

idealair
group

Comprehensive Apartment Ventilation Solutions

idealairgroup.com.au

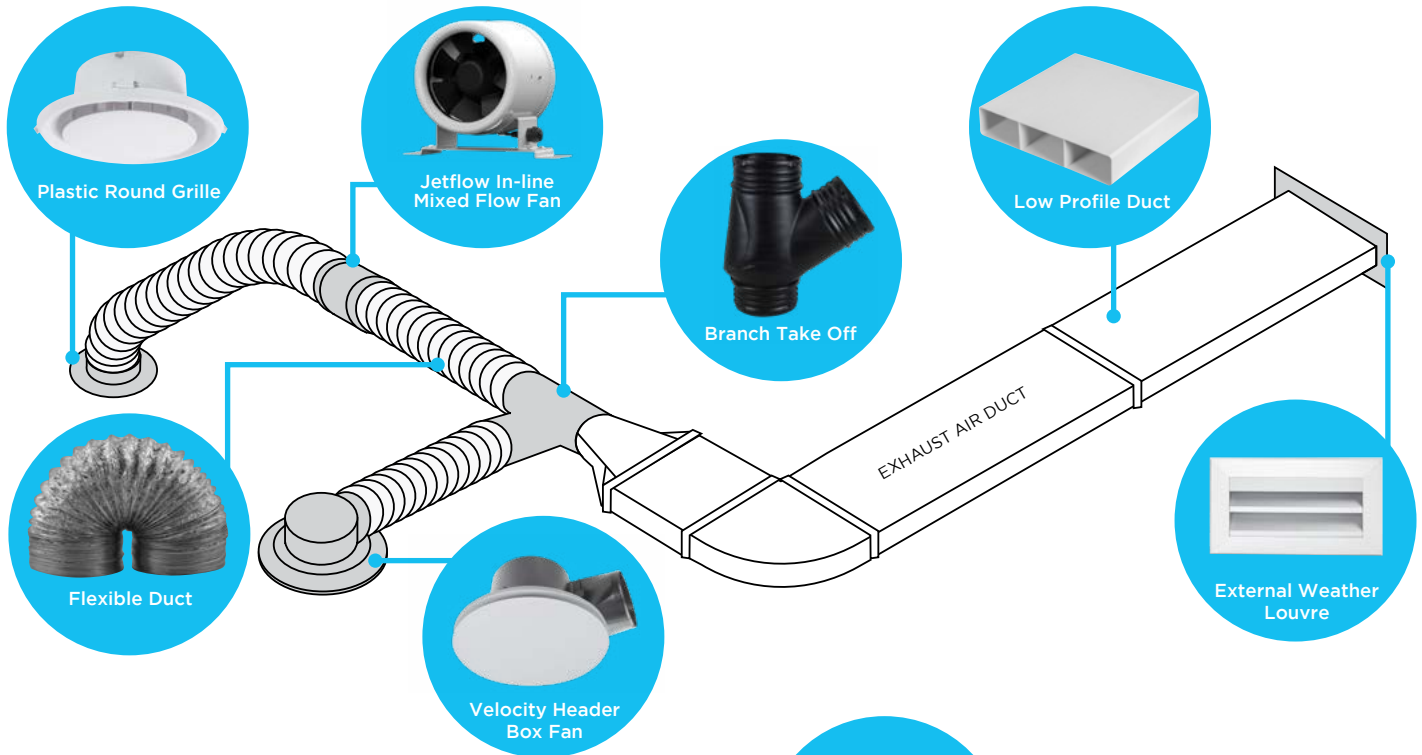


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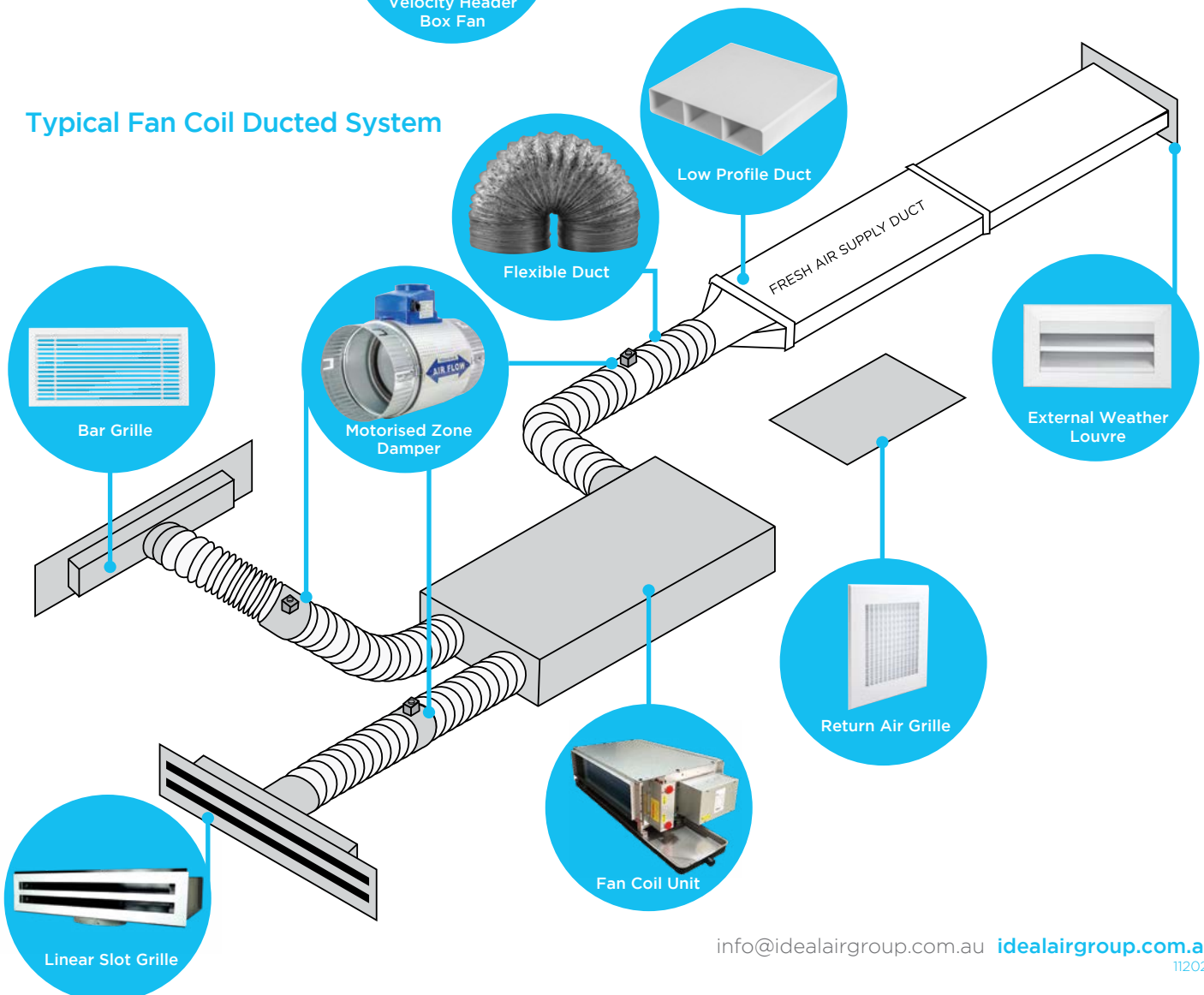
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TYPICAL APARTMENT VENTILATION LAYOUTS

