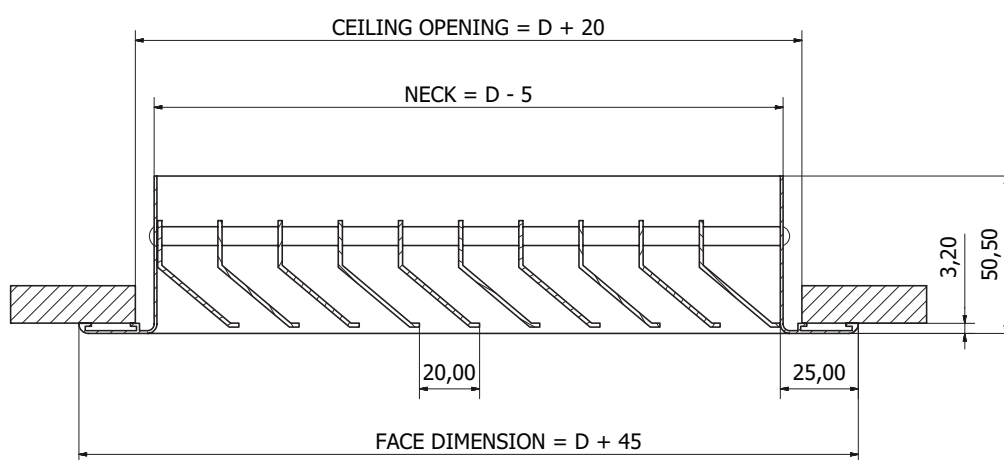
Polyaire Model WL Half Chevron Louvre Grilles are generally used as Wall Return Air Grilles, and are also suitable for exhaust and relief air applications.

Construction is from all aluminium extrusion with fixed half chevron blades.

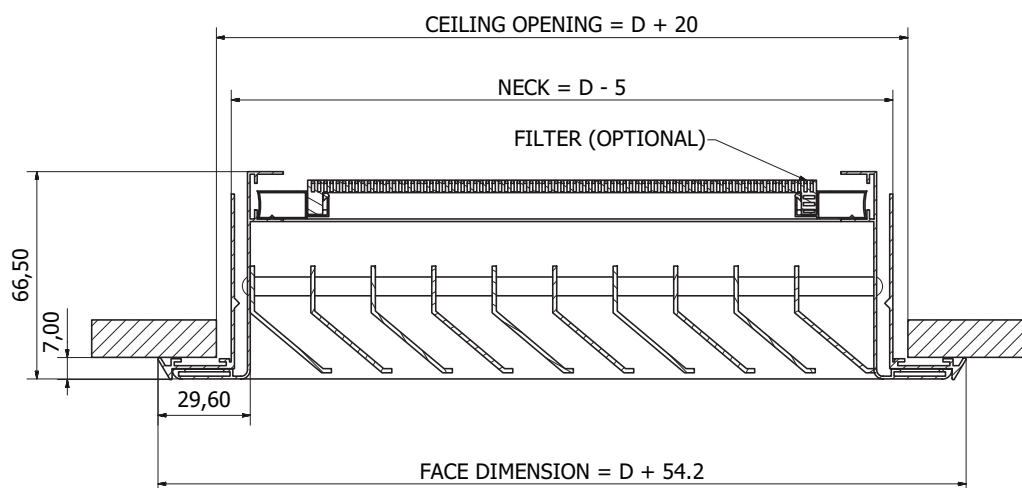
The core can be fixed, removable, hinged or hinged complete with panel filter. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

Model WL Louvre Grilles are manufactured to order in a wide range of sizes.

Free area is 63%



WL



WL-RC

Half Chevron Louvre Grilles

MODEL WL-RC



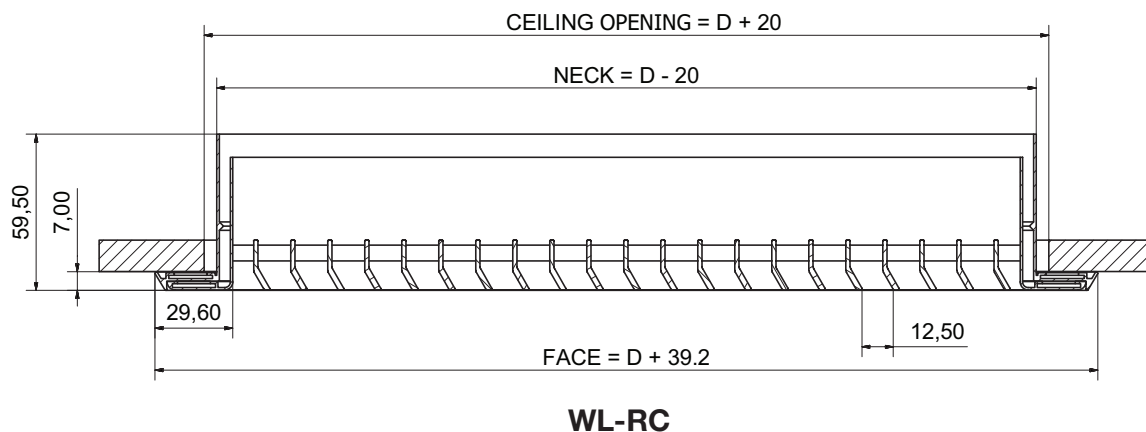
Polyaire Model WL-RC Half Chevron Louvre Grilles are generally used as Wall Return Air Grilles, and are also suitable for exhaust and relief air applications.

Construction is from all aluminium extrusion with fixed half chevron blades.

The core can be fixed, removable, hinged or hinged complete with panel filter. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

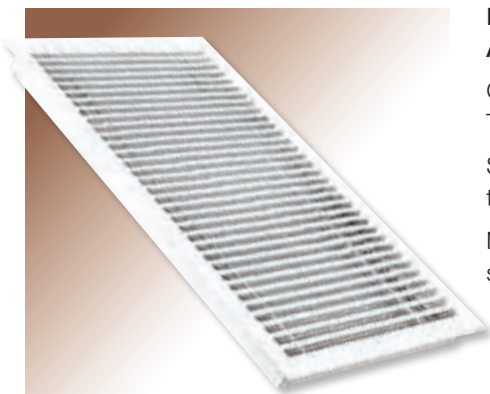
Model WL-RC Louvre Grilles are manufactured to order in a wide range of sizes.

Free area is 63%



Half Chevron Louvre Grilles

MODEL WL-CV

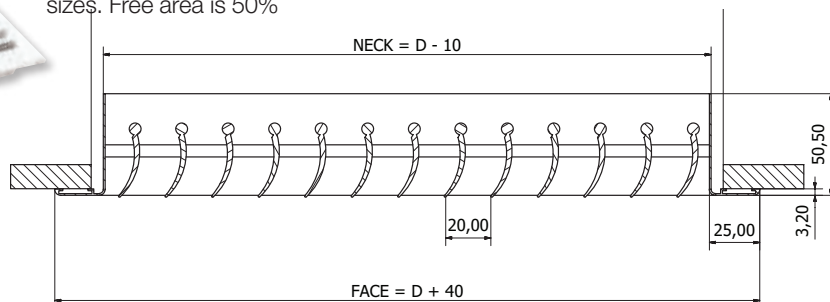


Polyaire Model WL-CV Louvre Grilles are generally used as Wall Return Air Grilles, and are also suitable for exhaust and relief air applications.

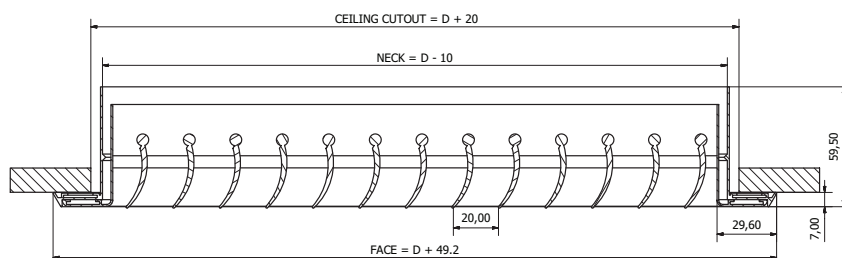
Construction is from all aluminium extrusion with fixed curved vane blades. The core can be fixed, removable, hinged or hinged complete with panel filter.

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

Model WL-CV Louvre Grilles are manufactured to order in a wide range of sizes. Free area is 50%



WL-CV



WL-CV-RC

Jet Diffusers - Eyeball

MODEL EJD

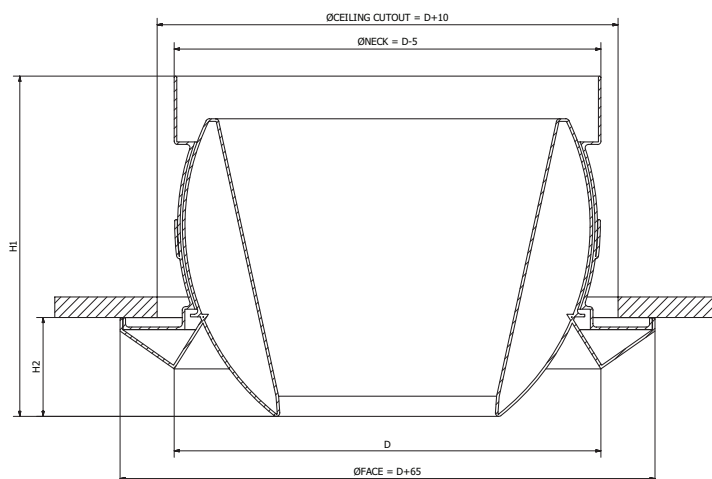


The Eyeball Jet Diffuser model EJD has been designed for long distance air throw applications providing an aesthetic alternative for handling large volumes of air.

The outlet direction can be regulated by rotation of the centre ball in any direction. Typical applications include Entertainment and Sports Venues, Airports, Shopping Centre, Warehouses and Industrial Areas.

Construction is from spun aluminium Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements

Available sizes include 150, 200, 250, 300 and 350mm Diameter.



Jet Diffusers

MODEL JAD

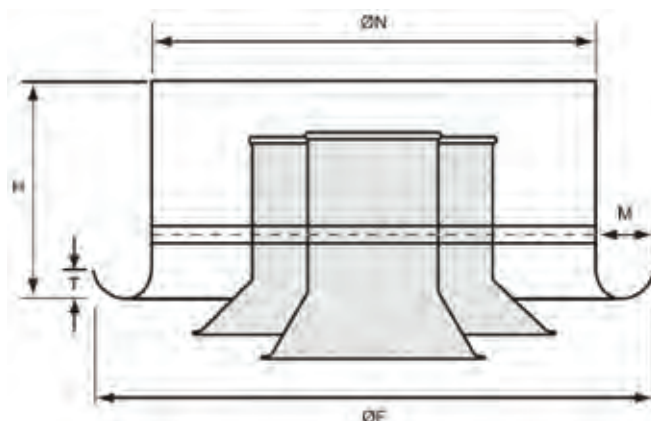


The Polyaire JAD Jet Diffuser is designed for the supply of large air volumes where long throw distances are required. Polyaire Jet Diffusers are used extensively in large areas and high ceiling applications such as Sports Centres, Airports, Entertainment Complexes, Shopping Centres and Industrial areas.

Jet Diffusers are also used for Spot Cooling or Heating and the Jet diffuser can be rotated by 180 degree by adjusting the core, changing the throw pattern from Jet to Diffused Mode.

The Polyaire Jet Diffuser is available as a single unit or alternatively multiple units can be mounted in a panel. Construction is from spun aluminium.

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



Model JAD

Sizes Available/Dimensions

Size	ØN	ØF	H	M	T
200	198	264	92	33	15
250	248	312	123	33	16
300	295	375	149	40	18
350	345	425	172	40	18
400	395	495	179	50	18
500	495	595	248	50	26
600	595	715	300	60	30

Jet Ball Diffusers

Jet Ball Diffusers



Description

Model	Description
245320	Jet Ball Diffuser 200
245321	Jet Ball Diffuser 250
245322	Jet Ball Diffuser 350
245323	Jet Ball Diffuser 315
245324	Jet Ball Diffuser 400

Performance Data

Diffused Mode								
SIZE (mm)	SELECTION PARAMETER	Neck Air Velocity (m/s)						
		1.5	2.0	2.5	3.0	3.5	4.0	5.0
200	Airflow Rate (l/s)	50	63	85	99	118	132	165
	Throw (m) Min-Max	2 - 3	2 - 4	3 - 5	4 - 6	5 - 6	5 - 7	6 - 10
	Pressure Loss (Pa)	8	15	22	33	45	59	90
	NR Level			18	26	30	35	45
250	Airflow Rate (l/s)	80	103	132	155	183	207	260
	Throw (m) Min-Max	2 - 4	3 - 5	4 - 6	5 - 7	6 - 9	7 - 11	8 - 13
	Pressure Loss (Pa)	8	12	21	29	44	53	88
	NR Level			23	28	34	38	46
300	Airflow Rate (l/s)	101	135	169	203	232	266	333
	Throw (m) Min-Max	2 - 5	5 - 7	8 - 9	10 - 11	12 - 14	14 - 16	16 - 17
	Pressure Loss (Pa)	8	10	19	26	33	49	75
	NR Level			24	28	34	38	47
350	Airflow Rate (l/s)	124	165	207	249	284	326	408
	Throw (m) Min-Max	3 - 5	6 - 7	8 - 10	10 - 12	13 - 15	16 - 17	18 - 20
	Pressure Loss (Pa)	8	11	18	25	35	48	70
	NR Level			25	28	34	38	48
400	Airflow Rate (l/s)	197	263	329	394	460	526	658
	Throw (m) Min-Max	3 - 6	5 - 8	10 - 11	11 - 13	14 - 15	16 - 18	19 - 21
	Pressure Loss (Pa)	8	14	18	29	41	52	65
	NR Level			28	35	40	43	50
500	Airflow Rate (l/s)	310	413	517	616	719	822	
	Throw (m) Min-Max	6 - 8	8 - 10	11 - 13	13 - 15	16 - 18	20 - 22	
	Pressure Loss (Pa)	8	12	19	27	37	48	
	NR Level		25	30	37	42	50	
600	Airflow Rate (l/s)	446	592	743	888	1034	1184	
	Throw (m) Min-Max	6 - 9	11 - 13	15 - 18	19 - 21	21 - 23	24 - 27	
	Pressure Loss (Pa)	9	13	21	27	43	48	
	NR Level		25	32	39	45	54	

Jet Mode								
SIZE (mm)	SELECTION PARAMETER	Neck Air Velocity (m/s)						
		1.5	2.0	2.5	3.0	3.5	4.0	5.0
200	Airflow Rate (l/s)	50	63	85	99	118		
	Throw (m) Min-Max	3 - 5	5 - 7	7 - 8	9 - 11	12 - 14		
	Pressure Loss (Pa)	19	27	48	68	85		
	NR Level		26	35	41	47		
250	Airflow Rate (l/s)	80	103	132	155	183		
	Throw (m) Min-Max	4 - 6	7 - 9	10 - 12	13 - 15	16 - 17		
	Pressure Loss (Pa)	19	31	50	60	70		
	NR Level		29	37	39	45		
300	Airflow Rate (l/s)	101	135	169	203	232		
	Throw (m) Min-Max	5 - 7	8 - 11	11 - 13	14 - 16	17 - 20		
	Pressure Loss (Pa)	12	22	31	40	62		
	NR Level		24	28	33	40		
350	Airflow Rate (l/s)	124	165	207	249	284		
	Throw (m) Min-Max	6 - 8	9 - 12	13 - 15	17 - 20	21 - 23		
	Pressure Loss (Pa)	11	23	35	46	70		
	NR Level		26	32	36	40		
400	Airflow Rate (l/s)	197	263	329	394	460		
	Throw (m) Min-Max	8 - 11	12 - 15	16 - 19	20 - 23	25 - 27		
	Pressure Loss (Pa)	13	23	39	53	75		
	NR Level		27	34	38	46		
500	Airflow Rate (l/s)	310	413	517	616	719		
	Throw (m) Min-Max	13 - 15	16 - 19	21 - 25	26 - 29	30 - 34		
	Pressure Loss (Pa)	13	23	37	50	70		
	NR Level		28	34	38	50		
600	Airflow Rate (l/s)	446	592	743	888	1034		
	Throw (m) Min-Max	14 - 17	19 - 22	23 - 26	28 - 31	33 - 38		
	Pressure Loss (Pa)	13	30	40	55	75		
	NR Level		32	38	44	53		

Linear Bar Grilles

MODEL BG



The Polyaire range of Linear Bar Grilles are normally used where an architectural blend of the grille to its surroundings are required.

Polyaire Model BG Linear Bar Grilles are extremely versatile and can be mounted in the wall, sill, floor or ceiling.

Manufactured from extruded aluminium the Linear Bar Grilles may be used for either supply, return, relief or exhaust systems and typically are suitable for installation in Shops, Showrooms, Hotels, Conference Rooms, Commercial Offices, Reception Areas, Sports Halls, Leisure Centres and all Residential Applications.

The Polyaire Linear Bar Grilles are available with multiple blade profiles that include a slimline blade as well as a heavy duty blade. In addition these blade profiles are available with deflection angles of 0°, 15° and 30° providing a solution for every application. Providing further flexibility is the availability of 5 different flange styles ranging from flangeless to 25mm flange.

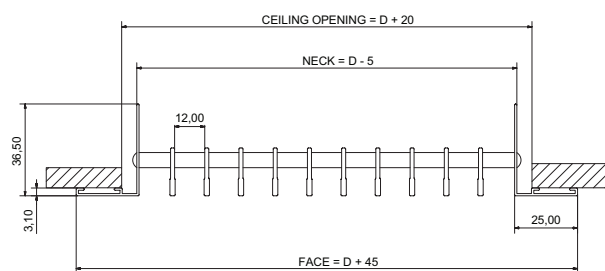
Construction is of a fixed core, while a removable or hinged core option is also available.

Standard finish is powder coat white while other finishes including anodising are available to suit the interior and architectural design requirements.

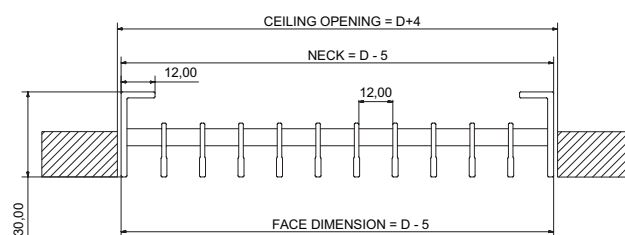
Polyaire Linear Bar Grilles are manufactured to order in various sizes and lengths including continuous applications with mitred corners.

Linear Bar Grille Model BG - Available Types & Models

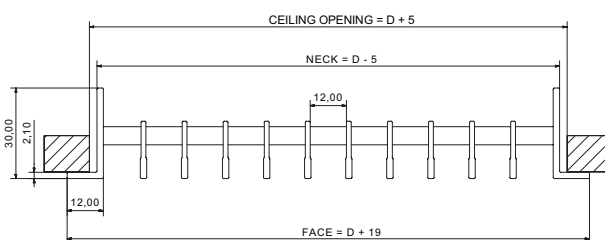
Description	
Model	Description
BG-A-0	Linear Bar Grille Type A-0 (Light Blade, 12.5mm Spacing, 0° Deflection)
BG-A-0-RC	Linear Bar Grille Type A-0 Removable Core (Light Blade, 12.5mm Spacing, 0° Deflection)
BG-A-0-HF	Linear Bar Grille Type A-0 Hinged with Filter (Light Blade, 12.5mm Spacing, 0° Deflection)
BG-A-0-VB	Linear Bar Grille Type A-0 (Light Blade, 12.5mm Spacing, 0° Deflection) with Rear Vertical Adjustable Blades
BG-A-15	Linear Bar Grille Type A-15 (Light Blade, 12.5mm Spacing, 15° Deflection)
BG-A-15-RC	Linear Bar Grille Type A-15 Removable Core (Light Blade, 12.5mm Spacing, 15° Deflection)
BG-A-15-HF	Linear Bar Grille Type A-15 Hinged with Filter (Light Blade, 12.5mm Spacing, 15° Deflection)
BG-A-15-VB	Linear Bar Grille Type A-15 (Light Blade, 12.5mm Spacing, 15° Deflection) with Rear Vertical Adjustable Blades
BG-A-30	Linear Bar Grille Type A-30 (Light Blade, 12.5mm Spacing, 30° Deflection)
BG-A-30-RC	Linear Bar Grille Type A-30 Removable Core (Light Blade, 12.5mm Spacing, 30° Deflection)
BG-A-30-HF	Linear Bar Grille Type A-30 Hinged with Filter (Light Blade, 12.5mm Spacing, 30° Deflection)
BG-A-30-VB	Linear Bar Grille Type A-30 (Light Blade, 12.5mm Spacing, 30° Deflection) with Rear Vertical Adjustable Blades
BG-B-0	Linear Bar Grille Type B-0 (Heavy Duty Blade, 12.5mm Spacing, 0° Deflection)
BG-B-0-RC	Linear Bar Grille Type B-0 Removable Core (Heavy Duty Blade, 12.5mm Spacing, 0° Deflection)
BG-B-15	Linear Bar Grille Type B-15 (Heavy Duty Blade, 12.5mm Spacing, 15° Deflection)
BG-B-15-RC	Linear Bar Grille Type B-15 Removable Core (Heavy Duty Blade, 12.5mm Spacing, 15° Deflection)
BG-C-0	Linear Bar Grille Type C-0 (Light Blade, 20mm Spacing, 0° Deflection)
BG-C-0-RC	Linear Bar Grille Type C-0 Removable Core (Light Blade, 20mm Spacing, 0° Deflection)
BG-C-15	Linear Bar Grille Type C-15 (Light Blade, 20mm Spacing, 15° Deflection)
BG-C-15-RC	Linear Bar Grille Type C-15 Removable Core (Light Blade, 20mm Spacing, 15° Deflection)
BG-C-30	Linear Bar Grille Type C-30 (Light Blade, 20mm Spacing, 30° Deflection)
BG-C-30-RC	Linear Bar Grille Type C-30 Removable Core (Light Blade, 20mm Spacing, 30° Deflection)
BG-D-0	Linear Bar Grille Type D-0 (Heavy Duty Blade, 20mm Spacing, 0° Deflection)
BG-D-0-RC	Linear Bar Grille Type D-0 Removable Core (Heavy Duty Blade, 20mm Spacing, 0° Deflection)
BG-D-15	Linear Bar Grille Type D-15 (Heavy Duty Blade, 20mm Spacing, 15° Deflection)
BG-D-15-RC	Linear Bar Grille Type D-15 Removable Core (Heavy Duty Blade, 20mm Spacing, 15° Deflection)
BG-B-0-HDFG	Linear Bar Grille Type B-0 Heavy Duty / Computer Floor Grille (Heavy Duty Blade, 12.5mm Spacing, 0° Deflection)
BG-B-15-HDFG	Linear Bar Grille Type B-15 Heavy Duty / Computer Floor Grille (Heavy Duty Blade, 12.5mm Spacing, 15° Deflection)