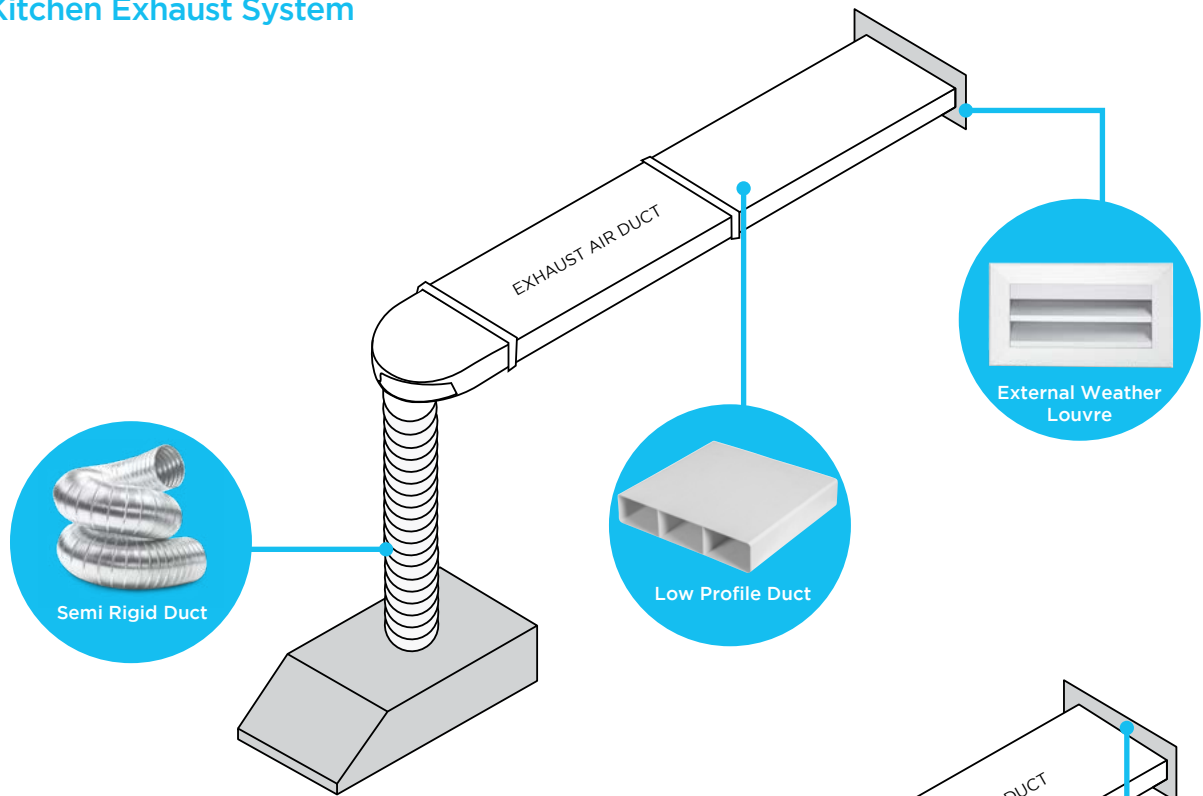
Typical Bathroom and Toilet Exhaust System



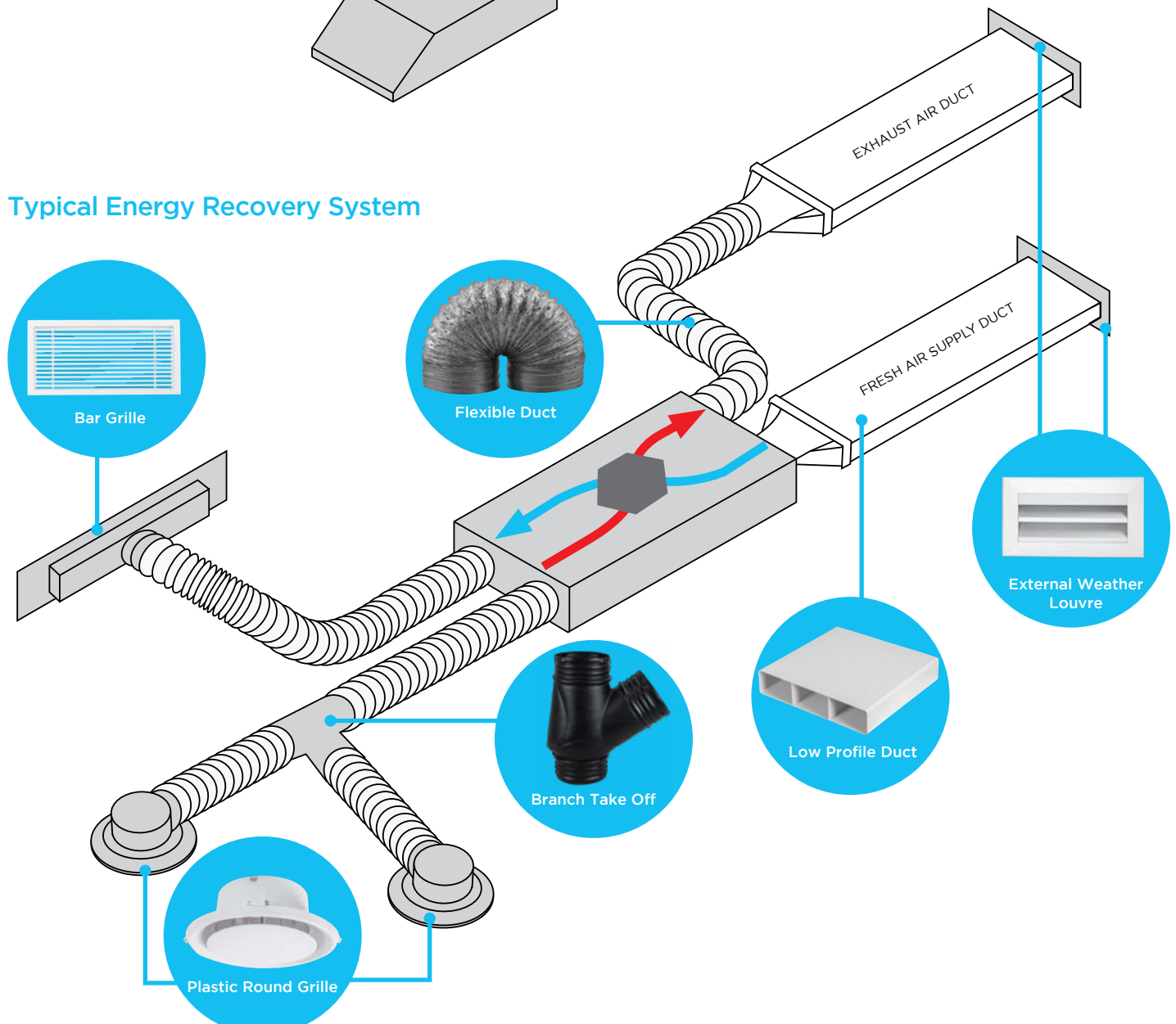
Typical Fan Coil Ducted System



Typical Kitchen Exhaust System



Typical Energy Recovery System





LOW PROFILE DUCT SYSTEM

200, 300 & 350 Series

A low profile duct system for restricted ceiling spaces

The Idealair Group Low Profile Duct System has been specifically designed to meet the needs of modern day applications. The HAD series duct system has been developed to offer a solution to engineers who face limited space in ceiling voids and cavities, which is often the norm in modern day apartments, hotels and domestic dwellings.

As the Low Profile Duct System is available in multiple profiles, engineers will be able to select the right system to meet the airflow requirements and increase efficiency. This is a critical factor that often results in reduced fan size and less energy consumption.

The installation time for this range has been greatly reduced by using matched fittings and ancillary products that are available in the Idealair Group range. This lightweight alternative to sheet metal is hygienic and due to the self-extinguishing PVC construction, will not suffer from corrosion.

As with all Idealair Group products, the Low Profile Duct System has been rigorously tested by Australia's leading institutions to ensure its reliability and quality. It is fire rated to AS/NZS 1530.3 to comply with building standards and is manufactured from 100% recycled uPVC to meet green building requirements. The specifier and contractor can be assured the product they install will deliver the performance required and meet the requirements of the system design.

Features

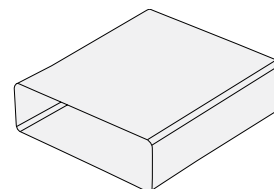
- Available in 204mm, 300mm and 350mm duct sizes
- Hygienic and corrosion free
- Lightweight and easy to install
- Low velocity
- Self extinguishing
- Can be cut down on site using non-specialist equipment
- Low air leakage
- Thoroughly tested by Australian experts
- Wide range of fittings, making it very versatile
- Wide range of additional ancillaries available

Low Profile Duct & Duct Fittings

Low Profile Duct

Product Code	System	Size
HAD201	200 series	204 x 60 - 2000
HAD301	300 series	300 x 60 - 2000
HAD351	350 series	350 x 75 - 2000

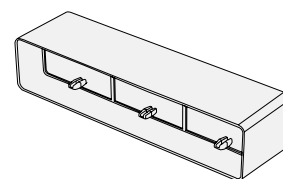
Dimensions in millimetres



Connector

Product Code	System	Size
HAD202	200 series	204 x 60 - 123
HAD302	300 series	300 x 60 - 80
HAD352	350 series	350 x 75 - 80

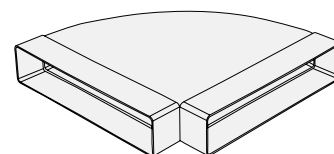
Dimensions in millimetres



Horizontal 90° Bend

Product Code	System	Size
HAD203	200 series	204 x 60
HAD312	300 series	300 x 60
HAD3510	350 series	350 x 75
HAD3512	350 series	350 x 75

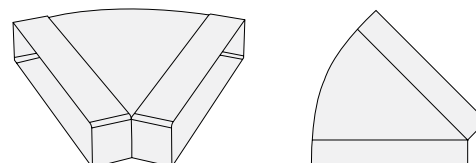
Dimensions in millimetres



Horizontal 45° Bend

Product Code	System	Size
HAD210	200 series	204 x 60
HAD304	300 series	300 x 60
HAD354	350 series	350 x 75

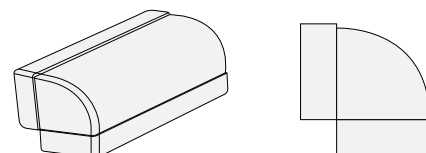
Dimensions in millimetres



Vertical 90° Bend

Product Code	System	Size
HAD315	300 series	300 x 60
HAD3516	350 series	350 x 75

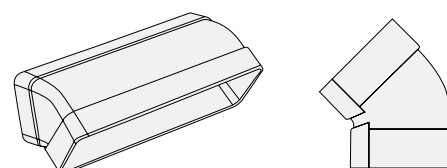
Dimensions in millimetres



Vertical 45° Bend

Product Code	System	Size
HAD213	200 series	204 x 60
HAD309	300 series	300 x 60
HAD359	350 series	350 x 75

Dimensions in millimetres

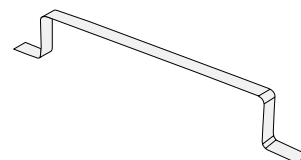


Low Profile Duct & Duct Fittings (cont.)