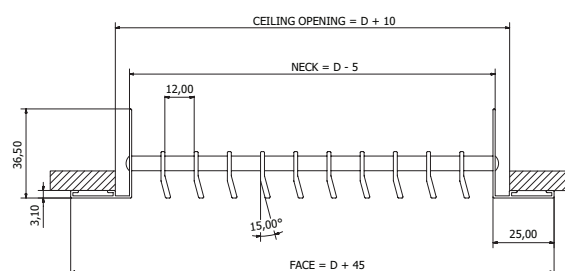
BG-A-0



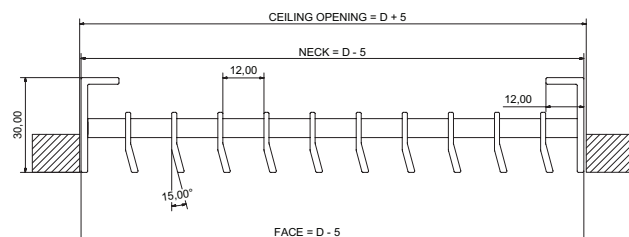
BG-A-0 Flangeless



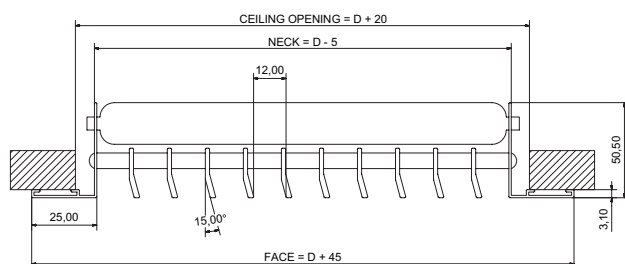
BG-A-0 12mm Flange



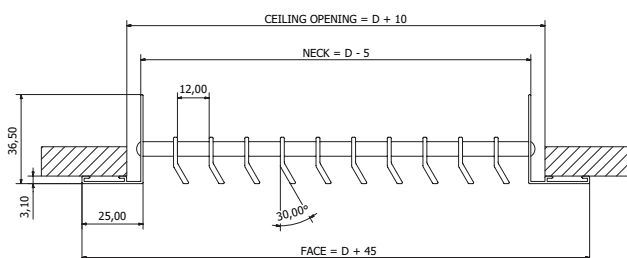
BG-A-15



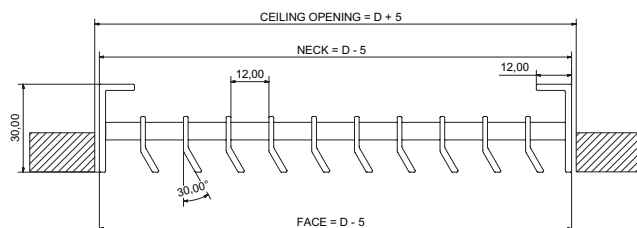
BG-A-15 Flangeless



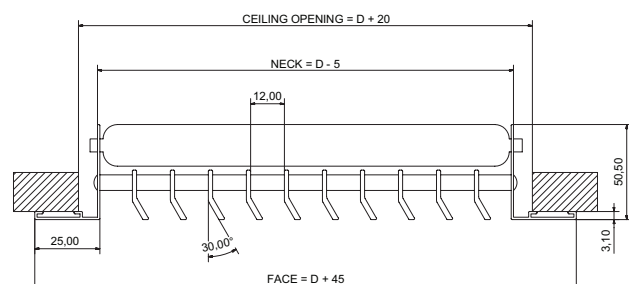
BG-A-15-VB



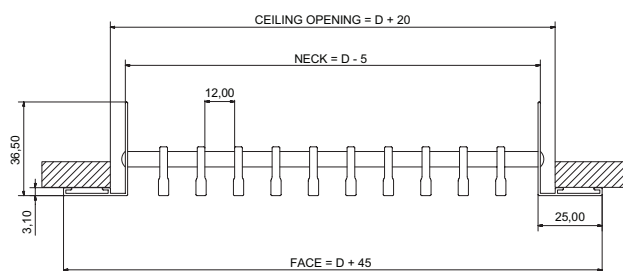
BG-A-30



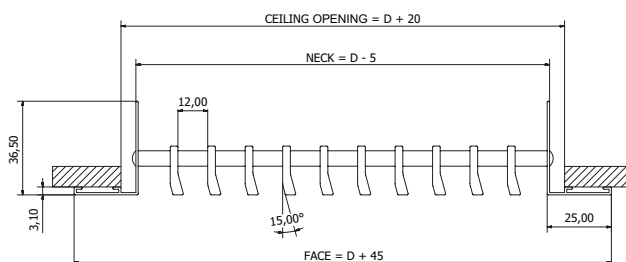
BG-A-30 Flangeless



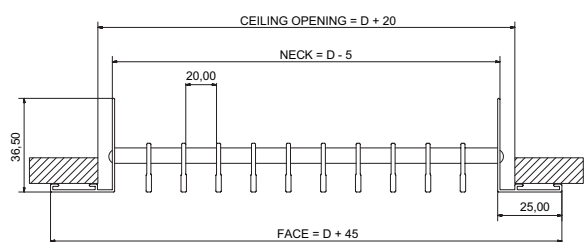
BG-A-30-VB



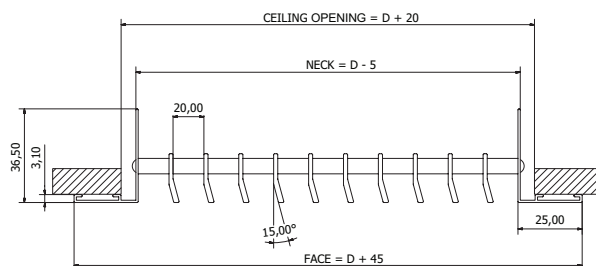
BG-B-0



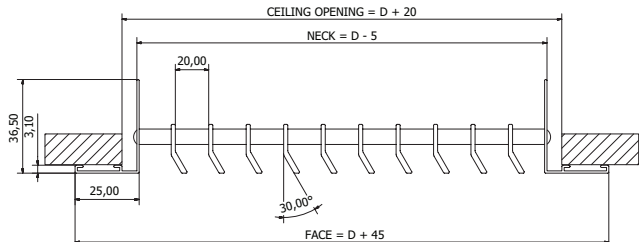
BG-B-15



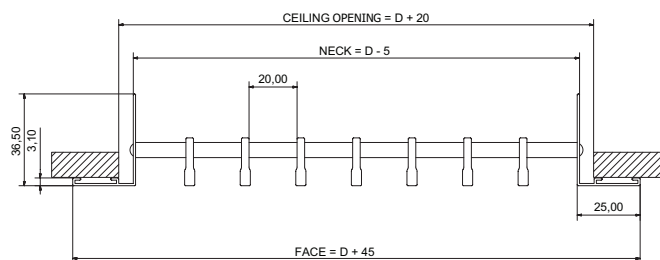
BG-C-0



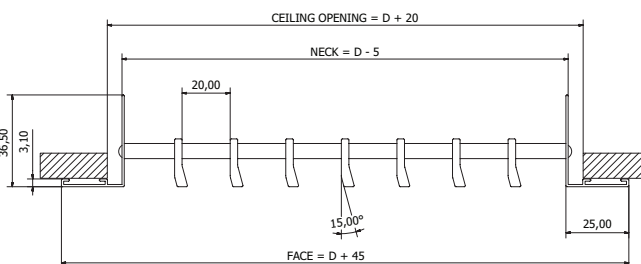
BG-C-15



BG-C-30



BG-D-0



BG-D-15



The Polyaire Linear Slot Diffusers are an attractive alternative to the ceiling or high sidewall supply diffusers. Slot diffusers can be installed individually in set lengths or in a continuous line. They can also be installed in any type of ceiling application.

The modules are available with a 20mm or 25mm Slot with the number of slots ranging from 1 to 8 slots and are further available as fixed or removable core. (Fixed Core - Model LSD-FC, Removable Core - LSD-RC).

The air pattern control is adjustable from the diffuser face and is achieved by means of an adjustable pattern control with each slot, enabling a full 180° air pattern adjustment. The suggested volume control should be from the main duct run take-off, or from a butterfly damper fitted to the inlet of the cushion head box.

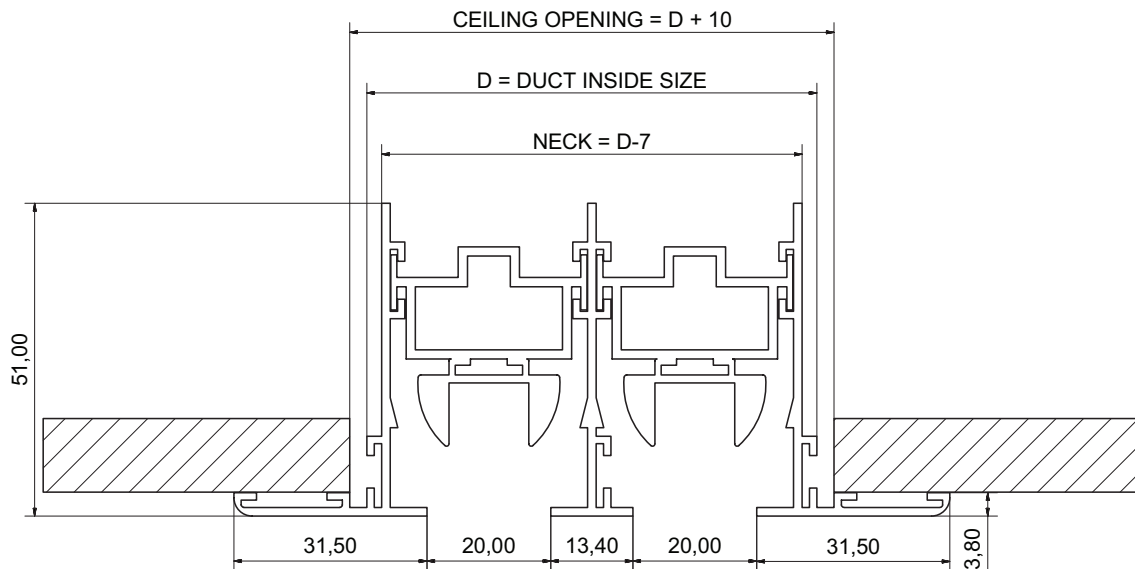
Construction is from extruded aluminium and the recommended maximum length for each section is 3 metres. Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements.

Fixed Core Linear Model LSD

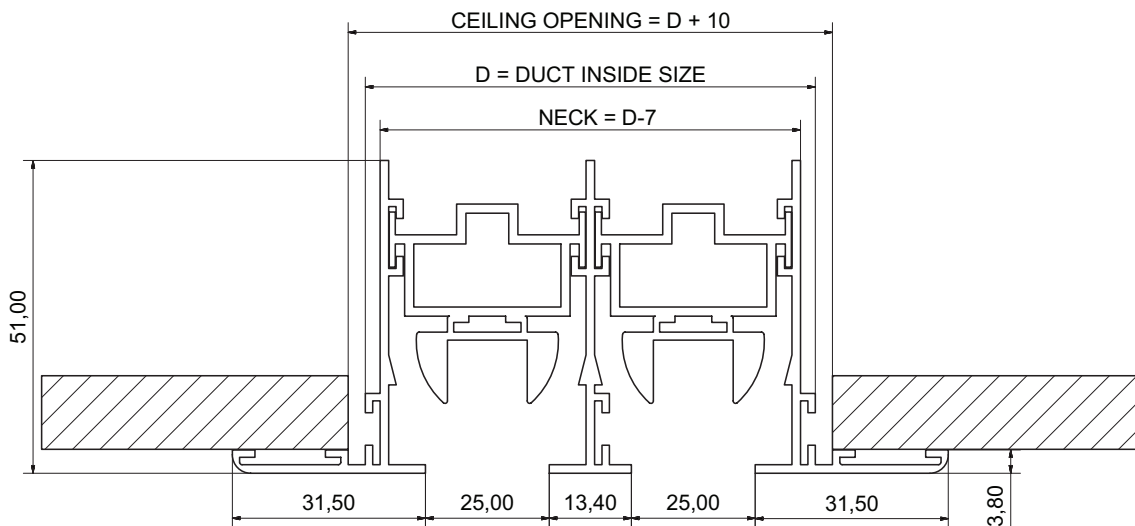
Sizes Available/Dimensions						
No of slots	20mm slot			25mm slot		
	Neck size	Face size	Box size	Neck size	Face size	Box size
1	34	81	45mm	39	86	50mm
2	67	114	79mm	77	124	89mm
3	100	147	111mm	115	162	127mm
4	133	180	145mm	153	200	165mm
5	167	214	176mm	192	239	205mm
6	200	247	212mm	230	277	241mm
7	233	280	245mm	268	315	280mm
8	267	314	279mm	308	355	318mm

Removable Core Linear Model LSD-RC

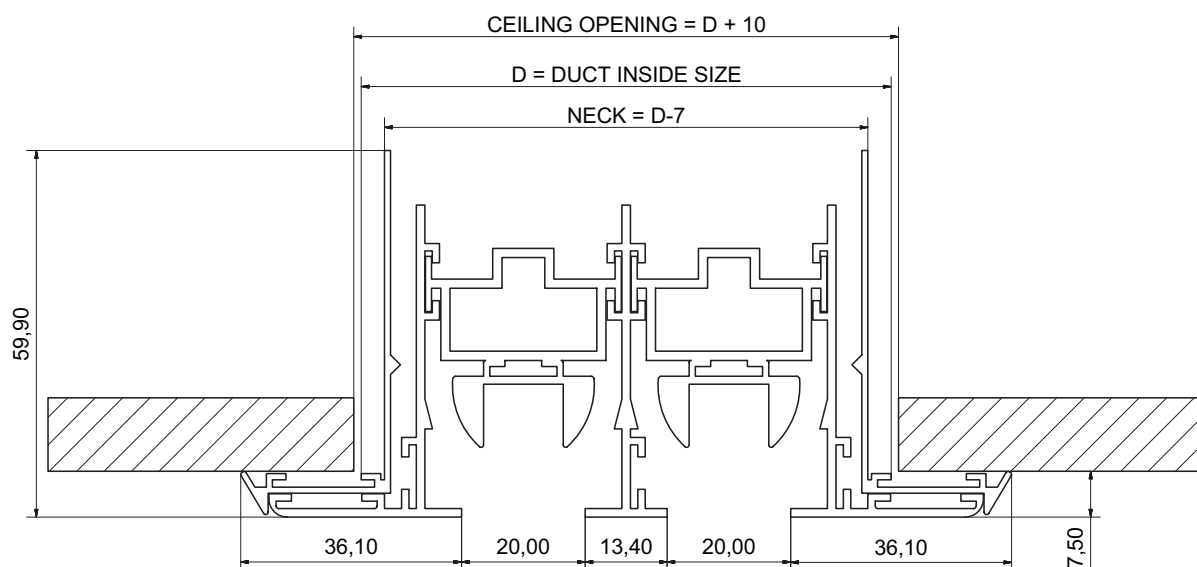
Sizes Available/Dimensions						
No of slots	20mm slot			25mm slot		
	Neck size	Face size	Box size	Neck size	Face size	Box size
1	45	85	55mm	50	90	60mm
2	78	118	89mm	88	128	99mm
3	111	151	123mm	126	166	137mm
4	144	184	150mm	164	204	175mm
5	178	218	189mm	203	243	214mm
6	211	251	222mm	241	281	252mm
7	244	284	255mm	279	319	290mm
8	278	318	289mm	319	359	329mm



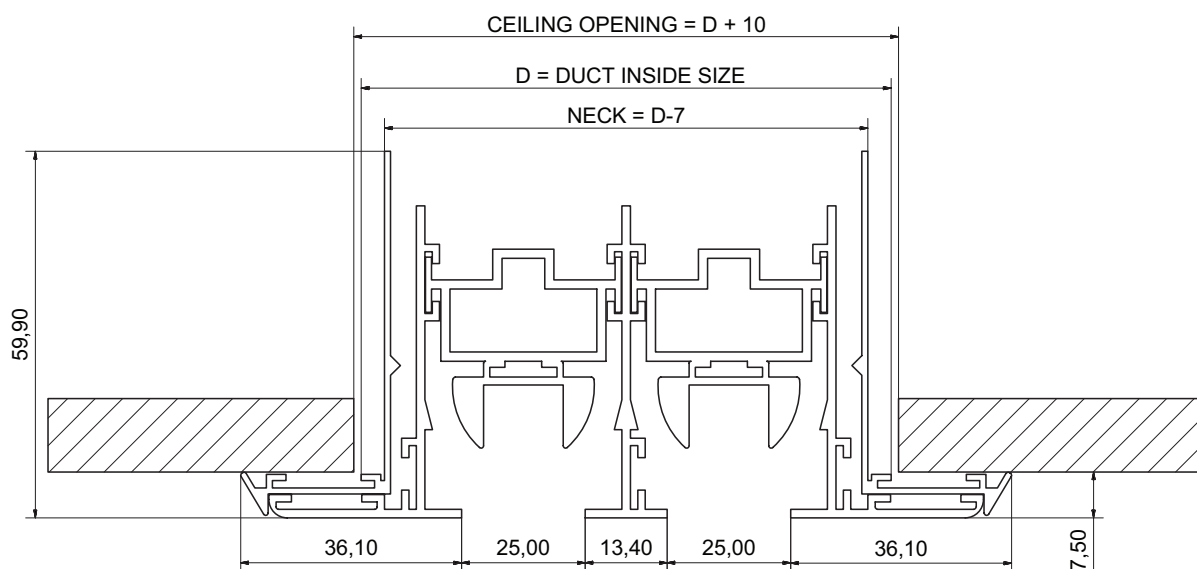
LSD 20mm



LSD 25mm



LSD-RC-20



LSD-RC-25

Slot Type Diffusers

Type LSD - Selection Data

		Two Way Blow			
L/s per metre		2 slots wide	4 slots wide	6 slots wide	8 slots wide
31	Blow in m.	1.83	-	-	-
	Pressure drop (Pa)	2.5	-	-	-
	Suitable N/C level	less than 25	-	-	-
47	Blow in m.	2.74	-	-	-
	Pressure drop (Pa)	5	-	-	-
	Suitable N/C level	less than 25	-	-	-
62	Blow in m.	3.35	2.13	-	-
	Pressure drop (Pa)	10	2	-	-
	Suitable N/C level	25	less than 25	-	-
78	Blow in m.	3.96	2.74	-	-
	Pressure drop (Pa)	20	2.5	-	-
	Suitable N/C level	30	less than 25	-	-
93	Blow in m.	4.88	3.05	2.13	-
	Pressure drop (Pa)	2	5	2.5	-
	Suitable N/C level	32	less than 25	less than 25	-
108	Blow in m.	5.8	3.66	2.44	-
	Pressure drop (Pa)	32.4	7.5	2.5	-
	Suitable N/C level	35	less than 25	less than 25	-
124	Blow in m.	6.7	3.96	2.74	2.44
	Pressure drop (Pa)	40	10	5	2.5
	Suitable N/C level	38	less than 25	less than 25	less than 25
139	Blow in m.	-	4.57	3.05	2.44
	Pressure drop (Pa)	-	12.5	5	2.5
	Suitable N/C level	-	less than 25	less than 25	less than 25
155	Blow in m.	-	4.88	3.66	2.74
	Pressure drop (Pa)	-	17.4	7.5	2.5
	Suitable N/C level	-	25	less than 25	less than 25
170	Blow in m.	-	5.5	3.96	3.05
	Pressure drop (Pa)	-	27.4	7.5	5
	Suitable N/C level	-	30	25	less than 25
186	Blow in m.	-	6.1	4.26	3.35
	Pressure drop (Pa)	-	34.9	10	5
	Suitable N/C level	-	30	25	25
217	Blow in m.	-	-	4.88	3.96
	Pressure drop (Pa)	-	-	12.5	7.5
	Suitable N/C level	-	-	30	25
248	Blow in m.	-	-	5.5	4.57
	Pressure drop (Pa)	-	-	17.4	10
	Suitable N/C level	-	-	30	28
279	Blow in m.	-	-	6.7	5.5
	Pressure drop (Pa)	-	-	22.4	12.5
	Suitable N/C level	-	-	32	30
310	Blow in m.	-	-	7.62	6.1
	Pressure drop (Pa)	-	-	25	14.9
	Suitable N/C level	-	-	35	32

Slot Type Diffusers Type LSD - Selection Data

		One Way Blow			
L/s per metre		1 slots wide	2 slots wide	3 slots wide	4 slots wide
16	Blow in m.	1.83	-	-	-
	Pressure drop (Pa)	2.5	-	-	-
	Suitable N/C level	less than 25	-	-	-
31	Blow in m.	3.4	2.1	-	-
	Pressure drop (Pa)	10	10	-	-
	Suitable N/C level	less than 25	less than 25	-	-
47	Blow in m.	4.9	3.0	2.1	-
	Pressure drop (Pa)	25	7.5	2.5	-
	Suitable N/C level	25	less than 25	less than 25	-
62	Blow in m.	6.7	4.0	2.7	2.4
	Pressure drop (Pa)	40	10	5	2.5
	Suitable N/C level	30	less than 25	less than 25	less than 25
78	Blow in m.	-	5.2	3.7	2.7
	Pressure drop (Pa)	-	15	7.5	2.5
	Suitable N/C level	-	less than 25	less than 25	less than 25
93	Blow in m.	-	6.1	4.3	3.4
	Pressure drop (Pa)	-	22	10	5
	Suitable N/C level	-	25	less than 25	less than 25
108	Blow in m.	-	7.3	4.9	4.0
	Pressure drop (Pa)	-	30	12.5	7.5
	Suitable N/C level	-	30	less than 25	less than 25
124	Blow in m.	-	-	5.5	4.6
	Pressure drop (Pa)	-	-	17.5	10
	Suitable N/C level	-	-	25	less than 25
139	Blow in m.	-	-	6.7	5.5
	Pressure drop (Pa)	-	-	22	12.5
	Suitable N/C level	-	-	30	less than 25
155	Blow in m.	-	-	7.6	6.1
	Pressure drop (Pa)	-	-	25	15
	Suitable N/C level	-	-	32	30

Linear Slot Diffusers

MODEL LSD-L



The Polyaire Linear Slot Diffusers Model LSD-L are an attractive alternative to the ceiling or high sidewall supply diffuser that has been designed for efficient air distribution. Model LSD-L Slot diffusers can be installed individually in set lengths or in a continuous line. Continuous runs can consist of a combination of active and inactive sections as well as combining supply and return air applications.

The modules are available with a 20mm or 25mm Slot with the number of slots ranging from 1 to 8 slots and are available as fixed core. They can also be installed in any type of ceiling application.

The air pattern control is adjustable from the diffuser face and is achieved by means of an adjustable pattern control with each slot, enabling a full 180° air pattern adjustment that provides draft free comfort for both heating and cooling applications.

The suggested volume control should be from the main duct run take-off, or from a butterfly damper fitted to the inlet of the cushion head box.

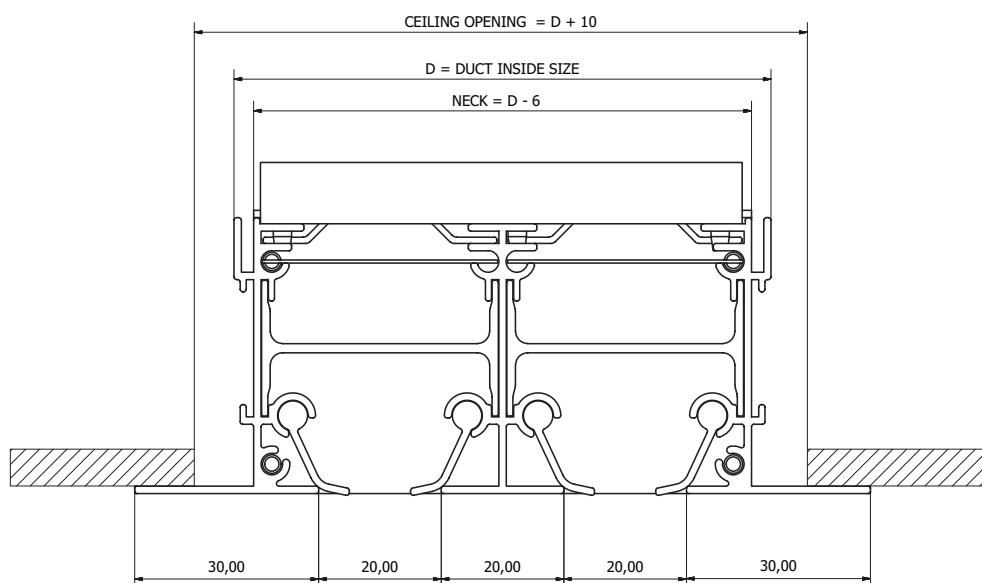
Construction is from extruded aluminium and the recommended maximum length for each individual section is 3 metres.