Metal Fix Clip

Product Code	System	Size
HAD209	200 series	204 x 60 - 290
HAD308	300 series	300 x 60 - 380
HAD358	350 series	350 x 75 - 425

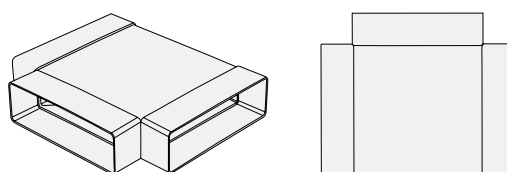
Dimensions in millimetres



Horizontal T Piece

Product Code	System	Size
HAD205	200 series	204 x 60 : 204 x 60
HAD303	300 series	300 x 60 : 300 x 60
HAD353	350 series	350 x 75 : 350 x 75

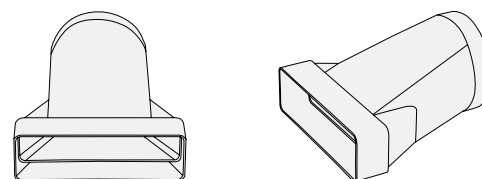
Dimensions in millimetres



Round to Rectangular Reducer

Product Code	System	Size
HAD207	200 series	204 x 60 : Ø 125
HAD307	300 series	300 x 60 : Ø 150
HAD319	300 series	300 x 60: Ø 200
HAD357	350 series	350 x 75 : Ø 150
HAD356	350 series	350 x 75 : Ø 200

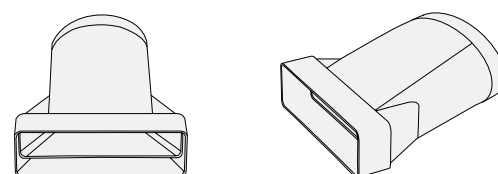
Dimensions in millimetres



Oval to Rectangular Reducer

Product Code	System	Size
HAD355	350 series	350 x 75 : Ø 200 OVAL

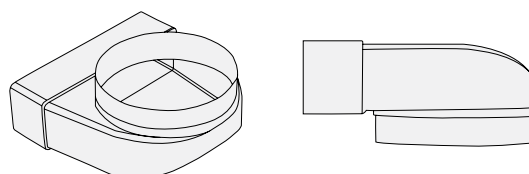
Dimensions in millimetres



90° Bend Spigot

Product Code	System	Size
HAD204	200 series	204 x 60 : Ø 150
HAD317	300 series	300 x 60 X Ø 150
HAD3518	350 series	350 x 75 : Ø 150

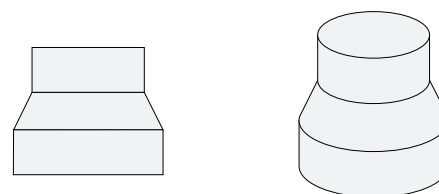
Dimensions in millimetres



Circular Reducer

Product Code	System	Size
HAD208	200 series	Ø 100 : Ø 150
HAD215	200 series	Ø 125 : Ø 150
HAD902	200 series	Ø 150 : Ø 200
HAD3522	350 series	Ø 125 : Ø 100

Dimensions in millimetres



Idealair Low Profile Duct Installation Tips for Residential Ventilation

Ductwork Installation: Install the Idealair Group Low Profile Duct System using the matching joiners, bends, support clips, and end connectors. Ensure all components comply with AS 1530.3 (1999) and AS 4254 (2002) standards. When fitting the ductwork within ceiling spaces, minimise the length of aluminium flexible duct to help maintain the specified pressure and airflow.

Kitchen Exhaust Connection: Connect the kitchen exhaust to the Low Profile Duct System, either directly or via Idealair Group semi-rigid duct, and then to the range hood. Keep this system separate from toilet and laundry ventilation, connecting it to external weatherproof louvres.

Toilet and Laundry Exhaust: Connect the ductwork from the toilet and laundry fans to external weatherproof louvres.

Fan Operation: Install separate fan switches near light switches for laundry and toilet fans. Kitchen booster fans for the range hood should have switches installed adjacent to the range hood.

Non-Return Damper: Ensure all exhaust fans are equipped with a non-return damper before connecting them to the Low Profile Duct System, in accordance with building standards.

Navigating Structural Elements: When ductwork passes under beams, use Idealair Group Low Profile 90-degree or 45-degree vertical bends to maintain low airflow resistance and ensure the specified air delivery.

Joint Sealing: Use silicone or another suitable adhesive to seal joints in the plastic ductwork. Install according to the manufacturer's recommendations, using moulded clips. Avoid using self-tapping screws for joining the ducts.

Proper Support for Plastic Piping Systems

Allow for Expansion & Contraction: Ensure the system can accommodate movement due to thermal expansion and contraction.

Use Appropriate Hangers: Install hangers specifically designed for plastic piping.

Follow Support Spacing Guidelines: Adhere to the recommended hanger support spacing to prevent sagging or damage.

Protect from Damage: Shield the piping from potential harm caused by nails, screws, and abrasive surfaces.



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A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : Idealair Group (Pty) Ltd
Unit 1, Building 1, Sydney Corporate Park
85 O'Riordan Street,
ALEXANDRIA NSW 2015

Test Number : 19-004816
Issue Date : 22/08/2019
Print Date : 22/08/2019

Sample Description Clients Ref : "Hydor Flat Duct"
PVC Duct with Flame Retardant
Colour : White
End Use : Ducting
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 1450g/m2
Nominal Thickness : 2mm

AS/NZS 1530.3-1999

Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested:	Face	
Date tested:	22/08/2019	
	Standard Error	Mean
Ignition time	Nil	Nil min
Flame propagation time	Nil	Nil sec
Heat release integral	Nil	Nil kJ/m²
Smoke release, log d	0.0474	-1.2039
Optical density, d		0.0643 / metre
Number of specimens ignited:		0
Number of specimens tested:		6
Regulatory Indices:		
Ignitability Index		0 Range 0-20
Spread of Flame Index		0 Range 0-10
Heat Evolved Index		0 Range 0-10
Smoke Developed Index		3 Range 0-10

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APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc (Hons)
MANAGING DIRECTOR

AWTA PRODUCT TESTING

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Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
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ALEXANDRIA NSW 2015

Test Number : 19-004816
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These results only apply to the specimen mounted, as described in this report. The result of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions and the assembly clamped along all sides.

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Accredited for compliance with ISO/IEC 17025 - Testing
- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR



IN-LINE MIXED FLOW FANS

Excellent pressure development characteristics, designed specifically for use with rigid or flexible ductwork for a wide variety of residential and commercial applications.

Quick Facts

- 2 standard sizes from 150mm to 200mm
- Air volume flow rates up to 258 l/s
- Static pressures up to 236 Pa
- Suitable for operating temperatures up to +60°C
- Available with adjustable timer (2-30 minutes)

Casing

The all plastic casing provides a long lasting, robust and non-corrosive construction. The units have been constructed from shockproof, heat resistant white plastic, with both motor and impeller mounted within the length of the unit casing. All units are IPX4 protection and are splash proof as required by current regulations.

Impeller

Mixed flow impellers shall be provided with fixed blade angles to meet the required duty. The impeller construction shall comprise of white plastic. Motors and impellers are balanced to ISO 14694 Grade G6.3.

Motors

Motors are double insulated with in-built thermal overload protection, with sealed for life bearings, suitable for operating temperatures up to +60°C. Motors are to be wired to a terminal box mounted on the outside of the unit casing.

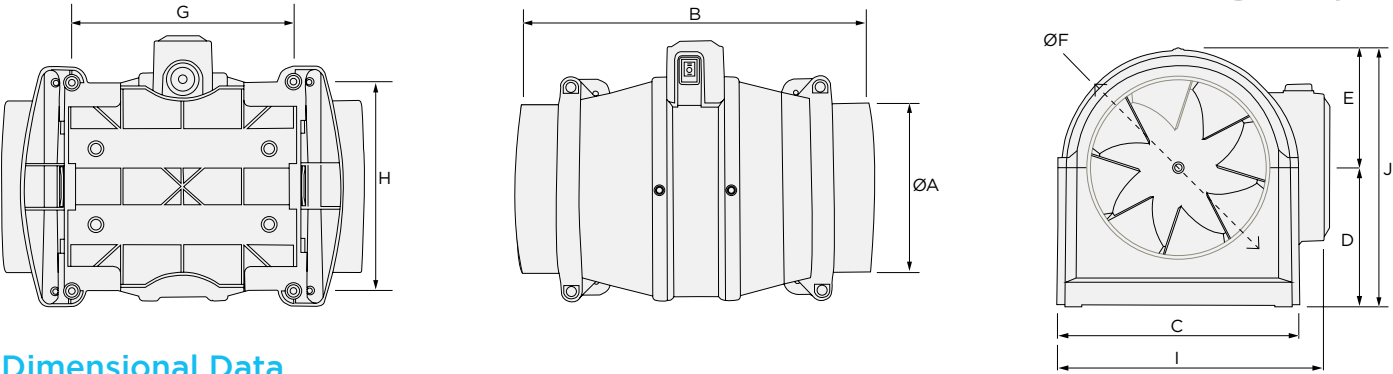
Quality Management

Units are designed and manufactured with procedures as defined in BS EN ISO 9001:2008. All IMF units are to be tested to ISO 5801:2007 (airside performance) and BS 848 Part 2:1985 (sound performance).

Typical Applications

- Shower Rooms
- Bathrooms
- Kitchens
- Utility Rooms
- Residential and Commercial

IN-LINE MIXED FLOW FANS

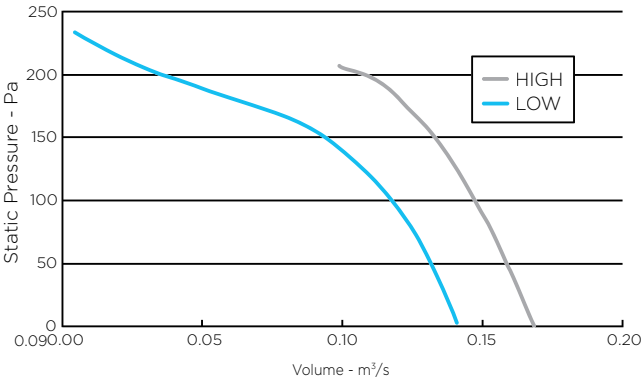


Dimensional Data

ITEM CODE	DIMENSIONS (mm)								WEIGHT (kg)
	A	B	C	D	E	F	G	H	
IMF 150	147	300	195	112	127	194	182	170	3
IMF 200	196	314	254	126	145	220	236	120	4

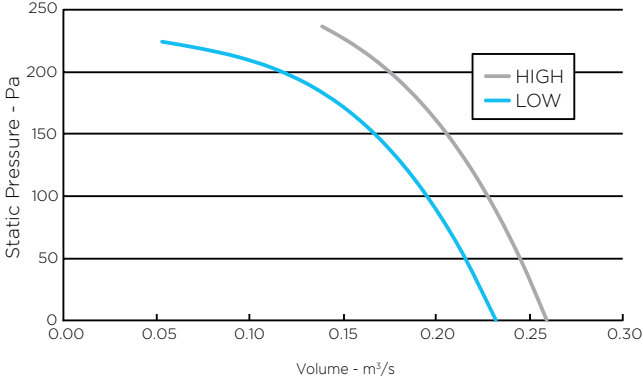
Performance Data

IMF150



IMF150

IMF200



IMF200



JETFLOW IN-LINE EC MIXED FLOW FAN

The Jetflow in-line mixed flow fan includes an energy efficient EC motor for low power consumption. It features a steel casing and a 3 metre detachable lead for connection to a remote potentiometer.

Quick Facts

- 7 standard sizes from 100mm to 355mm
- Air volume flow rates up to 1.240 m³/s
- Static pressures up to 548 Pa
- Suitable for operating temperatures up to +60°C
- Light weight galvanised sheet steel casing
- Comes with sturdy mounting foot
- Comes with energy efficient EC motor

Construction

Casing manufactured from aluminium or cold rolled steel sheet, dependent on size.

Motor

Brushless EC motors are fitted as standard. The IPX4 motor contains sealed for life heavy duty NWB bearings. All motors are suitable for use in ambient air conditions up to +60°C.

Impeller

A high efficiency jet design double mixed flow impeller integrated and directly driven by an EC motor.

Electrical Connection

Electrical connection via 1.5 metre mains lead with 3-pin plug.