Standard finish is powder coat white while other finishes are available to suit the interior and architectural design requirements

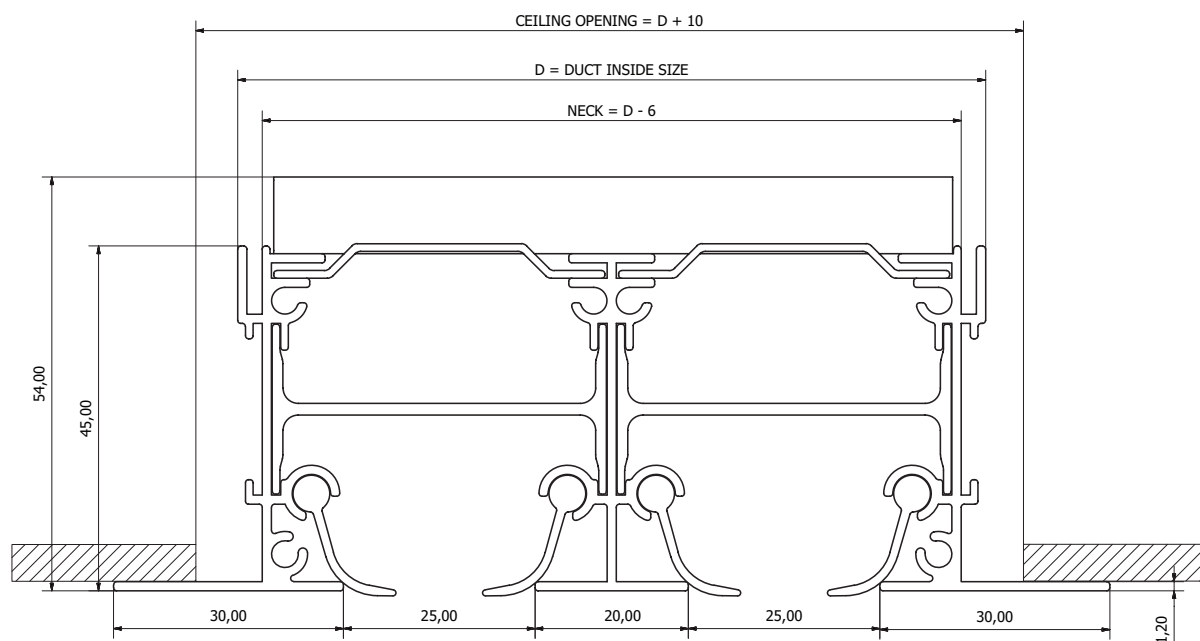
Fixed Core Linear Model LSD-L

Sizes Available/Dimensions

No of slots	20mm slot			25mm slot		
	Neck size	Face size	Box size	Neck size	Face size	Box size
1	41.2	80	43.5	46.2	85	48.5
2	81.2	120	83.5	91.2	130	93.5
3	121.2	160	123.5	136.2	175	138.5
4	161.2	200	163.5	181.2	220	183.5
5	201.2	240	203.5	226.2	265	228.5
6	241.2	280	243.5	271.2	310	273.5
7	281.2	320	283.5	316.2	355	318.5
8	321.2	360	323.5	361.2	400	363.5



LSD-L-20



LSD-L-25

Linear Slot Diffuser Selection - Horizontal Projection with Ceiling Effect

LSD-L-20

NO SLOTS	Total pressure (Pa)	<10	20	40	60	80
1	L/s per metre	26	38	52	70	84
	Horizontal throw (m) (0.25m/s terminal velocity)	1.2	2.8	4.2	6	7.1
	NR Sound Power Level (dB)	15	25	31	38	42
2	L/s per metre	50	78	108	140	165
	Horizontal throw (m) (0.25m/s terminal velocity)	2.6	4.9	6.8	9	10.5
	NR Sound Power Level (dB)	17	28	35	41	46
3	L/s per metre	78	118	160	209	260
	Horizontal throw (m) (0.25m/s terminal velocity)	3.6	6.4	8.8	11.1	13.2
	NR Sound Power Level (dB)	19	30	37	43	49
4	L/s per metre	100	160	222	300	350
	Horizontal throw (m) (0.25m/s terminal velocity)	4.6	7.5	10.2	13.4	15.2
	NR Sound Power Level (dB)	20	32	38	45	52
5	L/s per metre	130	195	274	350	412
	Horizontal throw (m) (0.25m/s terminal velocity)	5.3	8.6	11.3	14.1	16.8
	NR Sound Power Level (dB)	22	33	39	46	55
6	L/s per metre	151	240	325	416	510
	Horizontal throw (m) (0.25m/s terminal velocity)	6.1	9.5	12.8	16	18.1
	NR Sound Power Level (dB)	24	33	40	49	58
7	L/s per metre	180	278	381	496	595
	Horizontal throw (m) (0.25m/s terminal velocity)	6.8	10.2	13.6	17	19.4
	NR Sound Power Level (dB)	25	34	42	50	60
8	L/s per metre	206	328	432	576	668
	Horizontal throw (m) (0.25m/s terminal velocity)	7.4	11	14.2	18	20.2
	NR Sound Power Level (dB)	26	36	42	51	60

ACTIVE LENGTH CORRECTION TABLE		
Diffuser Active Length (m)	Throw multiplier	Sound level correction
0.4	0.6	-4 dB
0.5	0.7	-3 dB
1	1	0
1.5	1.15	-2 dB
2	1.25	-3 dB
3.0+	1.3	-5 dB

*The active length correction table can be used to determine the throw at different active lengths.

Linear Slot Diffuser Selection - Horizontal Projection with Ceiling Effect

LSD-L-25

NO SLOTS	Total pressure (Pa)	<10	20	40	60	80
1	L/s per metre	28	43	60	80	93
	Horizontal throw (m) (0.25m/s terminal velocity)	1.2	3	4.9	6.8	7.9
	NR Sound Power Level (dB)	15	25	32	38	42
2	L/s per metre	59	88	120	155	190
	Horizontal throw (m) (0.25m/s terminal velocity)	3	5.2	7.5	9.8	11.1
	NR Sound Power Level (dB)	18	29	36	42	46
3	L/s per metre	88	134	185	248	300
	Horizontal throw (m) (0.25m/s terminal velocity)	4.2	6.9	9.5	12	14
	NR Sound Power Level (dB)	20	31	37	44	50
4	L/s per metre	120	180	258	318	394
	Horizontal throw (m) (0.25m/s terminal velocity)	5.2	8	11	14	16
	NR Sound Power Level (dB)	22	33	38	46	52
5	L/s per metre	145	221	312	398	487
	Horizontal throw (m) (0.25m/s terminal velocity)	6	9.2	12.2	15.6	18
	NR Sound Power Level (dB)	24	34	40	47	58
6	L/s per metre	170	266	358	472	562
	Horizontal throw (m) (0.25m/s terminal velocity)	6.8	10	13.4	16.3	19
	NR Sound Power Level (dB)	25	34	41	49	59
7	L/s per metre	208	312	418	550	662
	Horizontal throw (m) (0.25m/s terminal velocity)	7.3	11	14.1	18	20.2
	NR Sound Power Level (dB)	26	35	42	50	60
8	L/s per metre	242	378	500	632	764
	Horizontal throw (m) (0.25m/s terminal velocity)	8	12	15.9	19.8	22
	NR Sound Power Level (dB)	26	36	43	52	62

ACTIVE LENGTH CORRECTION TABLE		
Diffuser Active Length (m)	Throw multiplier	Sound level correction
0.4	0.6	-4 dB
0.5	0.7	-3 dB
1	1	0
1.5	1.15	-2 dB
2	1.25	-3 dB
3.0+	1.3	-5 dB

*The active length correction table can be used to determine the throw at different active lengths.

Linear Slot Diffuser Selection - Vertical / Sidewall projection (No Wall or Ceiling Effect)

LSD-L-25

NO SLOTS	Total pressure (Pa)	<10	20	40	60	80
1	L/s per metre	28	43	58	78	92
	Throw (m) (0.50m/s terminal velocity)	0.9	2	3.2	4.5	5.4
	NR Sound Power Level (dB)	15	25	32	37	41
2	L/s per metre	58	85	130	158	190
	Throw (m) (0.50m/s terminal velocity)	2	3.5	5.1	6.8	7.9
	NR Sound Power Level (dB)	11	28	36	41	45
3	L/s per metre	86	168	182	245	295
	Throw (m) (0.50m/s terminal velocity)	2.9	4.7	6.4	8.1	9.5
	NR Sound Power Level (dB)	12	30	36	44	50
4	L/s per metre	138	180	240	312	390
	Throw (m) (0.50m/s terminal velocity)	3.5	5.6	7.5	9.2	11
	NR Sound Power Level (dB)	12	32	38	45	51
5	L/s per metre	144	220	300	395	480
	Throw (m) (0.50m/s terminal velocity)	4	6.1	8.2	10.1	12
	NR Sound Power Level (dB)	18	33	39	46	55
6	L/s per metre	170	265	345	450	550
	Throw (m) (0.50m/s terminal velocity)	4.4	6.9	9	11	12.5
	NR Sound Power Level (dB)	24	34	40	47	58
7	L/s per metre	200	300	400	530	620
	Throw (m) (0.50m/s terminal velocity)	5	7.2	9.6	12	15
	NR Sound Power Level (dB)	25	35	40	49	60
8	L/s per metre	240	360	485	610	780
	Throw (m) (0.50m/s terminal velocity)	5.4	8	10	13	15
	NR Sound Power Level (dB)	25	35	41	50	60

ACTIVE LENGTH CORRECTION TABLE		
Diffuser Active Length (m)	Throw multiplier	Sound level correction
0.4	0.6	-4 dB
0.5	0.7	-3 dB
1	1	0
1.5	1.15	-2 dB
2	1.25	-3 dB
3.0+	1.3	-5 dB

*The active length correction table can be used to determine the throw at different active lengths.



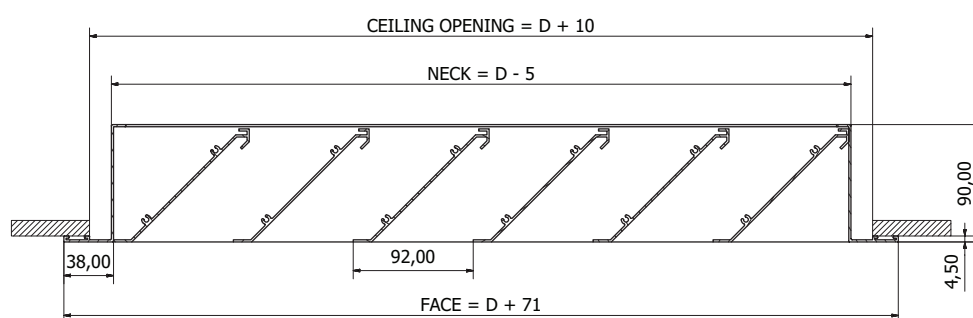
The Polyaire Large Section Outside Air Louvre model OAL-L is normally used for large sizes and large air quantities.

Construction is from all extruded aluminium with a standard flange of 32mm.

A Bird screen of 12mm x 12mm square mesh is fitted to the rear as an option.

Standard finish is natural anodised while other finishes including powder coat are available to suit the interior and architectural design requirements.

Model OAL-L Outside Air Louvres are manufactured to order in a wide range of sizes.



MODEL OAL-L

Selection Data - OAL-L

Nominal Height (mm)	203	305	380	460	535	610	685	760	840	915	1070	1525
Free Area %	40.0	46.8	50.0	52.0	53.4	55.0	55.7	56.0	57.0	57.0	58.0	62.5

Selection Data for OAL (S & L) Outside Air Louvres

Jet Velocity m/s													
Nominal Face	1.0	2.50	2.17	2.03	1.96	1.91	1.85	1.83	1.81	1.79	1.78	1.76	1.64
	1.5	3.76	3.25	3.05	2.98	2.86	2.77	2.74	2.73	2.69	2.68	2.64	2.44
Velocity m/s	2.0	5.03	4.34	4.06	3.91	3.81	3.71	3.66	3.63	3.58	3.56	3.51	3.25
	2.5	6.30	5.44	5.08	4.88	4.78	4.62	4.57	4.55	4.47	4.45	4.39	4.06
	3.0	7.62	6.50	6.10	5.88	6.22	6.05	5.49	5.45	5.39	5.36	5.28	4.88
	3.5	-	-	7.11	6.81	6.66	6.46	6.40	5.85	6.30	6.25	6.15	5.69
	4.0	-	-	-	-	-	-	7.32	7.26	7.21	7.16	7.01	6.50

Outside Air Louvre

MODEL OAL-S



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

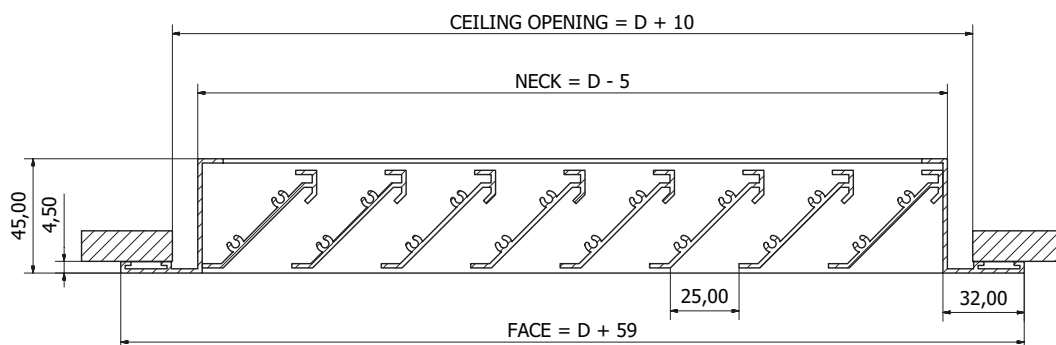
Polyaire manufacture both a small section and a large section outside air louvre as detailed below.

The Polyaire Small Section Outside Air louvre model OAL-S is normally used for small sizes and small air quantities.

Construction is from all extruded aluminium with a standard flange of 32mm. A Bird screen of 12mm x 12mm square mesh is fitted to the rear as an option.

Standard finish is natural anodised while other finishes including powder coat are available to suit the interior and architectural design requirements.

Model OAL-S Outside Air Louvres are available in stock sizes and can also be manufactured to order in a wide range of sizes.



MODEL OAL-S

Selection Data - OAL-S

Nominal Height (mm)	140	170	200	240	270	300	330	400
Free Area %	38.6	42.4	45.0	45.0	46.7	48.0	49.1	49.5

Outside Air Louvre - Round

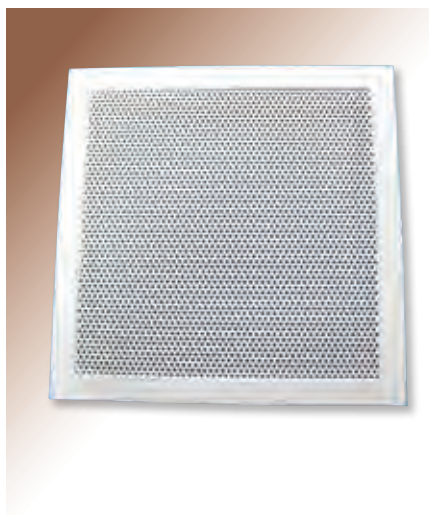


Outside Air Louvre - Round

Description	
Model	Description
244010	OUTSIDE AIR LOUVRE GRILLE ROUND 150 X 150
244011	OUTSIDE AIR LOUVRE GRILLE ROUND 200 X 200

Perforated Diffusers

MODEL PD



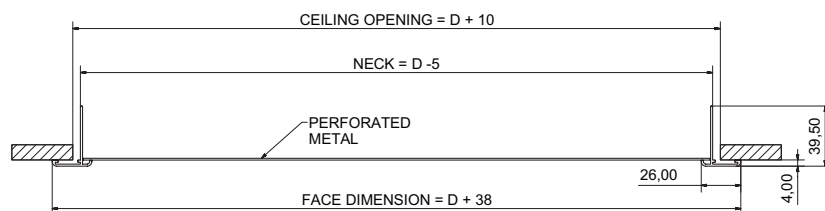
The Polyaire PD Perforated Diffuser are available with a square or rectangular face supplied through a round or square neck.

Standard construction is of a fixed core, while a removable or hinged core option is available.

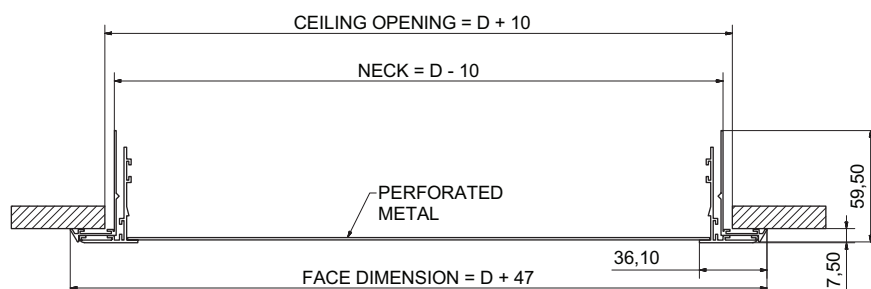
Perforated Diffusers can also be manufactured in a heavy robust form for Security Grille applications.

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

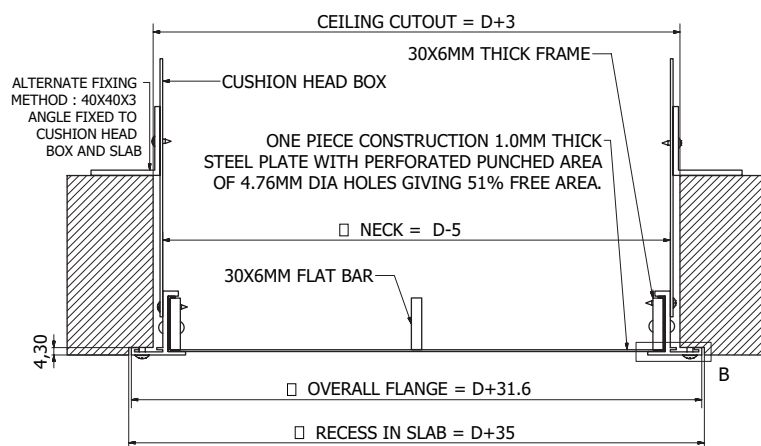
Perforated Diffusers are manufactured to order, standard free area is 51%



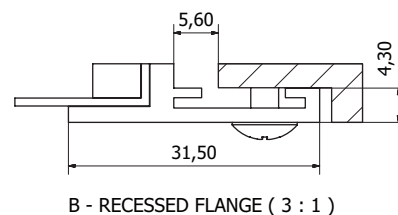
MODEL PD



MODEL PD-RC
(Removable Core)



MODEL PD-HDSG
(Heavy Duty Security Grille)



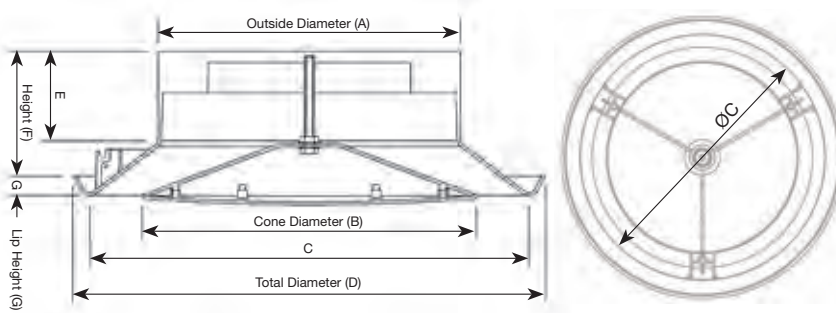
Round Diffusers

MODEL PCD



The Polyaire Round Ceiling Diffuser is manufactured from high impact engineering grade plastic for long term strength and rigidity. It is fully adjustable by rotating the centre cone from total shutoff to fully open.

The standard colour is off-white, the outer surface is lightly etched to reduce reflection and fit unobtrusively with most decors. Available in 3 sizes, it allows for smooth quiet airflow that flows out in a concentric pattern across the ceiling, to provide good coverage in both cooling and most heating applications.



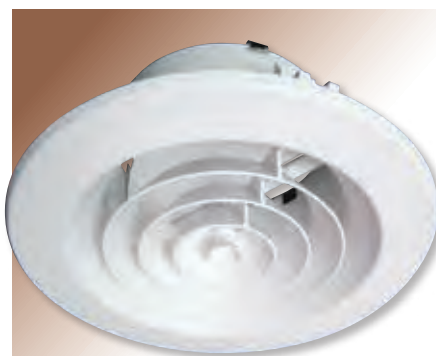
Model PCD

Sizes Available/Dimensions

Item #	Description	A	B	C	D	E	F	G
235384	150mm diam Round Ceiling Diffuser	147.5	170	225	250	55	70	16.6
237100	200mm diam Round Ceiling Diffuser	198	225	293	325	76	95	19.5
237101	250mm diam Round Ceiling Diffuser	250	280	365	385	76.5	101	19.6
237102	300mm diam Round Ceiling Diffuser	298	327	415	443	71	100	19.6

Round Jet Diffusers

MODEL PJD



The Polyaire Roundjet is designed to jet the airflow right down to the floor which aids in mixing and circulating the air.

It is particularly efficient for rooms with higher ceilings and stairwells where a stronger more direct flow is required to get to the floor level and mix properly.

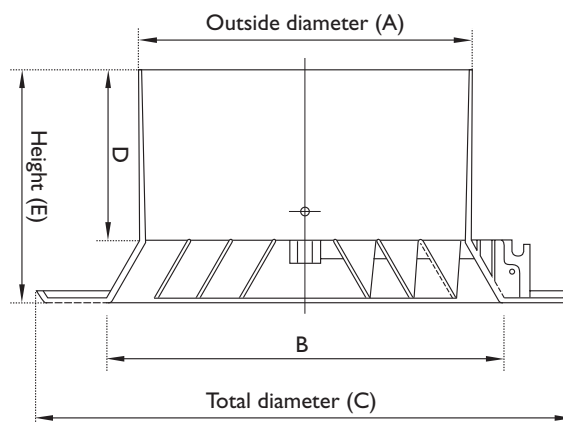
Features

- Flush mounting
- Easy clean non reflective white surface
- 2 sizes, 150mm & 200mm
- Fully adjustable flow from complete shut off to fully open
- Constructed from engineering grade plastic for long term strength and stability

Model PJD

Sizes Available/Dimensions

Item #	A	B	C	D	E
235446	146	170	240	75	100
235447	195	225	290	95	120



Round Heritage Outlets



The Circular Heritage Outlet is a more decorative design that employs a unique three stage regulation from closed through partially open to full open so that airflow needs can be tailored for a wide variety of applications.

Round Heritage Outlet - Plastic

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
231085	Ø 150	Ø 6"	Ø 240	Ø 9"
231086	Ø 200	Ø 8"	Ø 285	Ø 11"
231087	Ø 250	Ø 10"	Ø 340	Ø 13"
231088	Ø 300	Ø 12"	Ø 390	Ø 15"

Round Outlet - Multi Cone Diffusers



Round Ceiling Diffuser - Aluminium - Multi Cone Style

Sizes Available/Dimensions				
Item #	Nominal Neck Size		Face Size	
	mm	inch	mm	inch
245284	Ø 150	Ø 6"	Ø 320	Ø 13"
245285	Ø 200	Ø 8"	Ø 412	Ø 16"
245286	Ø 250	Ø 10"	Ø 480	Ø 19"
245287	Ø 300	Ø 12"	Ø 550	Ø 22"
245288	Ø 350	Ø 14"	Ø 595	Ø 24"

T-Bar To Suit Eggcrate Grilles & Layin Diffusers

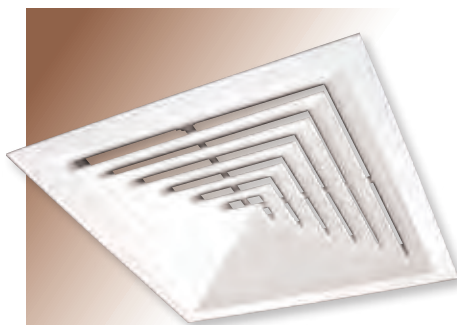


T-Bar

Description	
Model	Description
245700	TBAR METAL FRAME 602 X 602
245701	GRILLE METAL CEILING TBAR FRAME 600/300
245702	GRILLE METAL CEILING TBAR FRAME 1200/600

Square Ceiling Diffusers

MODEL LFD



LFD type base is for flush mounting under a plaster ceiling or within a T-Bar ceiling.

APPLICATION:

This square ceiling diffuser is designed to achieve an even supply air distribution from any type of ceiling.

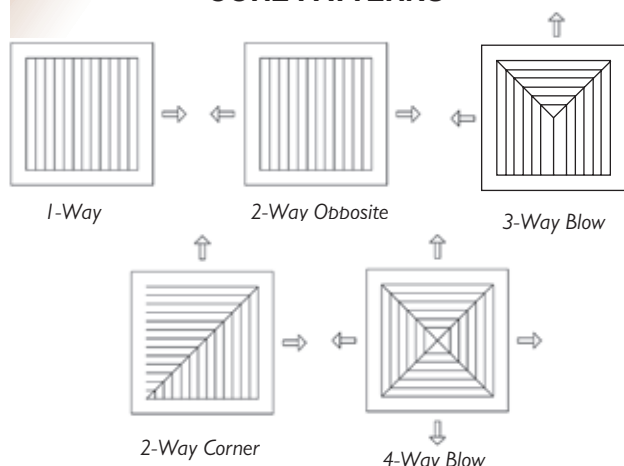
CONSTRUCTION:

Aluminium.

STANDARD FINISH:

Powder Coat White RAL9010

CORE PATTERNS:



FEATURES:

- Louvre faced ceiling diffusers are all aluminium including the frame, blades and centre core.
- LFD's are lightweight and will not rust or corrode under normal usage.
- Suitable for flush mounting under a plaster ceiling or lay-in T Bar ceiling grids.
- Removable core and safety chain makes them easy to install, clean & access dampers located behind diffusers.
- 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.