Control

Supplied suitable for fixed speed operation. A detachable 3 metre lead with 3.5mm jack connection to the unit is supplied for connection to a remote potentiometer, 0-10VDC or PWM Circuit.

Quality Management

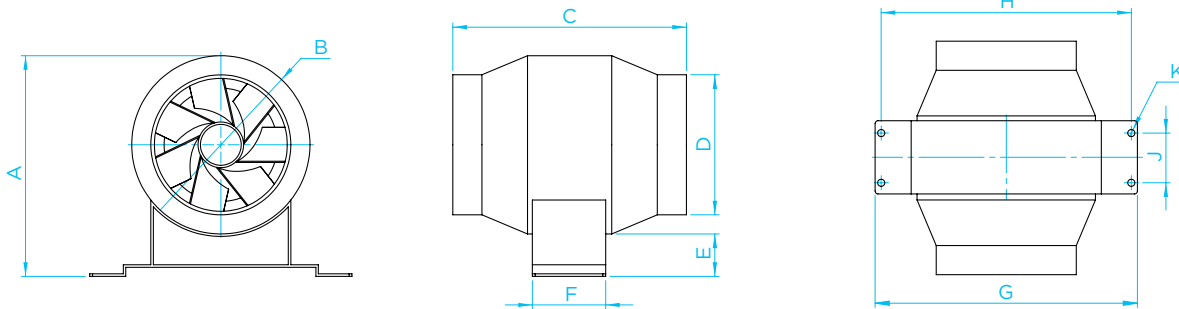
Units are designed and manufactured with procedures as defined in BS EN ISO 9001.

Typical Applications

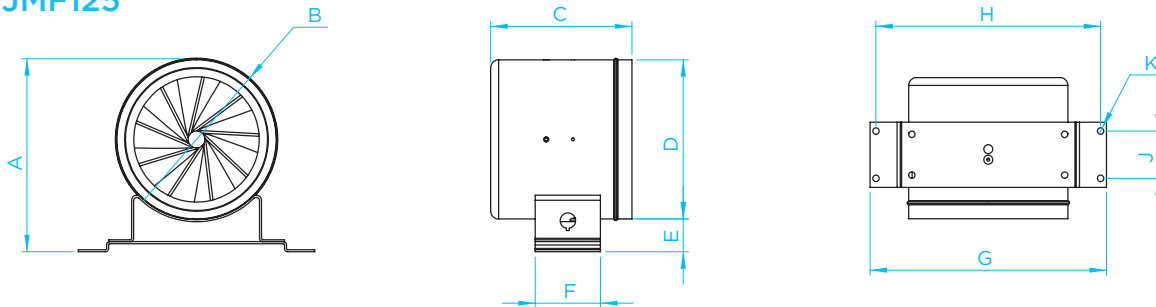
- Shower Rooms
- Bathrooms
- Kitchens
- Laundries
- Utility Rooms
- Residential and Commercial

SJMF100

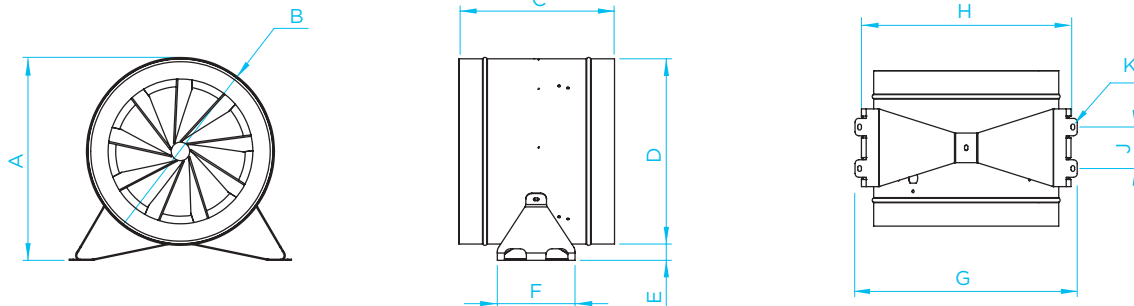
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SJMF125



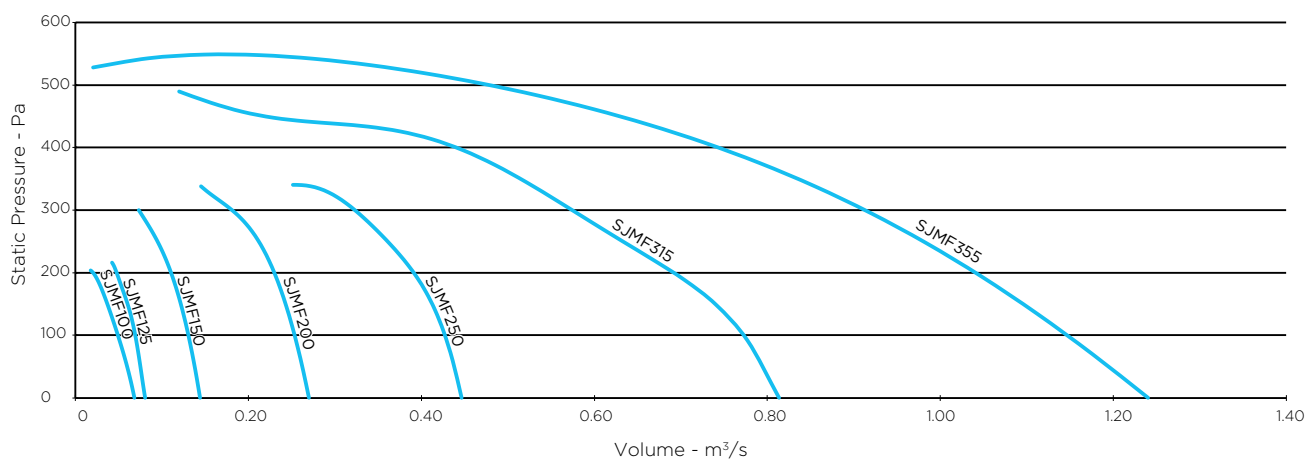
SJMF150-SJMF355



Dimensional Data

Product Code	A	B	C	D	E	F	G	H	J	K	Weight kg
SJMF100	150	125	159	98	25	51	184	175	37	5	1.1
SJMF125	151	126	110	124	26	51	184	175	37	5	1.1
SJMF150	173	153	165	150	21	80	187	175	37	5 x 8 SLOT	1.6
SJMF200	223	203	220	200	22	105	221	210	39	5 x 8 SLOT	2.6
SJMF250	274	254	210	250	22	105	300	288	26	5 x 8 SLOT	3.7
SJMF315	356	317	290	313	39	164	360	336	68	9 x 14 SLOT	8.5
SJMF355	401	358	330	353	45	184	405	380	77	9 x 14 SLOT	12.0

Performance Data





JETFLOW SILENT IN-LINE MIXED FLOW EC FAN

The Jetflow Silent in-line mixed flow fan includes an energy efficient EC motor for low power consumption. It features a steel casing and a 3 metre detachable lead for connection to a remote potentiometer.

Quick Facts

- 4 standard sizes from 150mm to 315mm
- Total air volume flow rates up to 0.793 m³/s
- Static pressures up to 434 Pa
- Suitable for operating temperatures up to +60°C
- Acoustic design for low noise levels
- Comes with energy efficient EC motor

Acoustic Enclosure

For reduced noise levels.

Construction

Casing manufactured from aluminium or cold rolled steel sheet, dependent on size.

Motor

Brushless EC motors are fitted as standard. The IPX4 motor contains sealed for life heavy duty NWB bearings. All motors are suitable for use in ambient air conditions up to +60°C.

Impeller

A high efficiency jet design double mixed flow impeller integrated and directly driven by an EC motor.

Electrical Connection

Electrical connection via 1.5 metre mains lead with 3-pin plug.

Control

Supplied suitable for fixed speed operation. A detachable 3 metre lead with 3.5mm jack connection to the unit is supplied for connection to a remote potentiometer, 0-10VDC or PWM Circuit.

Quality Management

Units are designed and manufactured with procedures as defined in BS EN ISO 9001.

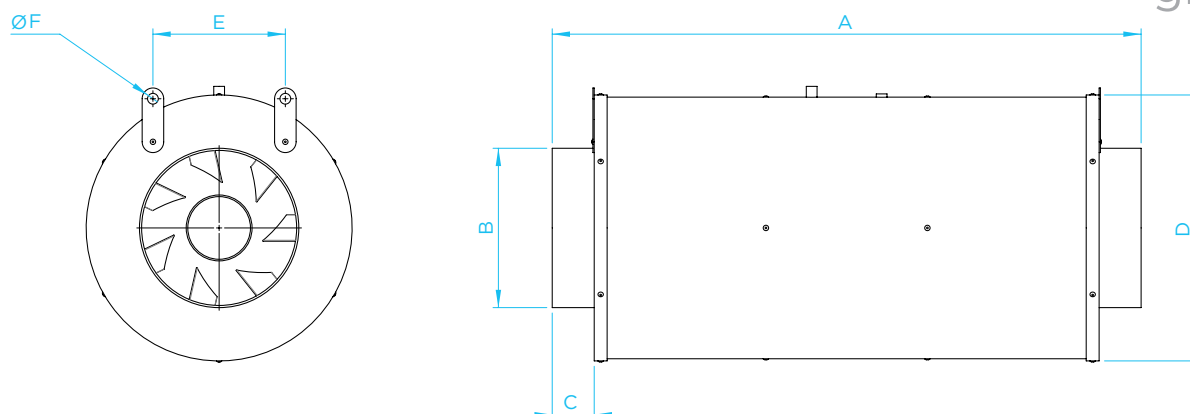
Typical Applications

- Shower Rooms
- Bathrooms
- Kitchens
- Laundries
- Utility Rooms
- Residential and Commercial

In-built Vibration Isolation

In-built vibration isolation eliminating the need for external vibration isolators.

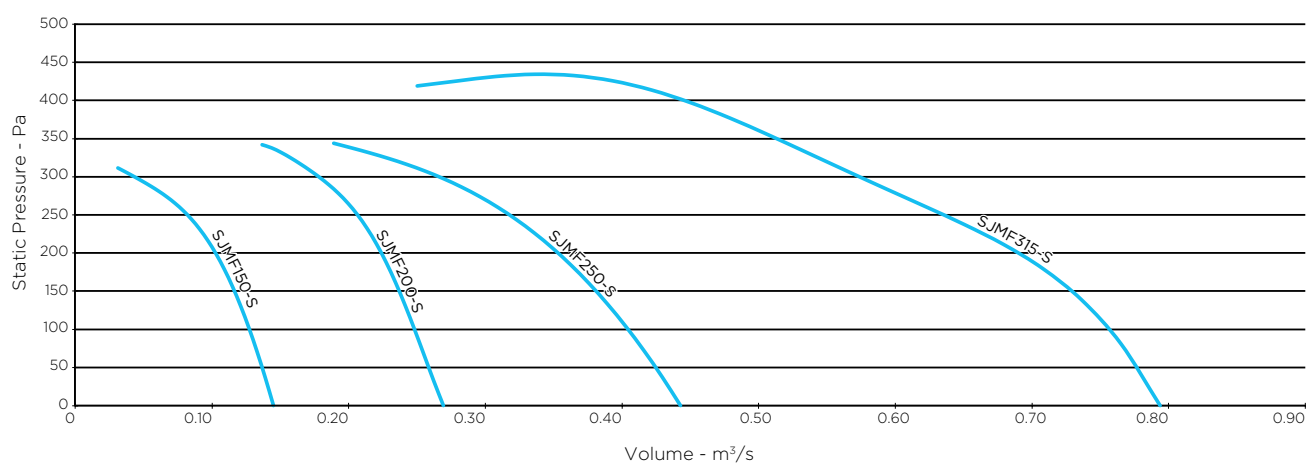




Dimensional Data

Product Code	A	B	C	D	E	F	Weight kg
SJMF150-S	547	148	39	243	123	10	5
SJMF200-S	699	198	40	304	174	10	8
SJMF250-S	859	248	45	353	221	10	14
SJMF315-S	940	313	46	415	268	10	20

Performance Data





VELOCITY SERIES HEADER BOX

The Fantech Velocity ceiling mounted header box fan features quiet operation and powerful air flow performance. It includes a fully optimised inlet cone and centrifugal impeller that maximises air pressure and ensures rooms are quickly cleared of steam and unpleasant odours. It includes a unique swing clip and removable spigot that makes it very easy to install into a standard 10" round fan cut out.