Louvre Face Diffuser - Metal

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Face Size	
		mm	inch	mm	inch
247084	4 Way	150 x 150	6" x 6"	300 x 300	12" x 12"
247085	4 Way	225 x 225	9" x 9"	375 x 375	15" x 15"
247086	4 Way	300 x 300	12" x 12"	450 x 450	18" x 18"
247087	4 Way	375 x 375	15" x 15"	525 x 525	21" x 21"
247081	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"
247044	1 Way	450 x 450	18" x 18"	595 x 595	24" x 24"
247045	2 Way Cnr	450 x 450	18" x 18"	595 x 595	24" x 24"
247046	2 Way Opp	450 x 450	18" x 18"	595 x 595	24" x 24"
247080	3 Way	450 x 450	18" x 18"	595 x 595	24" x 24"

Louvre Face Diffuser - Metal - Kits

Sizes Available/Dimensions

Item #	Description	Nominal Neck Size		Face Size		Spigot Size	
		mm	inch	mm	inch	mm	inch
248000	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	150 x 150	6" x 6"
248001	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	225 x 225	9" x 9"
248002	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	300 x 300	12" x 12"
248003	4 Way	450 x 450	18" x 18"	595 x 595	24" x 24"	375 x 375	15" x 15"

Kits includes Grilles & Neck Adaptors



NECK SIZE (mm)	Airflow (L/s)	Velocity (m/s)	STATIC PRESSURE DROP (Pa)	NR (dB)	Minimum Throw (m)	Maximum Throw (m)
225 x 225	100	2	15	<22	0.5	1.5
	150	3	35	28	1.4	3.2
300 x 300	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
375 x 375	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
450 x 450	350	1.7	12	25	1.2	3.8
	400	2	15	26	1.4	4.2
	450	2.2	20	29	2	4.8
	500	2.5	25	32	2.7	5.4
	550	2.7	30	33	3.1	5.8
	600	3.0	35	35	3.5	6.2

NOTE: The above sizes are based on a 4-way throw

3-way x Air Quantity x 0.75

2-way x Air Quantity x 0.50

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

Air volume, pressure loss and noise level

S/G: Installed inside of the ceiling with diffusing ring;

S/W: Hung with diffusing ring;

N/G: Installed inside of the ceiling without diffusing ring;

N/W: Hung without diffusing ring;

Model PSA - Quick Selection

Specs	Air volume m³/h	N/G		N/W		S/G		S/W	
		Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)	Pressure Loss (Pa)	Noise (dB)
198	100	11	20	14	21	5.3	<20	6.2	<20
	125	16.5	26	21.5	27	8	<20	9.5	21
	150	25	32	31	34	12	24	14	25
	175	31	36	40	38	16	28	19	29
	200	40	39	54	41	21	33	26	34
	225	54	43	76	45	25	35	31	36
	250	64	46	81	48	32	38	39	39
	275	77	48	96	50	38	40	46	42
	300	-	-	-	-	49	43	60	45
	350	-	-	-	-	64	47	78	49
248	100	2	<20	4	<20	-	<20	-	<20
	150	10	<20	12	20	5	<20	6.5	<20
	175	13	23	14	24	6.5	<20	8.5	<20
	200	17	27	19	28	8.5	<20	12	20
	250	27	33	30	34	13	24	17	26
	300	39	39	45	40	19	29	26	32
	350	52	43	60	44	25	33	33	36
	400	64	47	78	48	35	37	44	40
	450	88	51	100	52	41	41	55	44
	500	-	-	-	-	49	43	60	46
313	200	3	<20	6	<20	-	<20	-	<20
	250	8	<20	9	<20	-	<20	6	<20
	300	12	26	13	27	6	<20	9.5	22
	350	16	30	17	31	8	23	12.5	26
	400	21	35	22	36	11	28	16	30
	500	34	42	36	43	16	34	25	37
	600	49	48	51	49	24	40	37	43
	700	69	54	72	55	32	44	48	47
	800	-	-	-	-	41	48	62	52
398	300	8	23	6	<20	4	<20	5	<20
	400	12	30	11	24	7	<20	7	<20
	500	20	35	16	30	11	25	11	26
	700	40	45	25	39	21	35	28	34
	900	71	54	55	47	35	42	47	45
	1200	121	69	95	68	58	48	70	53

Model PSB - Quick Selection

Specs	Air volume m³/h	Pressure Loss (Pa)	Noise (dB)
254	100	6.5	<20
	150	13	24
	250	35	37
	400	90	53
	500	140	65
336	150	4.5	<20
	200	9	<20
	300	18	28
	400	36	38
	500	50	44
440	180	4.5	<20
	250	8	<20
	350	15	27
	550	38	42
	700	60	47
530	300	6	<20
	400	10	22
	600	20	32
	800	38	42
	1200	85	55

Model PSB - Air Return

Specs	Air volume m³/h	Pressure Loss (Pa)	Noise (dB)
254	150	18	26
	200	35	33
	300	80	42
	400	145	55
336/440	200	8	22
	300	16	33
	400	30	42
	500	45	46
	700	80	55
530	200	5.5	<20
	300	13	20
	400	22	27
	500	35	35
	700	60	43

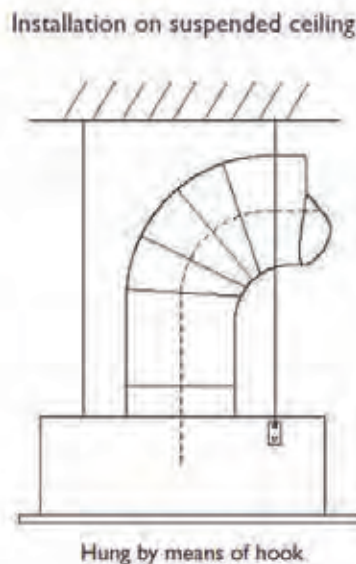
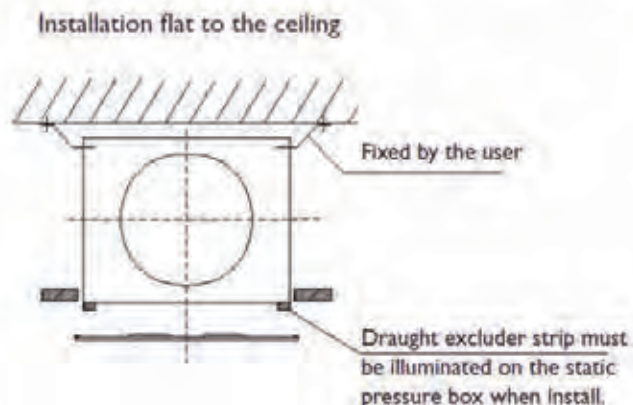
Square Swirl Diffusers

MODEL PSC

INSTALLATION

Installation flat to the ceiling is applicable to all types.

Min 2.6m from the bottom edge of the installation surface to the floor

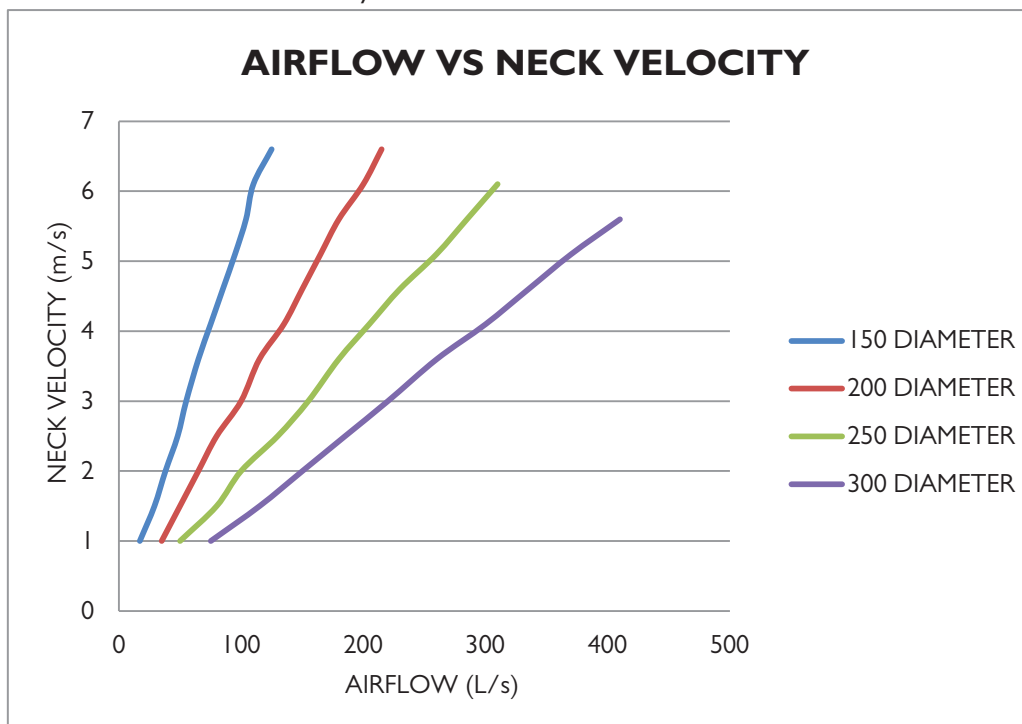


PERFORMANCE DATA

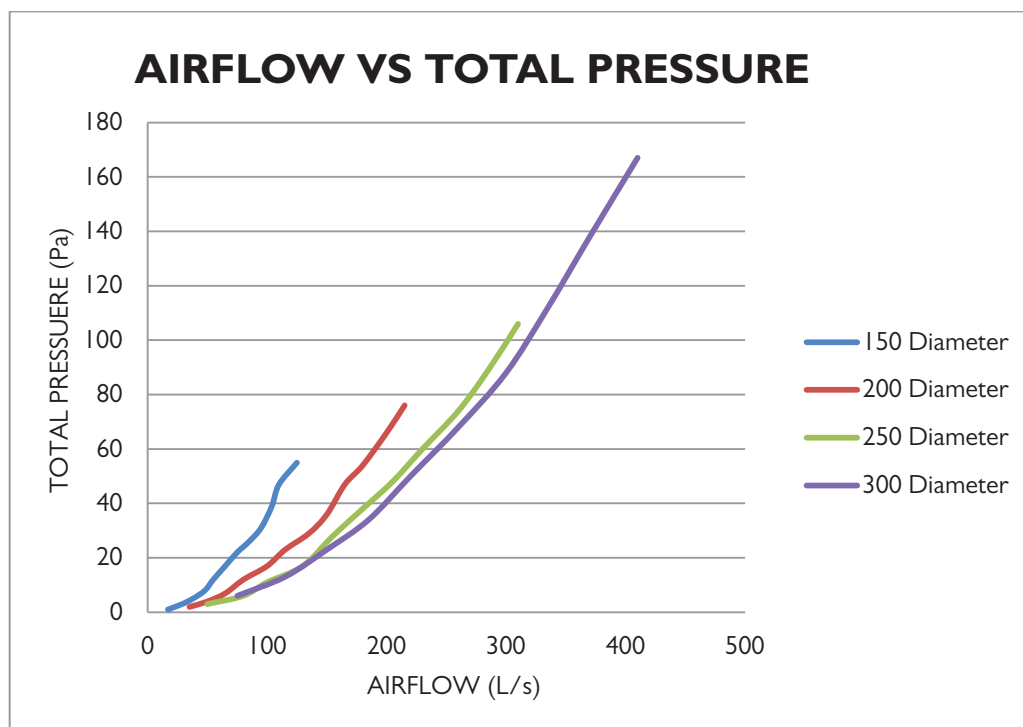
Notes:

1. Throw is calculated based on terminal velocity of 0.50 m/s.
2. The diameters represent the spigot diameter on the cushion head box.
3. Tests are conducted in accordance with ANSI/ASHRAE 70-1991 at isothermal conditions.
4. NC is based on 10dB room absorption evaluated between 125 to 500 Hz Octave bands.
5. All data shown are calculated for the diffuser Face/Neck - 595 mm / 535 mm.

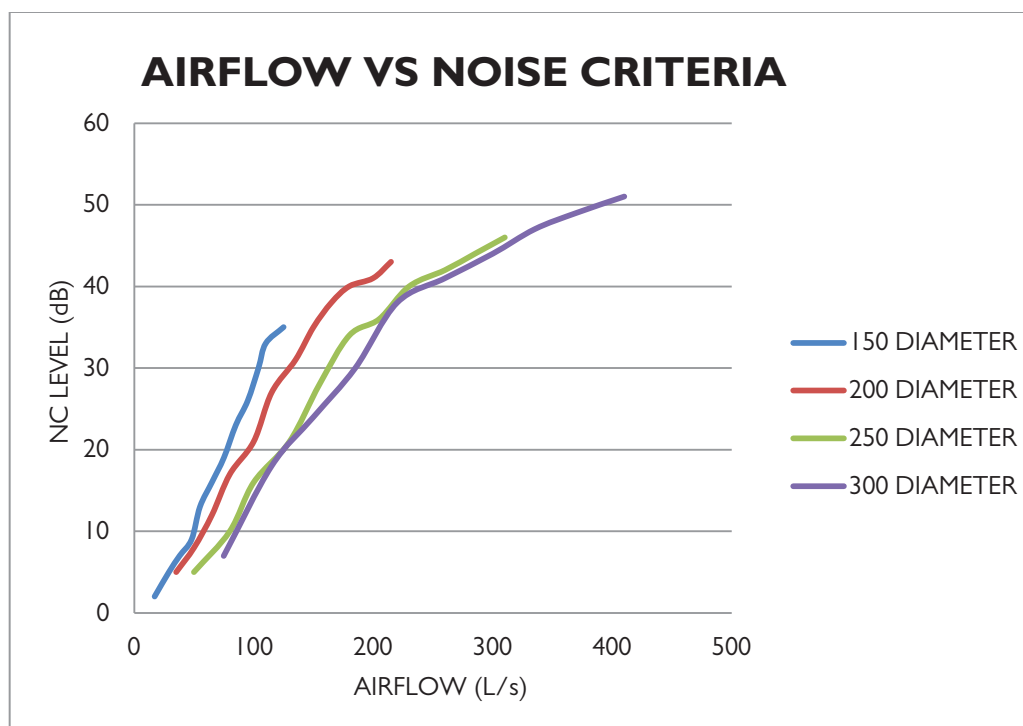
I. Airflow versus Neck Velocity



2. Airflow versus Total Pressure



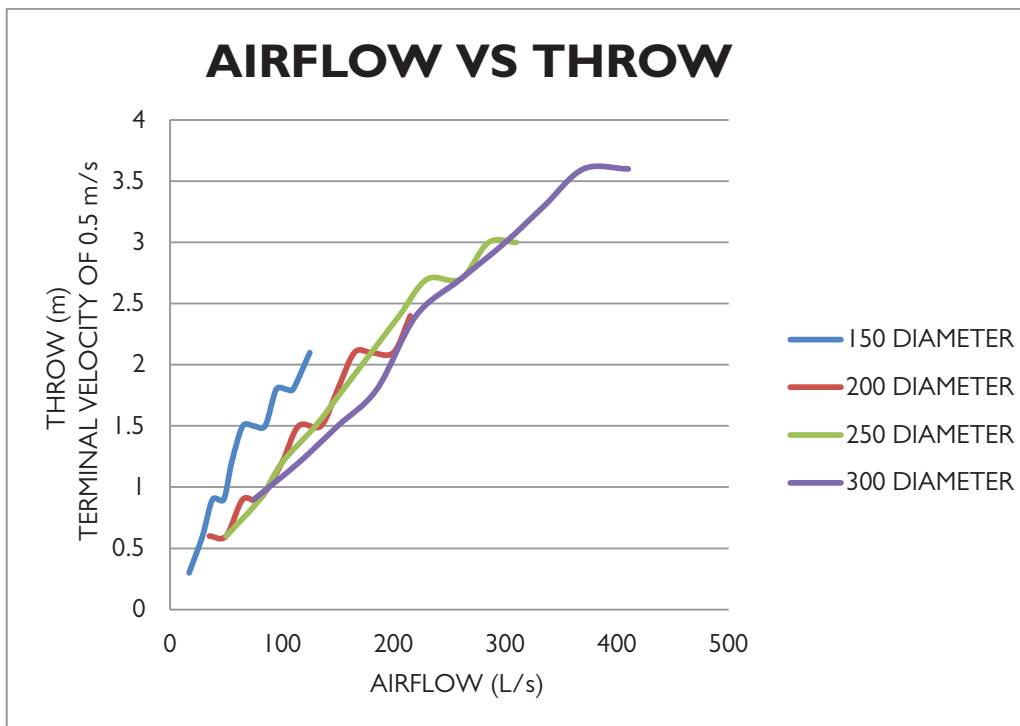
3. Airflow versus Noise Criteria



Square Swirl Diffusers

MODEL PSC

4. Airflow versus Throw



TOSHIBA

AIR CONDITIONING

Air Conditioning Systems



Polyaire supplies a complete range of Toshiba products which use the very latest in air conditioning technology and ensures optimum performance to enhance the quality of air in your home.

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Square Swirl Diffusers High Volume

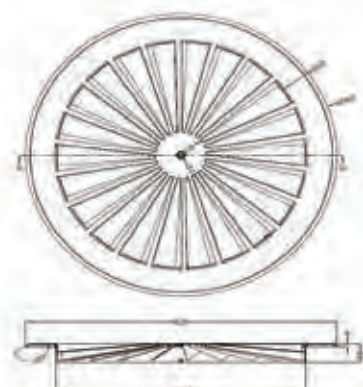
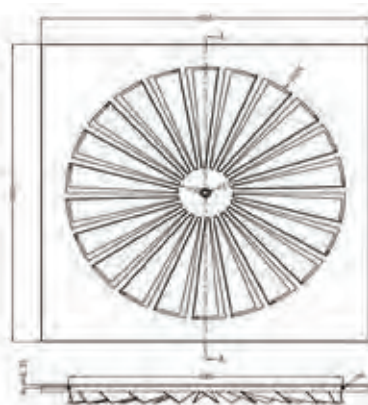
MODEL PSC-HV



The Polyaire PSC Hi-Volume Swirl Diffuser has fixed blades that create rotational as well as axial, tangential and radial air movement. This means that it produces a strong horizontal swirl, obtaining high induction levels, to allow the introduced flow to rapidly mix with the ambient air to reduce temperature and also perceived drafts or hot/cold spots.

The Polyaire PSC High Volume Swirl Diffuser is suitable for Low Temperature VAV Systems with a supply air temperature range of -15K to +10K. The standard PSC is made of cold rolled galvanized plate steel powder coated white (RAL9010).

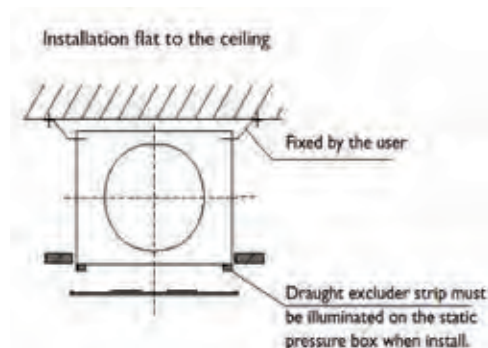
The face plate is 595 square and is suitable for surface mounting in the ceiling or alternatively as a layin for T-Bar ceiling installations. A 600mm dia Round Version is also available upon request



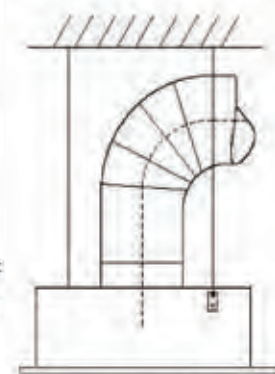
INSTALLATION DETAILS

Installation flat to the ceiling is applicable to all types.

Min. 26m from the bottom edge of the installation surface to the floor



Installation on suspended ceiling



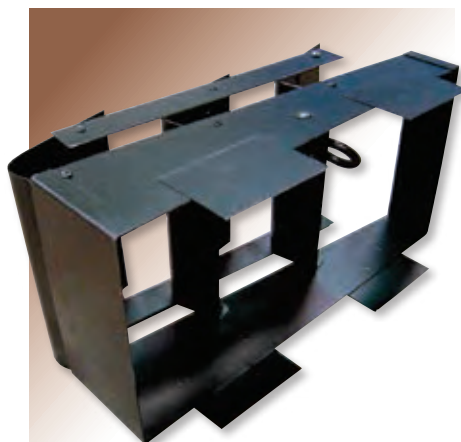
Performance Data

SPIGOT SIZE (mm)	Airflow (l/s)	100	125	150	175	200	250	300	350
200	Static Press (Pa)	2	3	6	-	-	-	-	-
	Throw (m)	1.4/0.6/0.3	1.7/0.9/0.4	2.3/1.1/0.8	-	-	-	-	-
	dB	<15	15	24	-	-	-	-	-
250	Static Press (Pa)	1	2	5	6	12	-	-	-
	Throw (m)	1.4/0.6/0.3	1.6/0.9/0.4	2.1/1.0/0.6	2.3/1.1/0.8	3.5/1.6/1.0	-	-	-
	dB	<15	<15	20	23	28	-	-	-
300	Static Press (Pa)	1	1	2	3	8	13	18	-
	Throw (m)	1.0/0.4/0.2	1.5/0.8/0.3	1.6/0.9/0.4	1.7/0.9/0.4	2.7/1.3/0.8	3.7/1.8/1.2	4.0/2.0/1.3	-
	dB	<15	<15	<15	15	25	32	37	-
350	Static Press (Pa)	-	-	-	-	13	17	20	25
	Throw (m)	-	-	-	-	3.6/1.7/1.1	4.0/2.0	3.9/1.9/1.2	4.7/2.3/1.5
	dB	-	-	-	-	31	37	39	41

Throws are based on Terminal Velocities of 0.25, 0.50 & 0.75

Stream Splitter Dampers

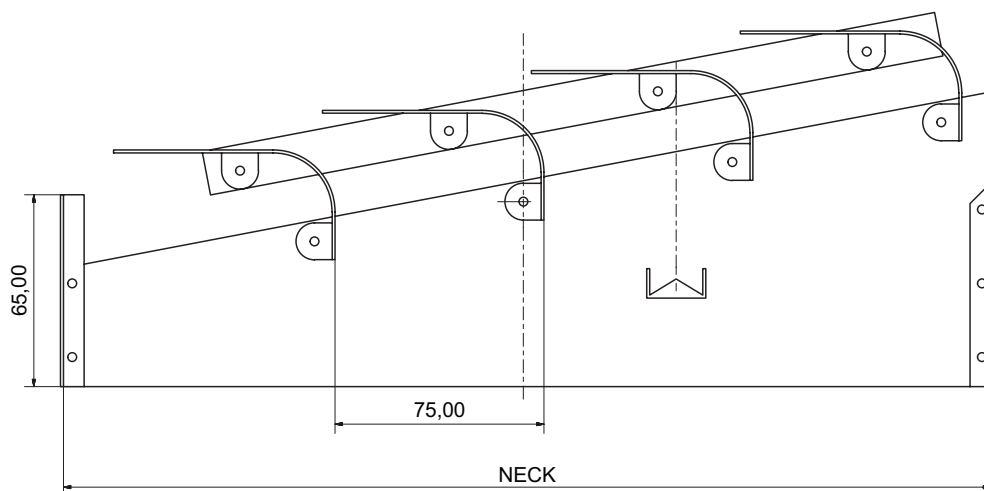
MODEL SSD



Polyaire Model SSD Stream Splitter Dampers are commonly used as a volume control device in supply air systems.

Stream Splitter dampers are mounted directly behind the supply air grille and provide the ability to be manually adjusted through the face of the Grille or Register. Construction is from Steel with a matt black finish.

Model SSD Stream Splitter Dampers are manufactured to order in a wide range of sizes.



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POLYPANEL

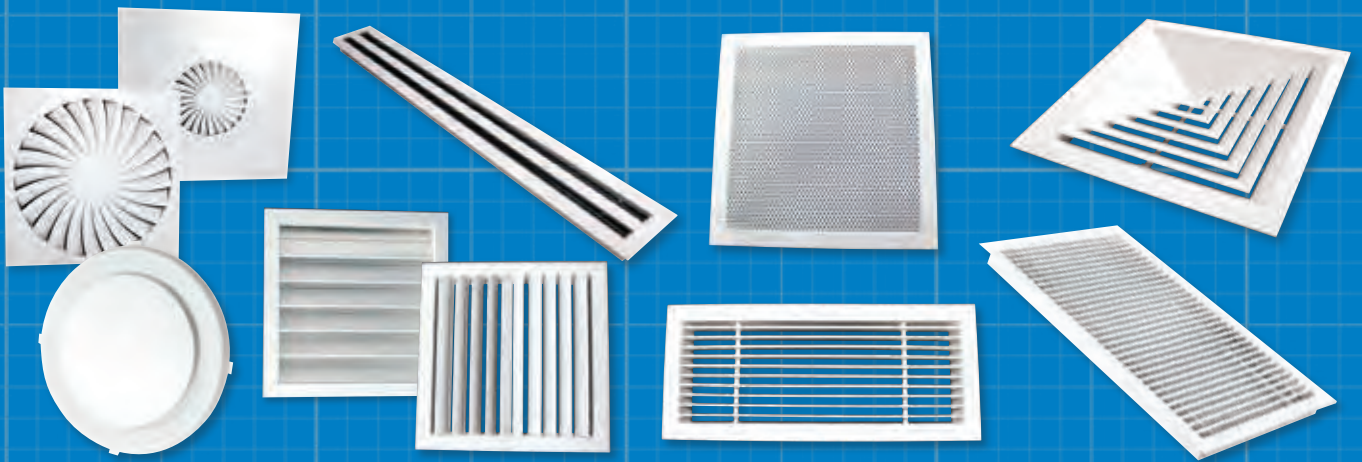
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COMPLETE & COMPLIANT

YOUR KEY SUPPLIER FOR COMMERCIAL AIR GRILLES



Our Products include:

- Grilles
- Flexible Duct
- Cushion Boxes
- VCDs
- NRDs
- Fire Dampers
- Zone Controls
- Air Conditioning Units

Polyaire understands the high standards in performance required for climate control systems in commercial applications.

With warehouses across Australia, Polyaire is well positioned to service the industry with high quality, readily available products and experienced people.

Custom Manufacturing Services Available.

REFRIGERATED DUCTED A/C

ORDER NUMBER

COMPANY

DELIVERY ADDRESS

CONTACT

PHONE NUMBER

DATE

DATE REQUIRED

DELIVERY TIME

SITE CONTACT

PHONE NUMBER

UNIT BRAND

UNIT MODEL

ADDITIONAL INFORMATION

FLEXIBLE DUCT		R VALUE	QUANTITY
150mm	6"		
200mm	8"		
250mm	10"		
300mm	12"		
350mm	14"		
400mm	16"		
450mm	18"		

CEILING REGISTERS		SIZE	QUANTITY
ROUND		150	
ROUND		200	
ROUND		250	
ROUND		300	

MDO-S		SPIGOT SIZE	QUANTITY
230 x 230			
300 x 300			
350 x 350			
400 x 400			

MOTOR DAMPERS		24V	240V
150			
200			
250			
300			
350			
400			

BRANCH TAKE OFF / Y's		QUANTITY
INSULATED		

RETURN AIR GRILLE w FILTER		QTY

RETURN AIR BOX		SPIGOT(s)	QTY

SUPPLY AIR PLENUM		SPIGOT(s)	QTY
RETURN AIR PLENUM		SPIGOT(s)	QTY

COLLARS		SIZE	JOINERS
		150	
		200	
		250	
		300	
		350	
		400	

DRIP TRAY			
830 x 830		1730 x 830	
1130 x 830		1250 x 750	
1430 x 830		1500 x 950	

PAIRCOIL		QTY
1/4 x 3/8		
1/4 x 1/2		
1/4 x 5/8		
3/8 x 5/8		
3/8 x 3/4		

ACCESSORIES		QTY
DUCT TAPE		
HANGING STRAP		
CHIP BOARD		
ISOLATION MOUNTS		

EVAPORATIVE COOLING

ORDER NUMBER

COMPANY

DELIVERY ADDRESS

CONTACT

PHONE NUMBER

DATE

DATE REQUIRED

DELIVERY TIME

SITE CONTACT

PHONE NUMBER

ADDITIONAL INFORMATION

FLEXIBLE DUCT	R VALUE	QUANTITY
150mm 6"		
200mm 8"		
250mm 10"		
300mm 12"		
350mm 14"		
400mm 16"		
450mm 18"		
500mm 20"		

MDO-S	SPIGOT SIZE	QUANTITY
230 x 230		
300 x 300		
350 x 350		
400 x 400		

MDO-X	SPIGOT SIZE	QUANTITY
230 x 230		
300 x 300		
350 x 350		
400 x 400		
450 x 450		
525 x 350		

BRANCH TAKE OFF / Y's	QUANTITY
INSULATED	

PLENUMS	QUANTITY
ACP 1	
ACP 2	
ACP 3	

PLENUMS	QUANTITY
ACP 1	
ACP 2	
ACP 3	

COLLARS	SIZE	JOINERS
	300	
	350	
	400	
	450	
	500	

DROPPER	550	900	1150
COLOUR			
550 x 550			
DROP-X (550 x 1150)			
AIR SOCK			
DEKITE FLASHING			
BACK FLASHING			
SQUARE - 550 x 550			

ACCESSORIES	QTY
DUCT TAPE	
HANGING STRAP	

ADDITIONAL ITEMS	QTY

GAS DUCTED HEATING

ORDER NUMBER

COMPANY

DELIVERY ADDRESS

CONTACT

PHONE NUMBER

DATE

DATE REQUIRED

DELIVERY TIME

SITE CONTACT

PHONE NUMBER

ADDITIONAL INFORMATION

FLEXIBLE DUCT		R VALUE	QUANTITY
150mm	6"		
200mm	8"		
250mm	10"		
300mm	12"		
350mm	14"		
400mm	16"		

CEILING REGISTERS	SIZE	QUANTITY
ROUND	150	
ROUND	200	
ROUND	250	
ROUND	300	

MDO-S	SPIGOT SIZE	QUANTITY
230 x 230		
300 x 300		
350 x 350		
400 x 400		

FLOOR REGISTERS	COLOUR	QUANTITY
300 x 100		
300 X 150		

FLOOR BOOTS	DIA	QUANTITY
300 x 100		
300 x 150		

MOTOR DAMPERS	24V	240V
150		
200		
250		
300		
350		
400		

BRANCH TAKE OFF / Y's		QUANTITY
PLAIN	INSULATED	

COLLARS	SIZE	JOINERS
	150	
	200	
	250	
	300	
	350	
	400	

ACCESSORIES	QTY
DUCT TAPE	
HANGING STRAP	
CHIP BOARD	
100MM FLUE	
100MM GAS COWL	
100MM 45 DEGREE BEND	
100MM 90 DEGREE BEND	

CUSTOMER NAME: DATE:

PHONE: MOBILE:

ADDRESS:

..... INSTALL DATE:



QUOTE NO:

CONSULTANT:

<div>SYSTEM TYPE</div> <div><input type="checkbox"/> Wall Split</div> <div><input type="checkbox"/> Ducted Split</div> <div><input type="checkbox"/> Ducted Gas</div> <div><input type="checkbox"/> Evaporative</div> <div>ROOF STYLE</div> <div><input type="checkbox"/> Tiled</div> <div><input type="checkbox"/> Steel</div> <div>Other</div> <div>Colour</div> <div>PLUMBING LOCATION</div> <div>Water</div> <div>Gas</div> <div>ELEC/BOARD LOCATION</div> <div><input type="checkbox"/> Single Phase</div> <div><input type="checkbox"/> Three Phase</div> <div>COMMENTS</div> <div>ZONEMASTER SYSTEM</div> <div>POLYAIRE DUCT & FITTINGS</div>	
--	--

Polyaire Diffusion Fitting Specification Sheet

DATE: ORDER NO:

JOB NAME: ORDERED BY:

COMPANY:

Place tick ☒ in circles to indicate configuration required

NOTE: LEAVE BLANK = NO OUTLET HOLE CUT

MOTOR TYPE

- ☐ 24 Volt Plug In (Green Unipoint)
- ☐ 24 Volt with Lead (Green)
- ☐ 24 Volt VAV (Yellow)
- ☐ 240 Volt (White)

- Outlet 2**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

- Outlet 1**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐



- Inlet**
- ☐ 400mm
 - ☐ 350mm

- Outlet 3**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

- Outlet 4**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

MOTOR TYPE

- ☐ 24 Volt Plug In (Green Unipoint)
- ☐ 24 Volt with Lead (Green)
- ☐ 24 Volt VAV (Yellow)
- ☐ 240 Volt (White)

- Outlet 2**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

- Outlet 1**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐



- Inlet**
- ☐ 400mm
 - ☐ 350mm

- Outlet 3**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

- Outlet 4**
- Leave Blank ☐
 - 300mm ☐
 - 250mm ☐
 - Manual Damper ☐
 - Motorised Damper ☐

Quick Fix Fitting Specification Sheet

DATE: ORDER NO:

JOB NAME: ORDERED BY:

COMPANY:

Place X to indicate configuration required

NOTE: NO BLANK OUTLETS PERMITTED. ALL OUTLETS COME WITH BLADES

CODE: 340001
DESCRIPTION: QFF 400

Outlet 2

- ☐ 300mm Spigot
☐ 300-250mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

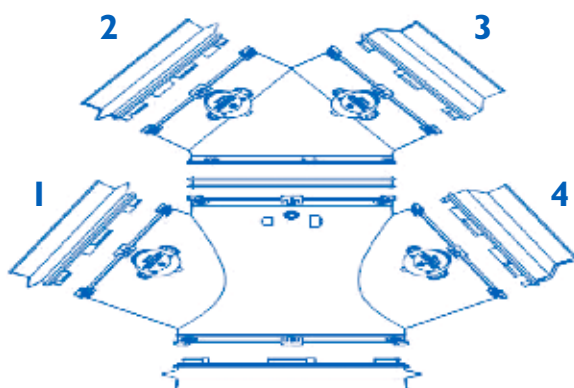
Outlet 1

- ☐ 300mm Spigot
☐ 300-250mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)



INLET

- ☐ 400mm Spigot
☐ 400-350mm Reducer

Outlet 3

- ☐ 300mm Spigot
☐ 300-250mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

Outlet 4

- ☐ 300mm Spigot
☐ 300-250mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

CODE: 340002
DESCRIPTION: QFF 450

Outlet 2

- ☐ 350mm Spigot
☐ 350-300mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

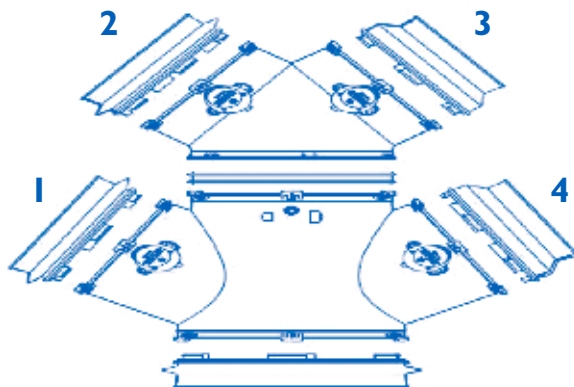
Outlet 1

- ☐ 350mm Spigot
☐ 350-300mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)



INLET

- ☐ 450mm Spigot - Default

Outlet 3

- ☐ 350mm Spigot
☐ 350-300mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

Outlet 4

- ☐ 350mm Spigot
☐ 350-300mm Reducer

Manual Damper

Motorised Damper (Select Motor)

- ☐ 24 Volt Plug In (Green UniPoint)
☐ 24 Volt with Lead (Green)
☐ 24 Volt VAV (Yellow)
☐ 240 Volt (White)

Quick Fix Fitting Specification Sheet

DATE: ORDER NO:
 JOB NAME: ORDERED BY:
 COMPANY:

Place X to indicate configuration required

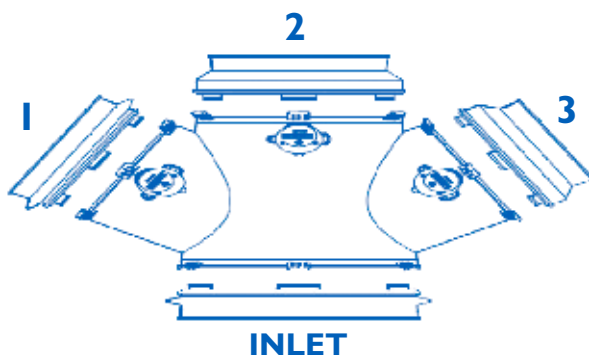
NOTE: NO BLANK OUTLETS PERMITTED. ALL OUTLETS COME WITH BLADES

CODE: 3400 I 0
 DESCRIPTION: QF DB 400

- Outlet 1**
- ☐ 300mm Spigot
 - ☐ 300-250mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)

- Outlet 2**
- ☐ 350mm Spigot
 - ☐ 350-300mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)

- Outlet 3**
- ☐ 300mm Spigot
 - ☐ 300-250mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)



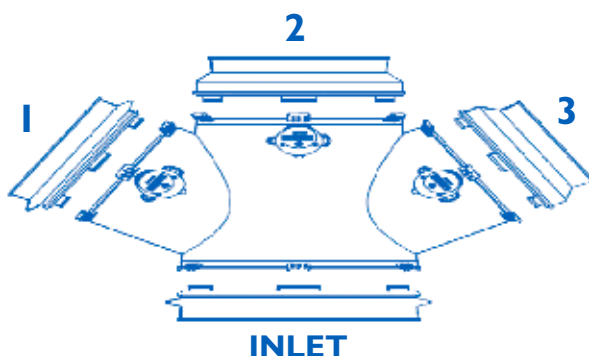
- INLET**
- ☐ 400mm Spigot
 - ☐ 400-350mm Reducer

CODE: 3400 I 1
 DESCRIPTION: QF DB 450

- Outlet 1**
- ☐ 350mm Spigot
 - ☐ 350-300mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)

- Outlet 2**
- ☐ 400mm Spigot
 - ☐ 400-350mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)

- Outlet 3**
- ☐ 350mm Spigot
 - ☐ 350-300mm Reducer
 - ☐ **Manual Damper**
 - ☐ **Motorised Damper (Select Motor)**
 - ☐ 24 Volt Plug In (Green UniPoint)
 - ☐ 24 Volt with Lead (Green)
 - ☐ 24 Volt VAV (Yellow)
 - ☐ 240 Volt (White)



- INLET**
- ☐ 450mm Spigot - Default

Quick Fix Fitting Specification Sheet

DATE: **ORDER NO:**

JOB NAME: **ORDERED BY:**

COMPANY:

Place X to indicate configuration required

NOTE: NO BLANK OUTLETS PERMITTED. ALL OUTLETS COME WITH BLADES

CODE: 340020

DESCRIPTION: QF Y 350

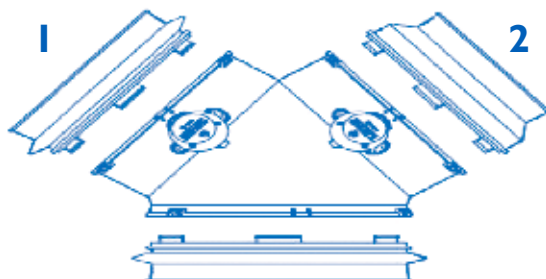
Outlet 1

- 300mm Spigot ☐
300-250mm Reducer ☐

Manual Damper ☐

Motorised Damper (Select Motor)

- 24 Volt Plug In (Green UniPoint) ☐
24 Volt with Lead (Green) ☐
24 Volt VAV (Yellow) ☐
240 Volt (White) ☐



INLET

- 350mm Spigot ☐
350-300mm Reducer ☐

Outlet 2

- 300mm Spigot ☐
300-250mm Reducer ☐

Manual Damper ☐

Motorised Damper (Select Motor)

- 24 Volt Plug In (Green UniPoint) ☐
24 Volt with Lead (Green) ☐
24 Volt VAV (Yellow) ☐
240 Volt (White) ☐

CODE: 340021

DESCRIPTION: QF Y 400

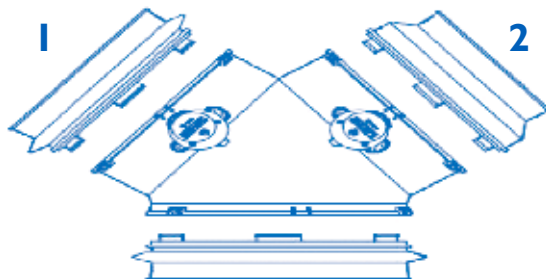
Outlet 1

- 350mm Spigot ☐
350-300mm Reducer ☐

Manual Damper ☐

Motorised Damper (Select Motor)

- 24 Volt Plug In (Green UniPoint) ☐
24 Volt with Lead (Green) ☐
24 Volt VAV (Yellow) ☐
240 Volt (White) ☐



INLET

- 400mm Spigot ☐
400-350mm Reducer ☐

Outlet 2

- 350mm Spigot ☐
350-300mm Reducer ☐

Manual Damper ☐

Motorised Damper (Select Motor)

- 24 Volt Plug In (Green UniPoint) ☐
24 Volt with Lead (Green) ☐
24 Volt VAV (Yellow) ☐
240 Volt (White) ☐

QUICK CONNECT AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y1

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 150⁰mm



Damper

○ 150mm

○ 24 = 24V Plug In
D15024

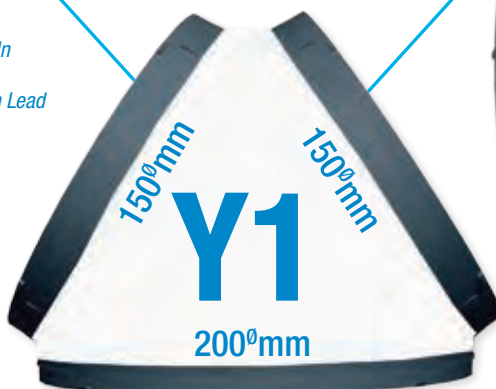
○ 24L = 24V With Lead
D15024L

○ 240 = 240V
D150240



Spigot

○ 150mm
S15



Outlet 2: 150⁰mm



Damper

○ 150mm

○ 24 = 24V Plug In
D15024

○ 24L = 24V With Lead
D15024L

○ 240 = 240V
D150240



Spigot

○ 150mm
S15

Inlet: 200⁰mm



Damper

○ 200mm

○ 24 = 24V Plug In
D20024

○ 24L = 24V With Lead
D20024L

○ 240 = 240V
D200240



Spigot

○ 200mm
S20



Reducer

○ 150mm
(200>150mm)
R2015

QUICK CONNECT
AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y2

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 200⁰mm



Damper

- ☐ 200mm
- ☐ 24 = 24V Plug In
D20024
- ☐ 24L = 24V With Lead
D20024L
- ☐ 240 = 240V
D200240



Spigot

- ☐ 200mm
S20



Reducer

- ☐ 150mm
(200>150mm)
R2015

Outlet 2: 200⁰mm



Damper

- ☐ 200mm
- ☐ 24 = 24V Plug In
D20024
- ☐ 24L = 24V With Lead
D20024L
- ☐ 240 = 240V
D200240



Spigot

- ☐ 200mm
S20



Reducer

- ☐ 150mm
(200>150mm)
R2015



Inlet: 250⁰mm



Damper

- ☐ 250mm
- ☐ 24 = 24V Plug In
D25024
- ☐ 24L = 24V With Lead
D25024L
- ☐ 240 = 240V
D250240



Spigot

- ☐ 250mm
S25



Reducer

- ☐ 200mm
(250>200mm)
R2520
- ☐ 150mm
(250>150mm)
R2515

QUICK CONNECT AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y3

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 250⁰mm



Damper

- ☐ 250mm
- ☐ 24 = 24V Plug In
D25024
- ☐ 24L = 24V With Lead
D25024L
- ☐ 240 = 240V
D250240



Spigot

- ☐ 250mm
S25



Reducer

- ☐ 200mm
(250>200mm)
R2520
- ☐ 150mm
(250>150mm)
R2515

Outlet 2: 250⁰mm



Damper

- ☐ 250mm
- ☐ 24 = 24V Plug In
D25024
- ☐ 24L = 24V With Lead
D25024L
- ☐ 240 = 240V
D250240



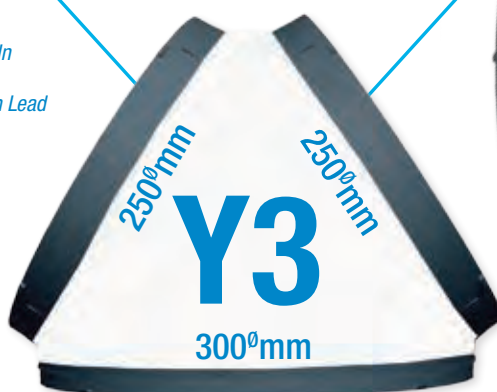
Spigot

- ☐ 250mm
S25



Reducer

- ☐ 200mm
(250>200mm)
R2520
- ☐ 150mm
(250>150mm)
R2515



Inlet: 300⁰mm



Damper

- ☐ 300mm
- ☐ 24 = 24V Plug In
D30024
- ☐ 24L = 24V With Lead
D30024L
- ☐ 240 = 240V
D300240



Spigot

- ☐ 300mm
S30



Reducer

- ☐ 250mm
(300>250mm)
R3025
- ☐ 200mm
(300>200mm)
R3020

QUICK CONNECT
AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y4

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 300⁰mm



Damper

- ☐ 300mm
- ☐ 24 = 24V Plug In
D30024
- ☐ 24L = 24V With Lead
D30024L
- ☐ 240 = 240V
D300240



Spigot

- ☐ 300mm
S30



Reducer

- ☐ 250mm
(300>250mm)
R3025
- ☐ 200mm
(300>200mm)
R3020

Outlet 2: 300⁰mm



Damper

- ☐ 300mm
- ☐ 24 = 24V Plug In
D30024
- ☐ 24L = 24V With Lead
D30024L
- ☐ 240 = 240V
D300240



Spigot

- ☐ 300mm
S30



Reducer

- ☐ 250mm
(300>250mm)
R3025
- ☐ 200mm
(300>200mm)
R3020



Inlet: 350⁰mm



Damper

- ☐ 350mm
- ☐ 24 = 24V Plug In
D35024
- ☐ 24L = 24V With Lead
D35024L
- ☐ 240 = 240V
D350240



Spigot

- ☐ 350mm
S35



Reducer

- ☐ 300mm
(350>300mm)
R3530
- ☐ 250mm
(350>250mm)
R3525

QUICK CONNECT AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y5

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 350⁰mm



Damper

- ☐ 350mm
- ☐ 24 = 24V Plug In
D35024
- ☐ 24L = 24V With Lead
D35024L
- ☐ 240 = 240V
D350240



Spigot

- ☐ 350mm
S35



Reducer

- ☐ 300mm
(350>300mm)
R3530
- ☐ 250mm
(350>250mm)
R3525

Outlet 2: 350⁰mm



Damper

- ☐ 350mm
- ☐ 24 = 24V Plug In
D35024
- ☐ 24L = 24V With Lead
D35024L
- ☐ 240 = 240V
D350240



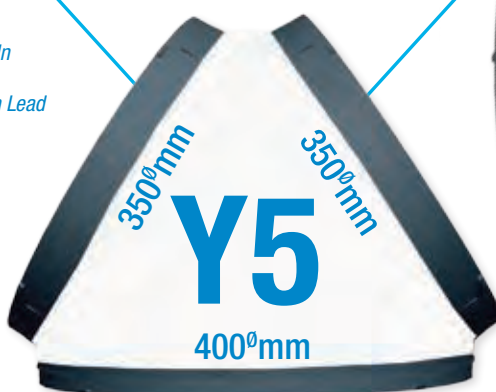
Spigot

- ☐ 350mm
S35



Reducer

- ☐ 300mm
(350>300mm)
R3530
- ☐ 250mm
(350>250mm)
R3525



Inlet: 400⁰mm



Damper

- ☐ 400mm
- ☐ 24 = 24V Plug In
D40024
- ☐ 24L = 24V With Lead
D40024L
- ☐ 240 = 240V
D400240



Spigot

- ☐ 400mm
S40



Reducer

- ☐ 350mm
(400>350mm)
R4035
- ☐ 300mm
(400>300mm)
R4030

QUICK CONNECT
AIR CONDITIONING FITTINGS



Faster



Smarter



Stronger

polyaire

ORDER FORM

Configured 'Y' Fittings

Y6

ORDERING DETAILS

Supplied with spigots for duct connection.

Polyaire can supply custom sizes on request (Minimum order quantities may apply).

DATE:

ORDER NO:

JOB NAME:

ORDERED BY:

COMPANY:

Outlet 1: 400⁰mm



Damper

- ☐ 400mm
- ☐ 24 = 24V Plug In
D40024
- ☐ 24L = 24V With Lead
D40024L
- ☐ 240 = 240V
D400240



Spigot

- ☐ 400mm
S40



Reducer

- ☐ 350mm
(400>350mm)
R4035
- ☐ 300mm
(400>300mm)
R4030



Outlet 2: 400⁰mm



Damper

- ☐ 400mm
- ☐ 24 = 24V Plug In
D40024
- ☐ 24L = 24V With Lead
D40024L
- ☐ 240 = 240V
D400240



Spigot

- ☐ 400mm
S40



Reducer

- ☐ 350mm
(400>350mm)
R4035
- ☐ 300mm
(400>300mm)
R4030

Inlet: 450⁰mm

Spigot



- ☐ 450mm
S45

Reducer



- ☐ 400mm
(450>400mm)
R4540
- ☐ 350mm
(450>350mm)
R4535

ACT / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

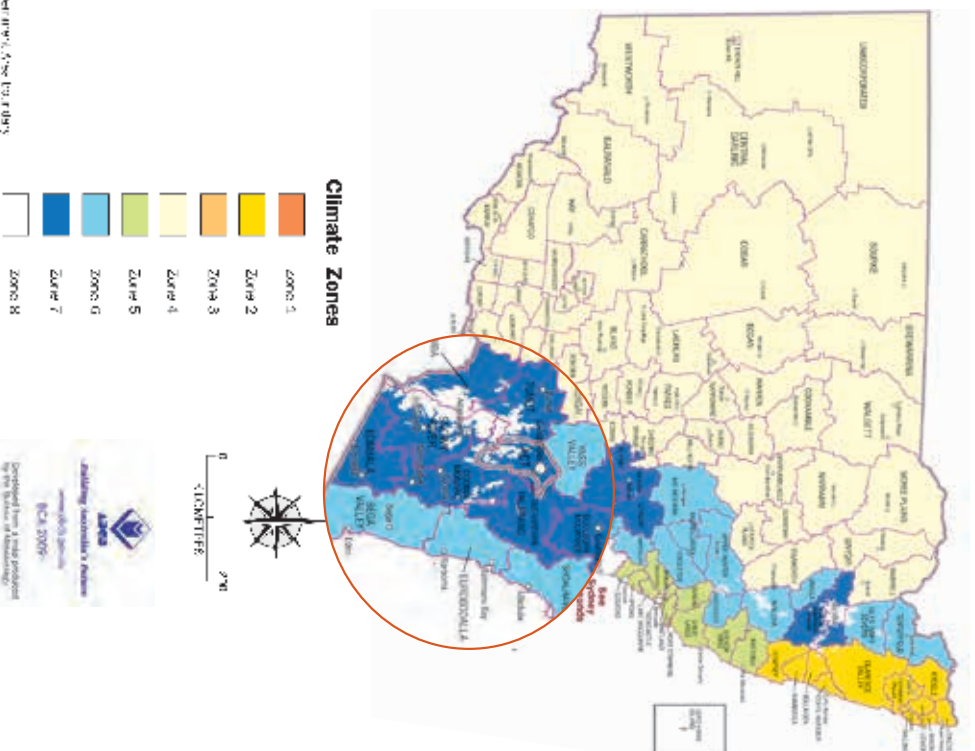
BCA 2013 is mandatory for all Class 1 + 10 domestic buildings in ACT issued with a building permit from May 1 2013.

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1 "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
- All duct in a heating system that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_m 0.4 for all fittings in all installation.
- R_m 1.0 for all duct in all heating only, refrigerated cooling only and evap cooler only systems except zone 8 where R_m 1.5 is required.
- R_m 1.5 for all duct in reverse cycle and add on cooling systems. (see note).
- R_m 0.6 insulation can only be used on duct within "the insulated building envelope" e.g. in riser shafts and in between floors.

Note: R_m 1.0 may be used in reverse cycle and add on cooling systems only in climate zone 7 if the ducts are:

- Under a suspended floor within an enclosed perimeter or
- In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils can usually achieve R0.5.



This is a guide only. Please confirm this information with your territory regulator

Commercial Applications

BCA 2013 is mandatory for all commercial buildings in ACT issued with a building permit from May 1 2013

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1 "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
 - All duct in all systems must be fire rated to AS 4254.1:2012
 - R_m 2.0 duct and fittings must be used on all in heating, cooling and evaporative installations unless:
- Duct is no more than 3 meters in length to an outlet or from an inlet then R_m 1.0 is acceptable.
 - Duct and fittings are installed within a "conditioned space" which require, Zone 7- R_m 1.2, Zone 8- R_m 1.6.
 - Duct and fittings are installed in Zone 8 which requires R_m R 2.4.

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.

New South Wales / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2013 is mandatory for all Class 1 + 10 domestic buildings in NSW issued with a building permit from May 1 2013:

BCA 2013 specifics:

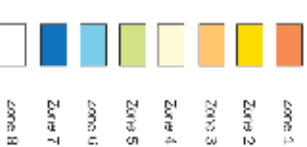
- Material R Values: (R Value of insulation only) must be used on flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead of a total R Value (R_{m1}).
- All duct in a heating system that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_{m1} 0.4 for fittings in all installations
- R_{m1} 0.6 insulation can only be used on duct within 'the insulated building envelope' e.g. in riser shafts and in between floors
- R_{m1} 1.0 for duct in all heating only refrigerated cooling only and evaporative cooler only systems (except zone 8, R_{m1} .5 is required)
- R_{m1} 1.5 for duct in all reverse cycle and add on cooling systems, except in climate zones 2 and 5 where R_{m1} 1.0 is acceptable. (see note).

Note: R_{m1} 1.0 may be used in reverse cycle and add on cooling systems only in climate zones 4, 6 and 7 if the ducts are:

- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils can usually achieve R0.5.

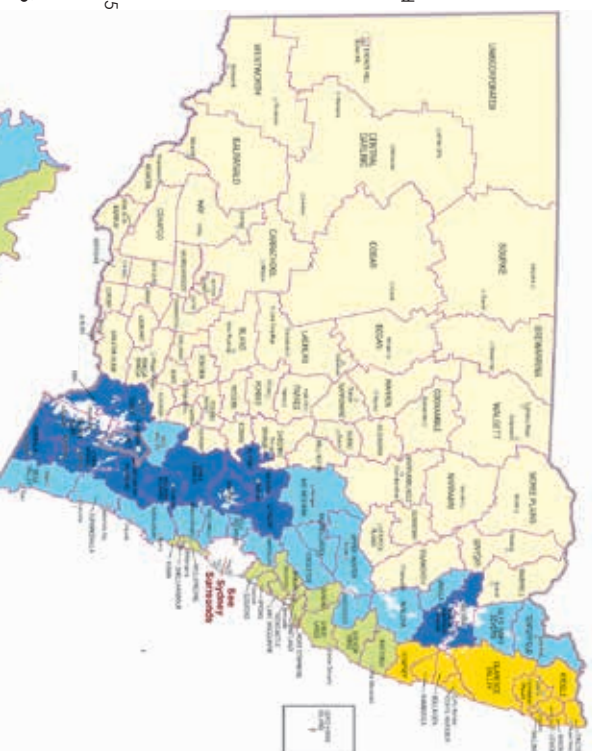
Note: Class 1 & 10 buildings are subject to BASIX but still use section 3.12.5.3 for flexible duct.

Climate Zones



Source: Climate NSW, 2006, 2012 & 2013

This is a guide only. Please confirm this information with your state regulator



Sydney Surrounds

Sydney Urban



Commercial Applications

BCA 2013 is mandatory for most classes of commercial buildings in NSW issued with a building permit from May 1 2013 including:

Building classes 3, 5, 6, 7 & 9.

Note: Class 2 and a class 4 are subject to BASIX but still use section J for flexible duct.

BCA 2013 specifics:

- "Material R Values" (R_{m1}) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1 "Total R Values" (R_{t1}) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_{m1})
- All duct in all systems must be fire rated to AS 4254.1:2012
- R_{m1} 2.0 duct and fittings must be used on all in heating, cooling and evaporative installations unless:
- (a) Duct is no more than 3 meters in length to an outlet or from an inlet then R_{m1} 1.0 is acceptable.
- (b) Duct and fittings are installed within a "conditioned space" which require: Zones 2 and 5 - R_{m1} 1.2, Zones 4, 6 and 7 - R_{m1} 1.2 and zone 8 - R_{m1} 1.6
- (c) Duct and fittings are installed in Zone 8 which requires R_{m1} R 2.4.
- Dependant on building class and sub class BASIX requirements may also apply.

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_{m1}) or Total R Value (R_{t1}) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.

Northern Territory / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2009 is mandatory for all Class 1 + 10 domestic buildings in NT issued with a building permit from May 1 2009.

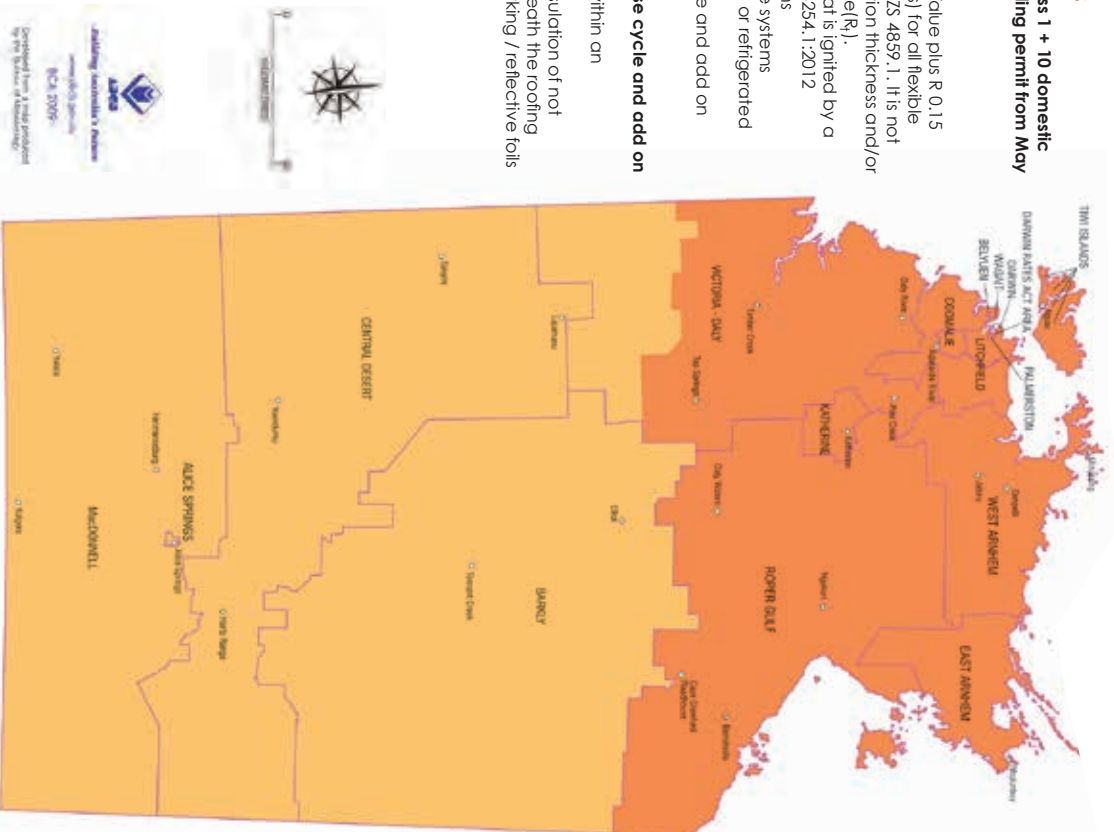
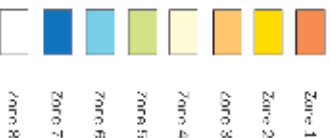
BCA 2009 specifics:

- Total R Values (R_t) (Insulation R Value plus R 0.15 allowance for outer air surfaces) for all flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead of a Total R Value(R_t).
- All duct in a heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_t 0.4 for fittings in all installations
- R_t 0.6 for duct in all evaporative systems
- R_t 1.0 for duct in all heating only or refrigerated cooling only systems.
- R_t 1.5 for duct in all reverse cycle and add on cooling systems (see note).

Note: R_t 1.0 may be used in reverse cycle and add on cooling systems if the ducts are:

- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils can usually achieve R0.5.

Climate Zones



Local climate zones are determined by



This is a guide only. Please confirm this information with your territory regulator

Commercial Applications

BCA 2009 is mandatory for commercial building Class 2 and a class 4 part of a building in NT issued with a building permit from May 1 2009.

Note: BCA Section J does not apply to class 3 and classes 5-9 buildings

BCA 2009 specifics:

- Total R Values (R_t) (Insulation R Value plus R 0.15 allowance for outer air surfaces) for all flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead of a Total R Value(R_t).
- All duct in all systems must be fire rated to AS 4254.1:2012
- R_t 0.4 for fittings in all installations.
- For systems less than 65 kW and 65 kW heating capacity, the following R_t duct is required:
 - R_t 0.6 for duct in all evaporative systems.
 - R_t 1.0 for duct in all heating only or refrigerated cooling only systems.
 - R_t 1.5 for duct in all Reverse cycle and add on cooling systems (see note).
- For systems greater than 65 kW and 65 kW heating capacity, the following R_t duct is required.
 - R_t 0.9 for duct in all evaporative cooling systems, except within a conditioned space, where no insulation is acceptable.
 - R_t 1.8 and R_t 1.5 duct in all heating only or refrigerated only systems in Climate Zones 1 and 2 respectively, except within a conditioned space where R_t 1.0 acceptable. (see note)

Note: R_t 1.0 may be used in reverse cycle and add on cooling systems if the ducts are:

- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing. NB Sarking / reflective foils alone are not sufficient.

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.

Queensland / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2013 is mandatory for all Class 1 + 10 buildings in QLD issued with a building permit from May 1 2013:

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1, "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
- All duct in a heating system that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_m 0.4 for all fittings in all installation.
- R_m 1.0 for all duct in all heating only, refrigerated cooling only and evap cooler only systems.
- R_m 1.5 for all duct in reverse cycle and add on cooling systems, except zone 2 and 5
- where R_m 1.0 is required (see note).
- R_m 0.6 insulation can only be used on duct within "the insulated building envelope" e.g. in riser shafts and in between floors.

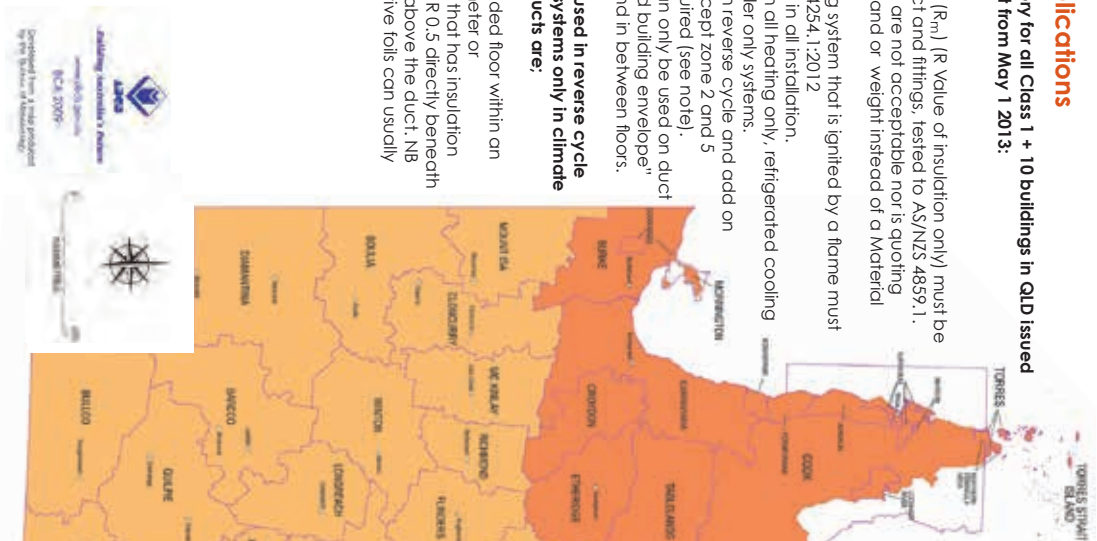
Note: R_m 1.0 may be used in reverse cycle and add on cooling systems only in climate zones 1 and 3 if the ducts are:

- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct, NB Sarking / reflective foils can usually achieve R0.5.

Climate Zones



Source: Bureau of Meteorology
Downloaded from a map published by the Bureau of Meteorology



Commercial Applications

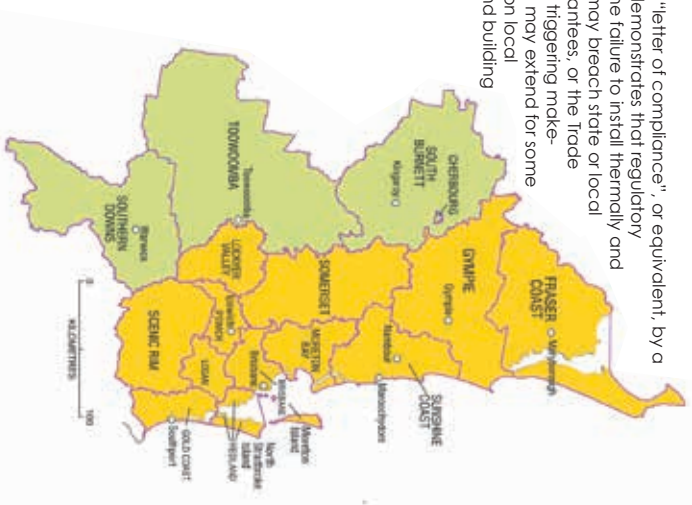
BCA 2013 is mandatory for most classes of buildings in QLD issued with a building permit from May 1 2013 in: Building classes 3, 4, 5, and 6, 7, 8, 9.

Note: building class 2 still comply with the requirements of BCA 2009.

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1, "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
 - All duct in all systems must be fire rated to AS 4254.1:2012
 - R_m 2.0 duct and fittings must be used on all in heating, cooling and evaporative installations unless:
- (a) Duct is no more than 3 meters in length to an outlet or from an inlet then R_m 1.0 is acceptable.
 - (b) Duct and fittings are installed within a "conditioned space" which require R_m 1.2.
- Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.



South Australia / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2013 is mandatory for all Class 1 + 10 domestic buildings in SA issued with a building permit from May 1 2013.

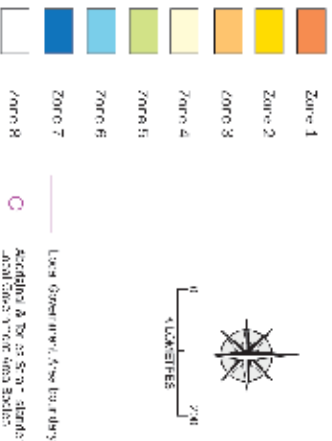
BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1, "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
- All duct in a heating system that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_m 0.4 for all fittings in all installation.
- R_m 1.0 for all duct in all heating only, refrigerated cooling only and evap cooler only systems.
- R_m 1.5 for all duct in reverse cycle and add on cooling systems, except zone 5 where R_m 1.0 is required (see note).
- R_m 0.6 insulation can only be used on duct within "the insulated building envelope" e.g. in riser shafts and in between floors.

Note: R_m 1.0 may be used in reverse cycle and add on cooling systems only in climate zones 4 and 6 if the ducts are:

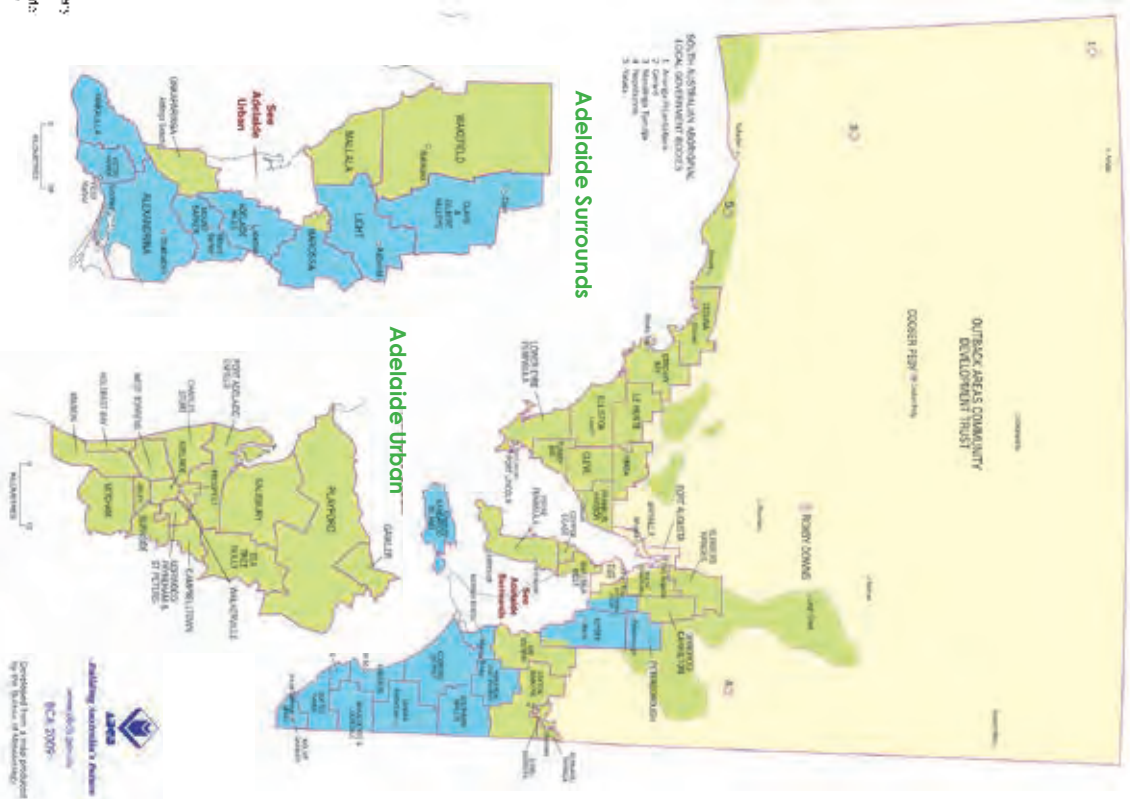
- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing, i.e. above the duct. NB Soaking / reflective foils can usually achieve R 0.5.

Climate Zones



This is a guide only. Please confirm this information with your state regulator

Adelaide Surrounds



Adelaide Urban



Commercial Applications

BCA 2013 is mandatory for all commercial buildings in SA issued with a building permit from May 1 2013:

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1 "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
 - All duct in oil systems must be fire rated to AS 4254.1:2012
 - R_m 2.0 duct and fittings must be used on all in heating, cooling and evaporative installations unless:
- (a) Duct is no more than 3 meters in length to an outlet or from an inlet then R_m 1.0 is acceptable.
 - (b) Duct and fittings are installed within a "conditioned space" which require Zone 5 R_m 1.2, Zones 4 and 6 – R_m 1.2

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts

Tasmania / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2009 is mandatory for all Class 1 + 10 domestic buildings in TAS issued with a building permit from May 1 2009:

BCA 2009 specifies:

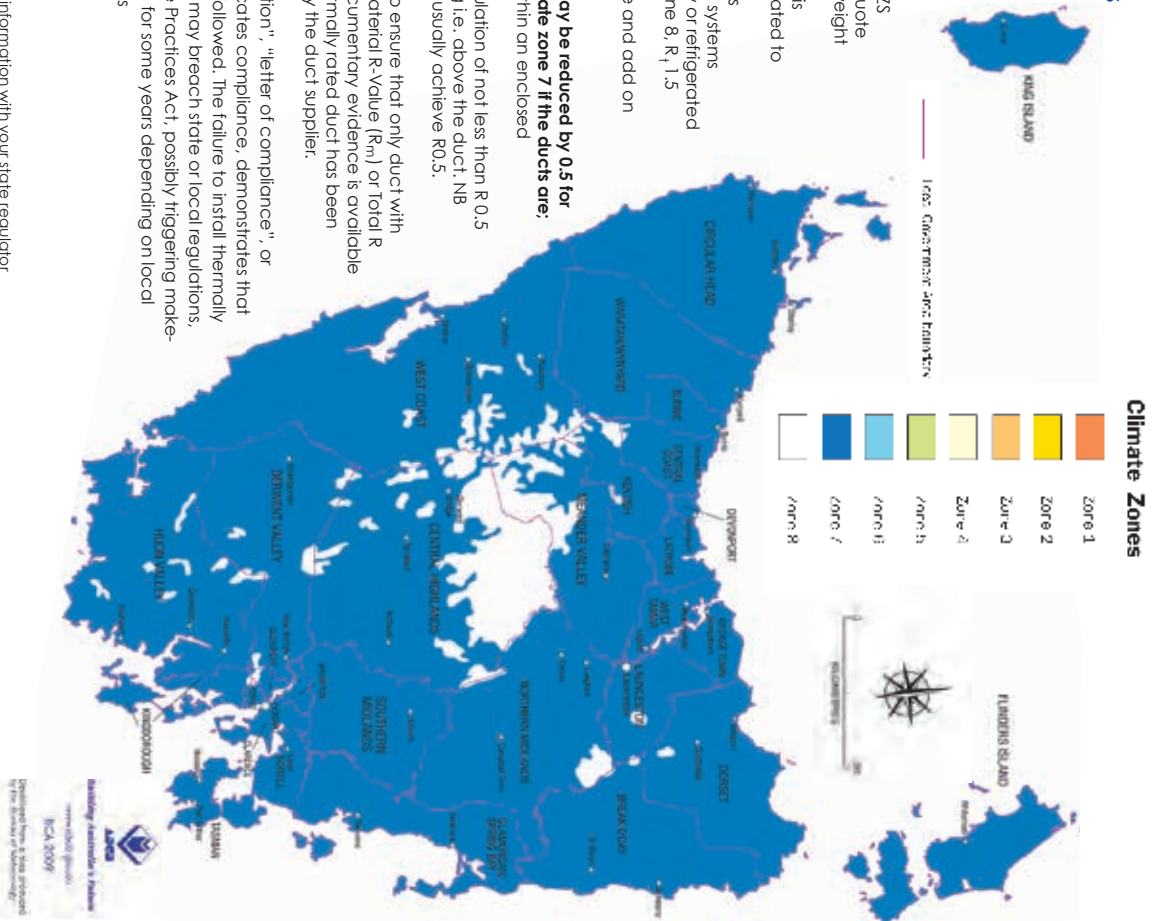
- Total R Values (R_t) (Insulation R Value Plus R 0.15 allowance for outer air surfaces) for all flexible duct and fittings tested to AS/NZS 4859.1, it is not acceptable to quote an insulation thickness and/or weight instead of a Total R Value (R_t).
- All duct in heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_t 0.4 for fittings in all installations
- R_t 0.6 for duct in all evaporative systems
- R_t 1.0 for duct in all heating only or refrigerated cooling only systems (except zone 8, R_t 1.5 is required)
- R_t 1.5 for duct in all reverse cycle and add on cooling systems (see note).

Note: R_t Value required for duct may be reduced by 0.5 for reverse cycle systems in only climate zone 7 if the ducts are:

- (a) Under a suspended floor within an enclosed perimeter or
- (b) In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils can usually achieve R0.5.

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts



Commercial Applications

BCA 2013 is mandatory for all commercial buildings issued with a building permit from May 1 2013:

- Building classes 2, 3, 4, 5, 6, 7, 8, 9.

BCA 2013 specifies:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings tested to AS/NZS 4859.1 "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
- All duct in all systems must be fire rated to AS 4254.1:2012
- R_m 2.0 duct and fittings must be used on all heating, cooling and evaporative installations unless:
 - (a) Duct is no more than 3 metres in length to an outlet or from an inlet then R_m 1.0 is acceptable
 - (b) Duct and fittings are installed within a "conditioned space" which require, Zone 7 - R_m 1.2, Zone 8 - R_m 1.6.
 - (c) Duct and fittings are installed in Zone 8 which requires R_m R 2.4.

Victoria / ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

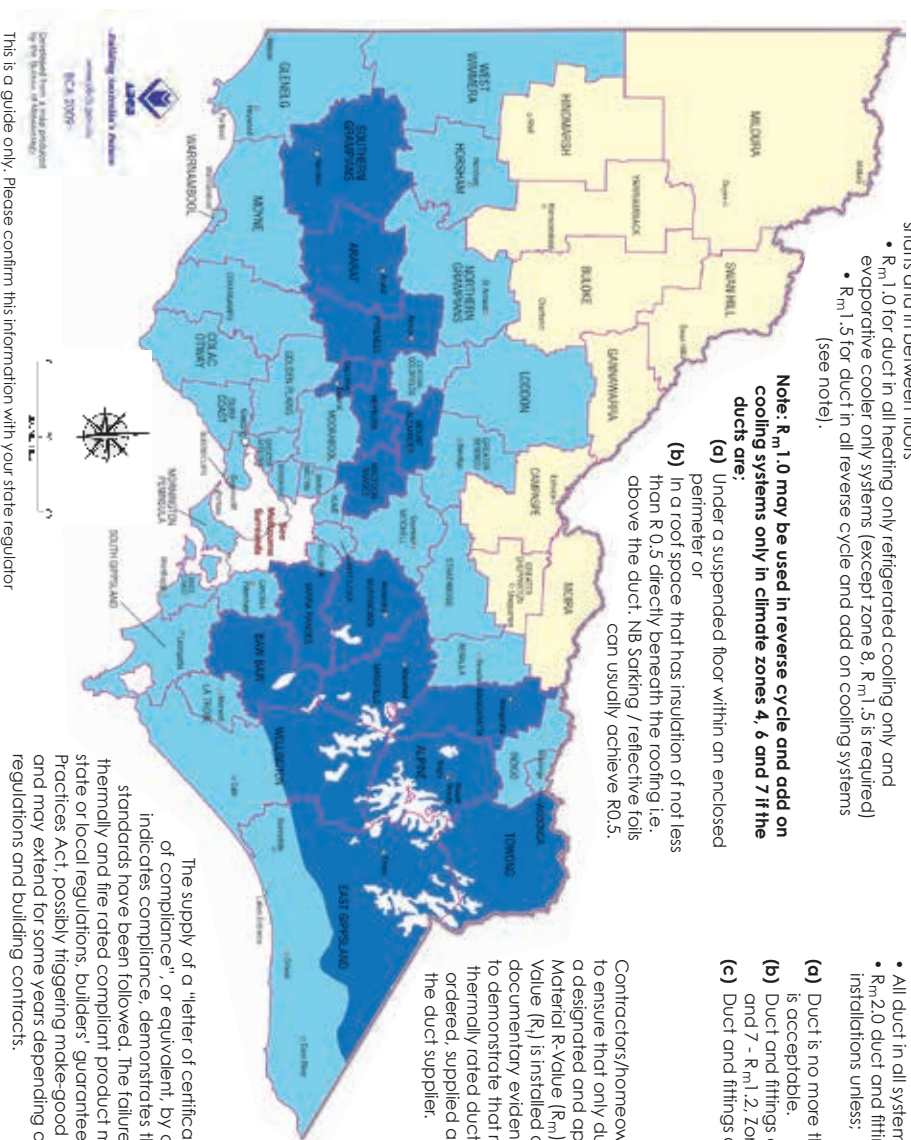
BCA 2013 applies to **All domestic buildings** issued with a building permit from May 1 2013:

BCA 2013 specifies:

- Material R Values (R Value of insulation only) must be used on flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead of a total R Value (R_{m1}).
- All duct in heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_{m1} 0.4 for fittings in all installations
- R_{m1} 0.6 insulation can only be used on duct within 'the insulated building envelope' e.g. in riser shafts and in between floors
 - R_{m1} 1.0 for duct in all heating only refrigerated cooling only and evaporative cooler only systems (except zone 8, R_{m1} .5 is required)
 - R_{m1} .5 for duct in all reverse cycle and odd on cooling systems (see note).

Note: R_{m1} 1.0 may be used in reverse cycle and odd on cooling systems only in climate zones 4, 6 and 7 if the ducts are:

- Under a suspended floor within an enclosed perimeter or
- In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct. NB Sarking / reflective foils can usually achieve R0.5.



The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.

Commercial Applications

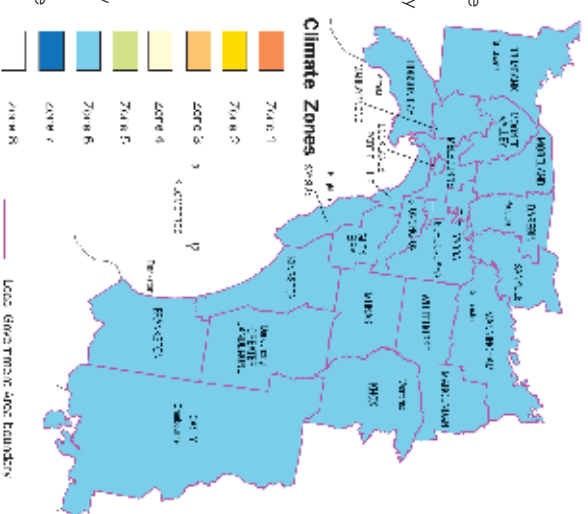
BCA 2013 is mandatory for **Commercial buildings** issued with a building permit from May 1 2013 in:

- * Building classes 2, 3, 4, 5, 6, 7, 8, 9.

BCA 2013 specifies:

- "Material R Values" (R_{m1}) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1. Total R Values (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_{m1}).
- All duct in all systems must be fire rated to AS 4254.1:2012
- R_{m1} 2.0 duct and fittings must be used on all heating, cooling and evaporative installations unless:
 - Duct is no more than 3 metres in length to an outlet or from an inlet then R_{m1} 1.0 is acceptable.
 - Duct and fittings are installed within a "conditioned space" which require, Zones 4, 6 and 7 - R_{m1} 2, Zone 8 - R_{m1} 1.6.
 - Duct and fittings are installed in Zone 8 which requires R_{m1} R 2.4.

Melbourne Surrounds



Western Australia/ ADMA-NCC (BCA) Flexible Duct, Thermal & Fire Rating Requirements from May 1 2013

Domestic Applications

BCA 2013 is mandatory for all Class 1 + 10 domestic buildings in WA issued with a building permit from May 1 2013.

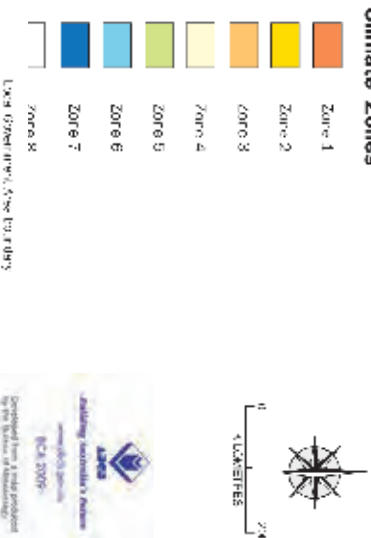
BCA 2013 specifics:

- Material R values (R Value of insulation only) must be used on flexible duct and fittings tested to AS/NZS 4859.1. It is not acceptable to quote an insulation thickness and/or weight instead of a Total R Value(R_t).
- All duct in a heating systems that is ignited by a flame must be fire rated to AS 4254.1:2012
- R_m 0.4 for fittings in all installations
- R_m 0.6 insulation can only be used on duct within 'the insulated building envelope' e.g in riser shafts and in between floors
- R_m 1.0 for duct in all heating only refrigerated cooling only and evaporative cooler only systems (except zone 8, R_m 1.5 is required)
- R_m 1.5 for duct in all reverse cycle and add on cooling systems, except zone 5 where R_m 1.0 is acceptable. (see note).

Note: R_m 1.0 may be used in reverse cycle and add on cooling systems only in climate zones 1, 3, 4, and 6 if the ducts are:

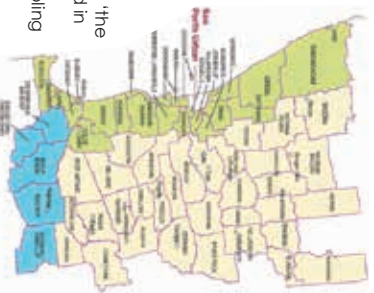
- Under a suspended floor within an enclosed perimeter or
 - In a roof space that has insulation of not less than R 0.5 directly beneath the roofing i.e. above the duct.
- NB Sarking / reflective foils can usually achieve R0.5.

Climate Zones



This is a guide only. Please confirm this information with your state regulator

Perth Surrounds



Perth Urban



Commercial Applications

BCA 2013 is mandatory for most classes of commercial buildings in WA issued with a building permit from May 1 2013.

Note: BCA 2013 calls up in BCA Vol. 1 Appendices Variations and Additions manual additional clauses, WA part JO parts (a) and (b) These clauses provide options on compliance to Class 2 buildings and Class 4 part of a building.

BCA 2013 specifics:

- "Material R Values" (R_m) (R Value of insulation only) must be used on flexible duct and fittings, tested to AS/NZS 4859.1 "Total R Values" (R_t) are not acceptable nor is quoting insulation thickness and or weight instead of a Material R-value (R_m).
- All duct in all systems must be fire rated to AS 4254.1:2012
- R_m 2.0 duct and fittings must be used on all in heating, cooling and evaporative installations unless:
- (a) Duct is no more than 3 meters in length to an outlet or from an inlet then R_m 1.0 is acceptable.
- (b) Duct and fittings are installed within a "conditioned space" which require Zones 1, 3 and 5-R_m 1.2, Zones 4 and 6 – R_m 1.2.

Contractors/homeowners need to ensure that only duct with a designated and appropriate Material R-Value (R_m) or Total R Value (R_t) is installed and that documentary evidence is available to demonstrate that required thermally rated duct has been ordered, supplied and installed by the duct supplier.

The supply of a "letter of certification", "letter of compliance", or equivalent, by a builder that indicates compliance, demonstrates that regulatory standards have been followed. The failure to install thermally and fire rated compliant product may breach state or local regulations, builders' guarantees, or the Trade Practices Act, possibly triggering make-good provisions, and may extend for some years depending on local regulations and building contracts.

Terms & Conditions of Trade

- 1. Definitions**
 - 1.1 "Seller" shall mean Polyaire Pty Ltd and its successors and assigns.
 - 1.2 "Buyer" shall mean the Buyer or any person acting on behalf of and with the authority of the Buyer.
 - 1.3 "Guarantor" means that person (or persons), or entity who agrees herein to be liable for the debts of the Buyer on a principal debtor basis.
 - 1.4 "Goods" shall mean any air conditioner/s, air conditioning products and/or air conditioning related products supplied by the Seller to the Buyer (and where the context so permits shall include any supply of Services as hereinafter defined).
 - 1.5 "Services" shall mean all services supplied by the Seller to the Buyer and includes any advice or recommendations (and where the context so permits shall include any supply of Goods as defined above).
 - 1.6 "Price" shall mean the cost of the Goods as agreed between the Seller and the Buyer subject to clause 4 of this contract.
- 2. Acceptance**
 - 2.1 Any instructions received by the Seller from the Buyer for the supply of Goods and/or the Buyer's acceptance Goods supplied by the Seller shall constitute acceptance of the terms and conditions contained herein.
 - 2.2 Where more than one Buyer has entered into this agreement, the Buyer's shall be jointly and severally liable for all payments of the Price.
 - 2.3 Upon acceptance of these terms and conditions by the Buyer the terms and conditions are irrevocable and can only be rescinded in accordance with these terms and conditions or with the written consent of the manager of the Seller.
 - 2.4 None of the Seller's agents or representatives are authorised to make any representations, statements, conditions or agreements not expressed by the manager of the Seller in writing nor is the Seller bound by any such unauthorised statements.
 - 2.5 The Buyer undertakes to give the Seller not less than fourteen (14) days prior written notice of any proposed change in the Buyer's name and/or any other change in the Buyer's details (including but not limited to, changes in the Buyer's address, facsimile number, or business practice).
- 3. Goods**
 - 3.1 The Goods are as described on the invoices, quotation, work authorisation or any other work commencement forms as provided by the Seller to the Buyer.
- 4. Price And Payment**
 - 4.1 At the Seller's sole discretion;
 - (a) The Price shall be as indicated on invoices provided by the Seller to the Buyer in respect of Goods supplied; or
 - (b) The Price shall be the Seller's current Price, at the date of delivery of the Goods, according to the Seller's current Price list; or
 - (c) The Price of the Goods shall (subject to clause 4.2) be the Seller's quoted Price which shall be binding upon the Seller provided that the Buyer shall accept in writing the Seller's quotation within thirty (30) days.
 - 4.2 Any variation from the plan of scheduled works or specifications will be charged for on the basis of the Seller's quotation and will be shown as variations on the invoice. Payment for all variations must be made in full at their time of completion.
 - 4.3 Time for payment for the Goods shall be of the essence and will be stated on the invoice, quotation or any other order forms. If no time is stated then payment shall be on delivery of the Goods.
 - 4.4 At the Seller's sole discretion, payment for approved Buyers shall be due on 30th day of each month following the end of month in which the Goods/services are purchased or as per contracted trading terms.
 - 4.5 Payment will be made by cash on delivery, or by cheque, or by bank cheque, or by credit card, or by direct credit, or by any other method as agreed to between the Buyer and the Seller.
 - 4.6 The Price shall be increased by the amount of any GST and other taxes and duties which may be applicable, except to the extent that such taxes are expressly included in any quotation given by the Seller.
 - 4.7 The Seller reserves the right to review any pricing and amend as required subject to providing the Buyer 30 days notice in writing of the amendment.
- 5. Delivery Of Goods / Services**
 - 5.1 Delivery of the Goods shall be made to the Buyer's address. The Buyer shall make all arrangements necessary to take delivery of the Goods whenever they are tendered for delivery, or delivery of the Goods shall be made to the Buyer at the Seller's address.
 - 5.2 Delivery of the Goods to a carrier, either named by the Buyer or failing such naming to a carrier at the discretion of the Seller for the purpose of transmission to the Buyer, is deemed to be a delivery of the Goods to the Buyer.
 - 5.3 Where there is no agreement that the Seller shall send the Goods to the Buyer, delivery to a carrier at limited carrier's risk at the expense of the Buyer is deemed to be delivery to the Buyer.
 - 5.4 Goods delivered to site shall be at the Buyer's risk and will be deemed to be delivered upon appearing on a delivery schedule.
 - 5.5 The Buyer shall take delivery of the Goods tendered notwithstanding that the quantity so delivered shall be either greater or less than the quantity purchased provided that:
 - (a) such discrepancy in quantity shall not exceed 5%, and
 - (b) the Price shall be adjusted pro rata to the discrepancy.
 - 5.6 The failure of the Seller to deliver shall not entitle either party to treat this contract as repudiated.
 - 5.7 The Seller shall not be liable for any loss or damage whatever due to failure by the Seller to deliver the Goods (or any of them promptly or at all).
- 6. Risk**
 - 6.1 If the Seller retains property in the Goods nonetheless, all risk for the Goods passes to the Buyer on delivery.
 - 6.2 If any of the Goods are damaged or destroyed prior to property in them passing to the Buyer, the Seller is entitled, without prejudice to any of its other rights or remedies under these Terms and Conditions of Trade (including the right to receive payment of the balance of the Price for the Goods), to receive all insurance proceeds payable for the Goods. This applies whether or not the Price has become payable under the Contract. The production of these terms and conditions by the Seller is sufficient evidence of the Seller's rights to receive the insurance proceeds without the need for any person dealing with the Seller to make further enquiries.
- 7. Buyer's Disclaimer**
 - 7.1 The Buyer hereby disclaims any right to rescind, or cancel the contract or to sue for damages or to claim restitution arising out of any misrepresentation made to him by any servant or agent of the Seller and the Buyer acknowledges that he buys the Goods relying solely upon his own skill and judgement and that the Seller shall not be bound by nor responsible for any term, condition, representation or warranty other than the warranty given by the Manufacturer which warranty shall be personal to the Buyer and shall not be transferable to any subsequent Buyer.
- 8. Defect/Returns**
 - 8.1 The Buyer shall inspect the Goods on delivery and shall within twenty four (24) hours of delivery notify the Seller of any alleged defect, shortage in quantity, damage or failure to comply with the description or quote. The Buyer shall afford the Seller an opportunity to inspect the Goods within a reasonable time following delivery if the Buyer believes the Goods are defective in any way. If the Buyer shall fail to comply with these provisions, the Goods shall be conclusively presumed to be in accordance with the terms and conditions and free from any defect or damage.
 - 8.2 For defective Goods, which the Seller has agreed in writing that the Buyer is entitled to reject, the Seller's liability is limited to either (at the Seller's discretion) replacing the Goods or repairing the Goods provided that:
 - (a) the Buyer has complied with the provisions of clause 8.1;
 - (b) the Goods are returned at the Buyer's cost within fourteen (14) days of the delivery date;
 - (c) the Seller will not be liable for Goods which have not been stored or used in a proper manner;
 - (d) the Goods are returned in the condition in which they were delivered and with all packaging material, brochures and instruction material in as new condition as is reasonable possible in the circumstances.
 - 8.3 The Seller may (in its discretion) accept the Goods for credit but this may incur a handling fee of 10% of the value of the returned Goods plus any freight.
 - 8.4 Goods made to special order, Buyer specification or non-catalogue items are under no circumstances acceptable for credit or return. Cancellation of orders for special or non-catalogue items will definitely not be accepted, once these orders are in production.
- 9. Polyaire Warranties**
 - 9.1 Nothing in this clause 9 affects the Buyer's rights under the Australian Consumer Law. The benefits to the Buyer under the Polyaire Warranty are in addition to the rights and remedies of the Buyer under any Consumer Guarantees.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
 - 9.2 If the Seller is not the actual or the deemed manufacturer of the Goods under the Australian Consumer Law, then the warranty of the actual manufacturer of the Goods is the only warranty given to the Buyer in respect of the Goods and this clause 9 does not apply.
 - 9.3 Subject to clauses 9.1 and 9.2, the Seller warrants that the Goods will be free of manufacturing defects and will perform to the clauses that follow.
 - 9.4 The benefit of the Polyaire Warranty extends only to the owner of the property in which the Goods are installed (Owner) for the duration of the Warranty Period.
 - 9.5 The Polyaire Warranty commences on the date of purchase of the Goods and continues for the benefit of the Owner for the applicable Warranty Period.
 - 9.6 If within the Warranty Period a manufacturing defect is discovered in the Goods or the Goods fail to perform to the Seller's specifications as a result of some defect in material or workmanship in the Goods (Defect) then the Seller will, at its option, repair or replace the Goods at the cost of the Seller (excluding costs of de-installation, re-installation and testing including but not limited to labour and travel costs) or refund the purchase price paid by the Buyer. Goods repaired or replaced under the Polyaire Warranty will be warranted for the remainder of the Warranty Period.
 - 9.7 The Polyaire Warranty will not apply to Goods:
 - 9.7.1 installed, repaired or maintained by any person other than a qualified tradesperson; or
 - 9.7.2 subjected to misuse, neglect, negligence, accidental damage or act of God (including but not limited damage caused by fire, flood, infestation by insects, vermin or rodents); or
 - 9.7.3 operated in any way contrary to any operating or maintenance instructions, quote or order form; or
 - 9.7.4 improperly handled, installed or maintained; or
 - 9.7.5 altered or modified prior to or after installation; or
 - 9.7.6 used after any Defect becomes apparent or would have become apparent to a reasonably prudent operator or user; or
 - 9.7.7 exposed to any operating circumstances that could cause damage (including but not limited damage caused to external surfaces and refrigeration coils caused in a corrosive environment); or
 - 9.7.8 removed and reinstalled at another site; or
 - 9.7.9 fitted with any non genuine spare part; or
 - 9.7.10 hired to any person; or
 - 9.7.11 installed in a mobile application (including but not limited to caravan or boat); or
 - 9.7.12 damaged as a result of faulty or incorrect wiring, incorrect power supply, voltage fluctuations, over voltage transients, electromagnetic interference, or replaced fuses, improper storage; or
 - 9.7.13 in respect of which any serial number of the Seller or the manufacturer is altered or removed.
 - 9.8 The Polyaire Warranty does not apply to:
 - 9.8.1 faulty or defective design of Goods unless the Seller has designed the Goods and the Seller expressly accepts responsibility for such design in writing; or
 - 9.8.2 fair wear and tear of Goods (including but not limited to fair wear and tear of consumables such as batteries, filters, and air purifiers); or
 - 9.8.3 discolouration to any plastic components.
- 9.9 In order to make a claim under the Polyaire Warranty, the Owner must return the Goods to one of the Seller's retail Stores together with proof of purchase.
- 9.10 Locations of the Seller's retail stores can be obtained by:
 - 9.10.1 visiting www.polyaire.com.au; or
 - 9.10.2 writing to the Seller's Head Office at 11-13 White Road Gepps Cross South Australia 5094.
- 9.11 The Seller will examine any returned Goods and if the Seller determines that there is an apparent defect through no fault of the Owner and are otherwise undamaged, the Seller will:
 - 9.11.1 record the Owner's contact details (including postal address, email address and telephone numbers at which the Owner can be contacted during usual business hours);
 - 9.11.2 record details of the apparent defect;
 - 9.11.3 take possession of the returned Goods and determine within a reasonable time of return whether the returned Goods are defective;
 - 9.11.4 notify the Owner within a reasonable time of return whether it accepts or rejects the return of the Goods; and
 - 9.11.5 if the Seller accepts the return of the Goods, repair or replace the Goods or refund the purchase price in accordance with the Polyaire Warranty.
- 9.12 The Seller will not accept any returned Goods which have not been returned strictly in accordance with the Polyaire Warranty.
- 9.13 The Owner will be responsible for all costs of returning Goods to the Seller and for collection or re-delivery of the Goods (whether original or repaired and/or replacement Goods) by the Seller and any other expenses of the Owner in claiming under the Polyaire Warranty.
- 9.14 The Seller will not be responsible for:
 - 9.14.1 any loss or damage to the Goods occurring while the Goods are in transit (either on return to the Seller or upon redelivery to the Owner of the original or repaired and/or replacement Goods); or
 - 9.14.2 any loss or damage caused by any delay assessing the Buyer's claim; or
 - 9.14.3 any loss or damage caused by any delay repairing or replacing any Goods.
- 9.15 The Seller is not liable for any guarantee, warranty or representation as to the quality, performance, and fitness for purpose or otherwise of any Goods unless expressed in writing and signed on behalf of the Company and any such warranty or representation is limited to its express terms.
- 9.16 None of the Implied Terms apply to any Contract except to the extent that they cannot be lawfully excluded.
- 9.17 The Seller's liability for breach of any Contract or for breach of any Implied Terms which by force of law cannot be excluded from applying to any Contract is limited to the option of the Seller to repairing or replacing Goods which have been found defective, or paying the cost of repairing or replacing Goods which have been found defective.
- 9.18 The Seller is not liable in tort for any loss or damage suffered by the Buyer or by any third party.
- 9.19 In no circumstance is the Seller liable to the Buyer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss) arising out of the late delivery of Goods or any breach of the Seller's obligations under any Contract or Implied Terms and the Buyer will keep the Seller fully indemnified against any claim made against the Seller for any Consequential Loss.
- 9.20 In no circumstance is the Seller liable to the Buyer or to any third party for any costs incurred in providing safe access to the Goods.
- 9.21 For the purposes of this clause 9:
 - 9.21.1 Australian Consumer Law means the law as set out in Schedule 2 of the Competition and Consumer Act 2010;
 - 9.21.2 Contract means any contract for the sale and purchase of the Goods evidenced by acceptance of any order from the Buyer by the Seller;
 - 9.21.3 Consumer means a "consumer" as that term is defined in Section 3 of the Australian Consumer Law;
 - 9.21.4 Consumer Contract means a contract for the purchase of Goods by the Buyer as a Consumer;
 - 9.21.5 Consumer Guarantees means the guarantees under the Australian Consumer Law;
 - 9.21.6 Implied Terms means any guarantees, conditions, warranties or other terms implied by any Australian Commonwealth, State or Territory laws (excluding the Australian Consumer Law), or the laws of any other jurisdiction;
 - 9.21.7 Owner has the meaning set out in clause 9.4;
 - 9.21.8 Polyaire Warranty means the warranty in clauses 9.3 to 9.8; and
 - 9.21.9 Warranty Period.
 - (a) in relation to flexible ducting, a period of 10 years for domestic applications and one year for commercial applications;
 - (b) in relation to plastic components, a period of 10 years for domestic applications and one year for commercial applications;
 - (c) in relation to zone motors and controls, a period of 5 years for domestic applications and one year for commercial applications;
 - (d) in relation to residential applications of Derby branded reverse cycle air-conditioning units, a period of 5 years; and
 - (e) in relation to commercial applications of Derby branded reverse cycle air-conditioning units, a period of one year
- 10. Competition and Consumer Act 2010 and Fair Trading Acts**
 - 10.1 Nothing in this agreement is intended to have the effect of contracting out of any applicable provisions of the Commonwealth Competition and Consumer Act 2010 or the Fair Trading Acts in each of the States and Territories of Australia, except to the extent permitted by those Acts where applicable.
- 11. Intellectual Property**
 - 11.1 Where the Seller has designed or drawn Goods for the Buyer, then the copyright in those designs and drawings shall remain vested in the Seller, and shall only be used by the Buyer at the Seller's discretion.
 - 11.2 Conversely, in such a situation, where the Buyer has supplied drawings, the Seller in its sale conditions may look for an indemnity

Terms & Conditions of Trade

- (the specifications and design of the Goods (including the copyright, design right or other intellectual property in them) shall as between the parties be the property of the Seller).
- 11.3 Where any designs or specifications have been supplied by the Buyer for manufacture, by or to the order of the Seller then the Buyer warrants that the use of those designs or specifications for the manufacture, processing, assembly or supply of the Goods shall not infringe the rights of any third party.
- 11.4 The Buyer warrants that all designs or instructions to the Seller will not cause the Seller to infringe any patent, registered design or trademark in the execution of the Buyer's order.
- 12. Default & Consequences Of Default**
- 12.1 Interest on overdue invoices shall accrue from the date when payment becomes due daily until the date of payment at a rate of 2.5% per calendar month and shall accrue at such a rate after as well as before any judgement.
- 12.2 If the Buyer defaults in payment of any invoice when due the Buyer shall indemnify the Seller from and against all the Seller's costs and disbursements on a solicitor and own client basis and in addition all of the Seller's nominees costs of collection. The Buyer's indemnity to the Seller extends to administrative, collection and solicitor fees (on a solicitor and own client basis) that are incurred by the Seller or will be incurred by the Seller in preserving and/or enforcing its rights under the Personal Property Securities Act 2009 ("PPSA").
- 12.3 Without prejudice to any other remedies the Seller may have, if at any time the Buyer is in breach of any obligation (including those relating to payment), the Seller may suspend or terminate the supply of Goods to the Buyer and any of its other obligations under the terms and conditions. The Seller will not be liable to the Buyer for any loss or damage the Buyer suffers because the Seller exercised its rights under this clause.
- 12.4 In the event that:
- (a) any money payable to the Seller becomes overdue, or in the Seller's opinion the Buyer will be unable to meet its payments as they fall due; or
 - (b) the Buyer becomes insolvent, convenes a meeting with its creditors or proposes or enters into an arrangement with creditors, or makes an assignment for the benefit of its creditors; or
 - (c) a receiver, manager, liquidator (provisional or otherwise) or similar person is appointed in respect of the Buyer or any asset of the Buyer; then without prejudice to the Seller's other remedies at law
 - (i) the Seller shall be entitled to cancel all or any part of any order of the Buyer which remains unperformed in addition to and without prejudice to any other remedies; and
 - (ii) all amounts owing to the Seller shall, whether or not due for payment, immediately become payable.
- 13. Title & Personal Property Securities Act 2009 ("PPSA")**
- 13.1 It is the intention of the Seller and agreed by the Buyer that property in the Goods shall not pass until:
- (a) the Buyer has paid all amounts owing for the particular Goods; and
 - (b) the Buyer has met all other obligations due by the Buyer to the Seller in respect of all contracts between the Seller and the Buyer, and that the Goods shall be kept separate until the Seller shall have received payment and all other obligations of the Buyer are met.
- 13.2 Possession of the Goods is transferred to the Buyer by the Seller on the basis that the Seller retains a purchase money security interest (pursuant to the PPSA) in the Goods and its proceeds.
- 13.3 The Buyer undertakes to:
- (a) provide any further documents and/or provide further information, such information to be complete, accurate and up-to-date in all respects which the Seller may reasonably require to register a financing statement or financing statement on the PPSA register;
 - (b) indemnify, and upon demand, reimburse the Seller for all expenses incurred in registering a financing statement or financing change statement on the PPSA register;
 - (c) give the Seller not less than 14 days prior written notice of any proposed change in the Buyer's details, including but not limited to, changes in address, company name and/or contact details.
- 13.4 Unless otherwise agreed to by the Seller in writing, the Buyer, nor the Seller, shall disclose to an interested person information pertaining to the Seller's purchase money security interest.
- 13.5 The Buyer waives its right to receive a verification statement under section 157 of the PPSA.
- 13.6 The Buyer agrees, pursuant to section 115 of the PPSA and to the fullest extent permitted by law, that it shall have no rights to receive:
- (a) a notice of removal of accession;
 - (b) a notice of enforcing decisions in accordance with land law decisions;
 - (c) a notice of disposal of collateral;
 - (d) a statement of account where there is no disposal of collateral;
 - (e) a notice of retention of collateral.
- 13.7 The parties agree that these Terms & Conditions of Trade constitute a security agreement for the purposes of the PPSA.
- 13.8 It is further agreed, without prejudice to the Seller's rights under the PPSA, that:
- (a) until such time as ownership of the Goods shall pass from the Seller to the Buyer the Seller may give notice in writing to the Buyer to return the Goods or any of them to the Seller. Upon such notice the rights of the Buyer to obtain ownership or any other interest in the Goods shall cease;
 - (b) if the Buyer fails to return the Goods to the Seller then the Seller or the Seller's agent may enter upon and into land and premises owned, occupied or used by the Buyer, or any premises as the invitee of the Buyer, where the Goods are situated and take possession of the Goods, without being responsible for any damage thereby caused.
 - (c) The Buyer is only a bailee of the Goods and until such time as the Seller has received payment in full for the Goods then the Buyer shall hold any proceeds from the sale or disposal of the Goods on trust for the Seller.
- (d) The Buyer shall not deal with the money of the Seller in any way which may be adverse to the Seller.
 - (e) Receipt by the Seller of any form of payment other than cash shall not be deemed to be payment until that form of payment has been honoured, cleared or recognised and until then the Seller's ownership of rights in respect of the Goods shall continue.
 - (f) The Buyer shall not charge the Goods in any way nor grant nor otherwise give any interest in the Goods while they remain the property of the Seller.
 - (g) The Seller may require payment of the Price or the balance of the Price due together with any other amounts due from the Buyer to the Seller arising out of these terms and conditions, and the Seller may take any lawful steps to require payment of the amounts due and the Price.
 - (h) The Seller can issue proceedings to recover the Price of the Goods sold notwithstanding that ownership of the Goods may not have passed to the Buyer.
 - (i) Until such time the Buyer has the Seller's authority to convert the goods into other products and if the goods are so converted, the parties agree that the Seller will be the owner of the end products.
- 14. Security And Charge**
- 14.1 Notwithstanding anything to the contrary contained herein or any other rights which the Seller may have howsoever:
- (a) Where the Buyer and/or the Guarantor (if any) is the owner of land, realty or any other asset capable of being charged, both the Buyer and/or the Guarantor agree to mortgage and/or charge all of their joint and/or several interest in the said land, realty or any other asset to the Seller or the Seller's nominee to secure all amounts and other monetary obligations payable under the terms and conditions. The Buyer and/or the Guarantor acknowledge and agree that the Seller (or the Seller's nominee) shall be entitled to lodge where appropriate a caveat, which caveat shall be released once all payments and other monetary obligations payable hereunder have been met.
 - (b) Should the Seller elect to proceed in any manner in accordance with this clause and/or its sub-clauses, the Buyer and/or Guarantor shall indemnify the seller from and against all the Seller's costs and disbursements including legal costs on a solicitor and own client basis.
 - (c) To give effect to the provisions of clause [14.1 (a) and (b)] inclusive hereof the Buyer and/or the Guarantor (if any) do hereby irrevocably nominate constitute and appoint the Seller or the Seller's nominee as the Buyer's and/or Guarantor's true and lawful attorney to execute mortgages and charges (whether registrable or not) including such other terms and conditions as the Seller and/or the Seller's nominee shall think fit in his/her/its/their absolute discretion against the joint and/or several interest of the Buyer and/or the Guarantor in any land, realty or asset in favour of the Seller and in the Buyer's and/or Guarantor's name as may be necessary to secure the said Buyer's and/or Guarantor's obligations and indebtedness to the Seller and further to do and perform all necessary and other acts including instituting any necessary legal proceedings, and further to execute all or any documents in the Seller's absolute discretion which may be necessary or advantageous to give effect to the provisions of this clause.
- 15. Cancellation**
- The Seller may cancel these terms and conditions or cancel delivery of Goods at any time before the Goods are delivered by giving written notice. The Seller shall not be liable for any loss or damage whatever arising from such cancellation.
- 16. Privacy Amendment (Enhancing Privacy Protection) Act 2012, Polyaire Pty Ltd, A.C.N. 007 673 690**
- We will comply with the Privacy Amendment (Enhancing Privacy Protection) Act 2012 which amends the Privacy Act 1988 (Cth) and which came into effect on 12th March 2014 including Division 3 of Part IIIA and the Australian Privacy Principles contained in the Act as well as the Credit Reporting Privacy Code (CR Code) and are committed to protecting personal information (including credit information and credit eligibility information) we may hold at any time in respect of any individual, in accordance with those requirements. Personal information includes things like your name, address, birth date. Credit information includes credit applications you've made and repayment history.
- Changes to the Privacy Act 1988 mean:
- we follow the Australian Privacy Principles (APPs) and have updated our privacy policy
 - we have changed the way we must handle your credit-related information under a new system we call "Comprehensive Credit Reporting"
 - the Privacy Commissioner will have more power to investigate, fix complaints and make sure we follow these laws.
- Changes to the Privacy Act means we've updated our Privacy Policy which includes our new Credit Reporting Policy. The privacy policy tells you:
- how we collect, use, disclose and store your personal and credit information
 - how you can contact us if you want to access or correct the information we hold about you.
 - A copy of our credit policy is located on our website www.polyaire.com.au
- Privacy Act 1988**
- 16.1 The Buyer and/or the Guarantor/s agree for the Seller to obtain from a credit-reporting agency a credit report containing personal credit information about the Buyer and Guarantor/s in relation to credit provided by the Seller.
- 16.2 The Buyer and/or the Guarantor/s agree that the Seller may exchange information about Buyer and Guarantor/s with those credit providers named in the Application for Credit account or named in a consumer credit report issued by a reporting agency for the following purposes:
- (a) To assess an application by Buyer;
 - (b) To notify other credit providers of a default by the Buyer;
 - (c) To exchange information with other credit providers as to the status of this credit account, where the Buyer is in default with other credit providers; and
 - (d) To assess the credit worthiness of Buyer and/or Guarantor/s.
- 16.3 The Buyer consents to the Seller being given a consumer credit report to collect overdue payment on commercial credit (Section 18K(1)(h) Privacy Act 1988).
- 16.4 The Buyer agrees that Personal Data provided may be used and retained by the Seller for the following purposes and for other purposes as shall be agreed between the Buyer and Seller or required by law from time to time:
- (a) provision of Services & Goods;
 - (b) marketing of Services and or Goods by the Seller, its agents or distributors in relation to the Services and Goods;
 - (c) analysing, verifying and/or checking the Buyer's credit, payment and/or status in relation to provision of Services/ Goods;
 - (d) processing of any payment instructions, direct debit facilities and/or credit facilities requested by Buyer; and
 - (e) enabling the daily operation of Buyer's account and/or the collection of amounts outstanding in the Buyer's account in relation to the Services and Goods.
- 16.5 The Seller may give, information about the Buyer to a credit reporting agency for the following purposes:
- (a) to obtain a consumer credit report about the Buyer; and or
 - (b) allow the credit reporting agency to create or maintain a credit information file containing information about the Buyer.
- 17. Unpaid Seller's Rights To Dispose Of Goods**
- 17.1 In the event that:
- (a) the Seller retains possession or control of the Goods; and
 - (b) payment of the Price is due to the Seller; and
 - (c) the Seller has made demand in writing of the Buyer for payment of the Price in terms of this contract; and
 - (d) the Seller has not received the Price of the Goods, then, whether the property in the Goods has passed to the Buyer or has remained with the Seller, the Seller may dispose of the Goods and may claim from the Buyer the loss to the Seller on such disposal.
- 18. Lien**
- 18.1 Where the Seller has not received or been tendered the whole of the price, or the payment has been dishonoured, the Seller shall have:
- (a) a lien on the goods;
 - (b) the right to retain them for the price while the Seller is in possession of them;
 - (c) a right of stopping the goods in transit, whether or not delivery has been made or ownership has passed; and
 - (d) a right of resale.
- (e) the foregoing right of disposal, provided that the lien of the Seller shall continue despite the commencement of proceedings or judgement for the price having been obtained.
- 19. Display Stands**
- 19.1 Display stands and associated equipment ("Equipment") shall at all times remain the property of the Seller and are returnable on demand by the Seller. In the event that the Equipment are not returned to the Seller in the condition in which they were delivered the Seller retains the right to charge the Price of repair or replacement of the Equipment.
- 19.2 The Buyer acknowledges that the Equipment is to only be utilised for the display of Goods provided by the Seller or any of the Seller's associated companies.
- 19.3 The Buyer shall;
- (a) keep the Equipment in their own possession and control and shall not assign the benefit of the Equipment nor be entitled to lien over the Equipment and the Buyer accepts full responsibility for the safekeeping of the Equipment and indemnifies the Seller for all loss theft or damage to the Equipment howsoever caused and without limiting the generality of the foregoing whether or not such loss theft or damage is attributable to any negligence failure or omission of the Buyer;
 - (b) not alter or make any additions to the Equipment including but without limitation altering, make any additions to, defacing or erasing any identifying mark, plate or number on or in the Equipment or in any other manner interfere with the Equipment;
 - (c) comply with all occupational health and safety laws relating to the Equipment and its operation;
- 19.4 The Buyer acknowledges and agrees that it loans the Plant at its own risk and the Buyer is responsible for theft or damage to the Plant whilst on loan.
- 20. General**
- 20.1 If any provision of these terms and conditions shall be invalid, void or illegal or unenforceable the validity existence, legality and enforceability of the remaining provisions shall not be affected, prejudiced or impaired.
- 20.2 All Goods supplied by the Seller are subject to the laws of South Australia and the Seller takes no responsibility for changes in the law which affect the Goods supplied.
- 20.3 The Seller shall be under no liability whatever to the Buyer for any indirect loss and/or expense (including loss of profit) suffered by the Buyer arising out of a breach by the Seller of these terms and conditions.
- 20.4 In the event of any breach of this contract by the Seller the remedies of the Buyer shall be limited to damages. Under no circumstances shall the liability of the Seller exceed the Price of the Services.
- 20.5 The Buyer shall not set off against the Price amounts due from the Seller.
- 20.6 The Seller may license or sub-contract all or any part of its rights and obligations without the Buyer's consent.
- 20.7 The Seller reserves the right to review these terms and conditions at any time and from time to time. If, following any such review, there is to be any change in such terms and conditions, that change will take effect from the date on which the seller notifies the Buyer of such change.
- 20.8 Neither party shall be liable for any default due to any act of God, war, terrorism, strike, lock out, industrial action, fire, flood, drought, storm or other event beyond the reasonable control of either party.



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Remote control from your smart device, or a crystal clear HD touch screen display driven by climate control sensors to ensure everyone's comfort.



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AirTouch 3 was created to allow you to control up to 16 zones in your home which allows for maximum efficiency and cost savings as you will only need to heat or cool the rooms that you are using.



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For personalised control of your air conditioning from anywhere. You can choose to receive temperature alerts away from home, and even activate a parental lock.



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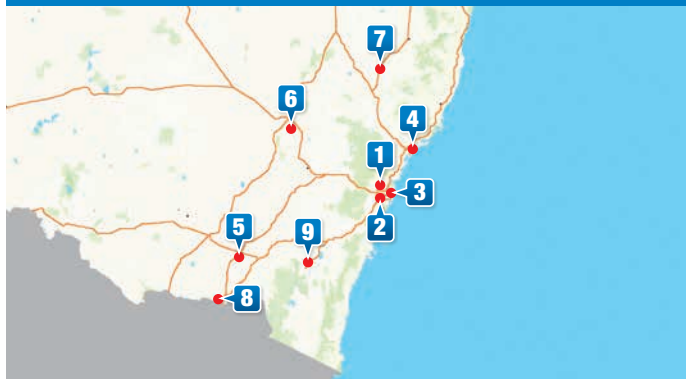
airtouch
airtouch.net.au



Polyaire Locations

NEW SOUTH WALES/ACT

sales.nsw@polyaire.com.au



1. SEVEN HILLS

Unit 2/167 Prospect Hwy
Seven Hills NSW 2147
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Fax: (02) 9620 8088

2. PADSTOW

50 Gibson Avenue
Padstow NSW 2211
Ph: (02) 9773 4186
Fax: (02) 9773 7084

3. ALEXANDRIA

Unit 10/33 Maddox Street
Alexandria NSW 2015
Ph: (02) 9557 6948
Fax: (02) 9557 6954

4. CARDIFF

70 Mitchell Road
Cardiff NSW 2285
Ph: (02) 4954 6677
Fax: (02) 4954 6033

5. WAGGA

22 Schiller Street
Wagga NSW 2650
Ph: (02) 6921 7606
Fax: (02) 6921 1987

6. DUBBO

4 Young St
Dubbo NSW 2830
Ph: (02) 6884 4328
Fax: (02) 6884 4362

7. TAMWORTH

Unit 2/19-20 Goonan St
Tamworth NSW 2340
Ph: (02) 6765 3881
Fax: (02) 6762 3705

8. ALBURY

107 North Street
Albury NSW 2640
Ph: (02) 6021 7206
Fax: (02) 6041 2090

9. CANBERRA

Unit 6, 17 Tennant Street
Fyshwick ACT 2609
Ph: (02) 6126 3600
Fax: (02) 6228 1338

QUEENSLAND

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1. HENDRA

51 Navigator Place
Hendra QLD 4011
Ph: (07) 3866 8700
Fax: (07) 3256 8178

3. MOLENDINAR

2/3 Anisar Court
Molendinar QLD 4214
Ph: (07) 5656 1900
Fax: (07) 5597 5985

5. WARANA

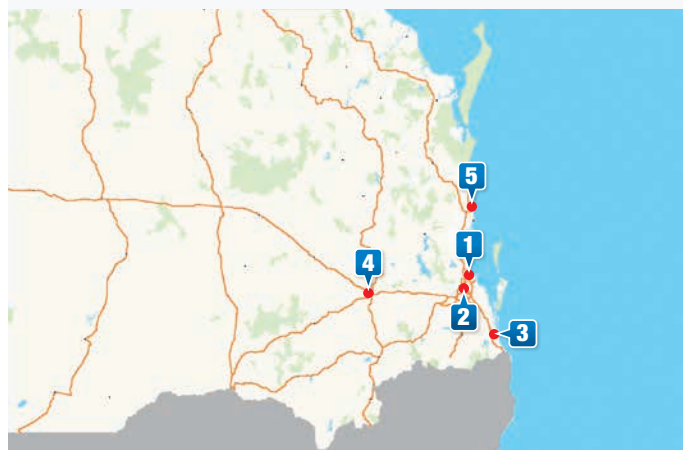
16 Textile Avenue
Warana QLD 4575
Ph: (07) 5493 9736
Fax: (07) 5493 9693

2. ACACIA RIDGE

60 Dulacca Street
Acacia Ridge QLD 4110
Ph: (07) 3273 8043
Fax: (07) 3273 6104

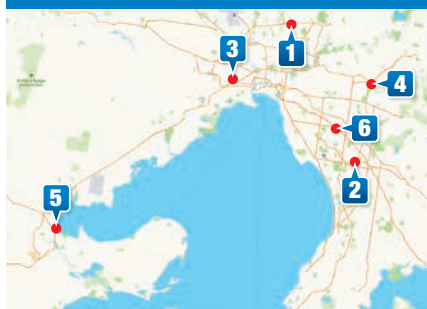
4. TOOWOOMBA

Unit 2, 5-7 Spalding Street
Harristown QLD 4350
Ph: (07) 4635 1122
Fax: (07) 4613 4100



VICTORIA

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2. DANDENONG

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Ph: (03) 9793 1611
Fax: (03) 9792 0501

3. SUNSHINE WEST

1 Grace Court
Sunshine West VIC 3020
Ph: (03) 9311 5679
Fax: (03) 9311 9571

4. RINGWOOD

6/100 New Street
Ringwood VIC 3134
Ph: (03) 9876 0633
Fax: (03) 9879 2233

5. GEELONG

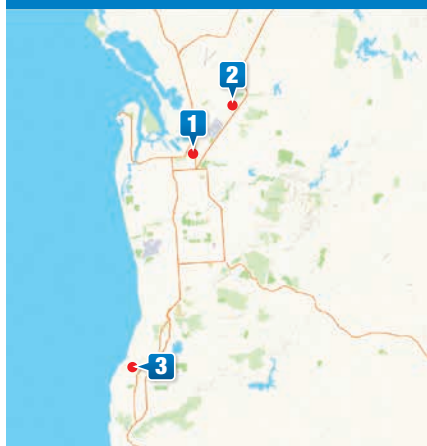
106 Barwon Terrace
South Geelong VIC 3220
Ph: (03) 5221 7644
Fax: (03) 5221 8299

6. CLAYTON

1507 Centre Road
Clayton VIC 3168
Ph: (03) 9558 8029
Fax: (03) 9548 7159

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1. GEPPS CROSS

11-13 White Road
Gepps Cross SA 5094
Ph: (08) 8349 5959
Fax: (08) 8349 6659

2. BRAHMA LODGE

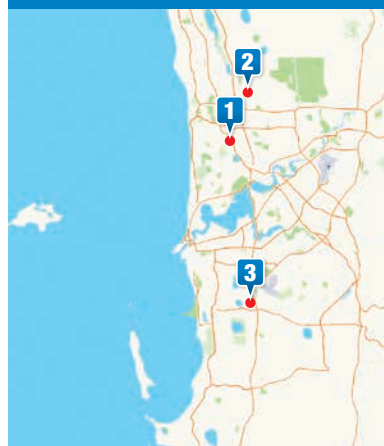
1590 Main North Road
Brahma Lodge SA 5109
Ph: (08) 8182 3347
Fax: (08) 8182 3348

3. LONSDALE

15 Dorset Street
Lonsdale SA 5160
Ph: (08) 8326 7063
Fax: (08) 8186 1069

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Fax: (08) 9240 1484

2. WANGARA

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Wangara WA 6065
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Fax: (08) 9302 5420

3. COCKBURN CENTRAL

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