Quick Facts

- Advanced impeller and housing design provides powerful air flow and minimises noise
- High strength swing clips make installation easy
- Low resistance non-return backdraft damper maximises air flow performance
- Easy to remove diffuser makes cleaning simple
- Can be retrofitted into a standard 10" round fan cut out
- Fitted plug and lead simplifies installation
- Available with a 3 to 15 minute adjustable run-on timer

Construction

Housing and diffuser are made from injected moulded polypropylene. Fans are forward-curved centrifugal, driven by a squirrel cage motor.

Motor

Type - squirrel cage induction motor. Electricity supply - 230V, single-phase, 50Hz. Bearings - sealed for life, ball.

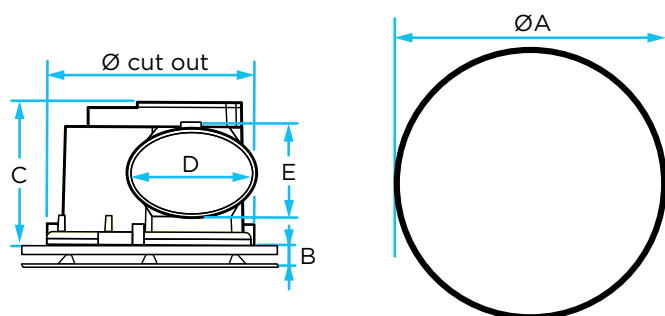
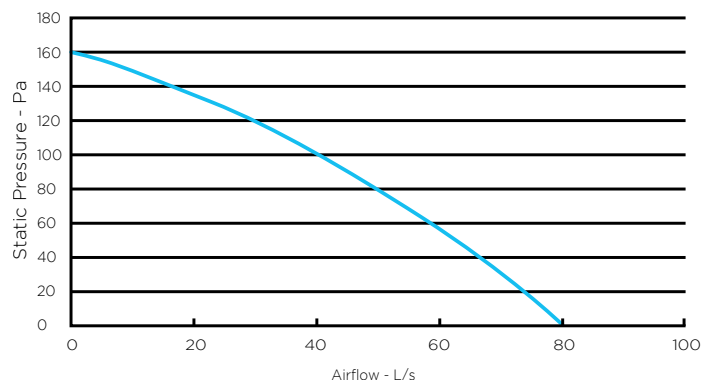
Electrical Connection

Timer model VEL250RNWHT includes a plug and lead to suit HPM 4 and Clipsal bases with 4 pin sockets.

Typical Applications

- Toilets
- Bathrooms
- Kitchens
- Laundries
- Ensuites
- Residential and Commercial

Performance Data



Dimensional Data

Product Code	DESCRIPTION	Dimensions (mm)						WEIGHT (kg)
		Ø Cut Out	ØA	B	C	D	E	
VEL250RNWH	Velocity series headerbox	290	353	30	197	170	120	3
VEL250RNWHT	Velocity series headerbox fan and 3 to 15 minute adjustable run-on timer	290	353	30	197	170	120	3



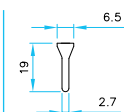
BAR GRILLE

Overview

The Bar Grilles are designed for supply, return or exhaust air applications. They are recommended for wall applications but can be modified for ceiling. The grille is constructed in aluminium and can be supplied with either a fixed or removable core for access. The grille has an attractive linear appearance and is available with three shapes of blade to give a variety of air directions. The maximum single length manufactured is 2400mm, but where longer lengths are required, joining links are provided to give an aligned, continuous appearance. It is available in your choice of a natural anodised finish or powder coated RAL9016. Other colours are available upon request, contact your local dealer.

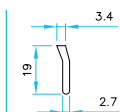
BGW

Wide blade
0 degrees



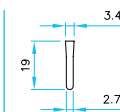
BG15

Slimline
blade
15 degrees



BG

Slimline
blade
0 degrees



Front view



Rear view



End view



EGG CRATE GRILLES

Overview

The EC series of egg crate grilles are designed for use in exhaust or return air applications in ceilings or walls. The grilles are manufactured from aluminium and use a 13mm x 13mm aluminium egg crate. The egg crate provides approximately 90% free area allowing for maximum air flows with low noise levels. The ECHF range of egg crate grilles come standard with filters and are hinged to allow for easy access. The filter medium is designed to trap the smallest particles while creating minimal air flow resistance. Standard colour is RAL9016. Other colours available upon request, contact your local dealer.

ECCLC

Egg crate
loose core

ECRC

Egg crate
removable core

ECHC

Egg crate
hinged core

ECHF

Egg crate hinged
core and filter

ECLCNA

Egg crate loose core
with neck adaptor &
fixing clips

ECLNAD

Egg crate loose
core with neck
adaptor, damper
& fixing clips

ECFC

Egg crate
fixed core

ECALC

Angled egg crate
loose core

ECARC

Angled egg crate
removable core

ECAHC

Angled egg crate
hinged core

ECAHF

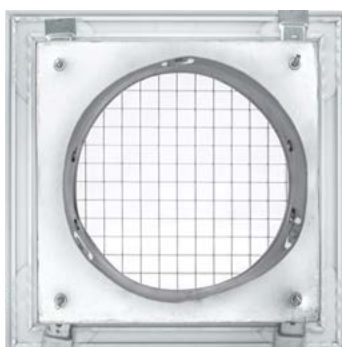
Angled egg crate
hinged core & filter

ECAFC

Angled egg crate
fixed core



Front view



Rear view



Side view



Side perspective



LINEAR SLOT DIFFUSER

Overview

The LSD series linear slot diffuser is designed for ceiling applications. The linear can be used for either supply or return air. Both size linear are available in one to eight slots. Blade adjustment gives a full range of air flow patterns from vertical to 180°. The blades and mullions are easily removed for access. Maximum single lengths are 2400mm, but where longer lengths are required, a simple joining strip will give the appearance of a continuous length. The standard finish is powder coated RAL9016 with black anodised blades. Other colours available upon request, contact your local dealer.

LSD20

Linear slot diffuser
with 20mm slots

LSD25

Linear slot diffuser
with 25mm slots

Size Range

1 to 8 slot
- infinite lengths



Rear perspective



Front view



End view



Rear view



Side view



PLASTIC ROUND DIFFUSER

Overview

This diffuser is injection molded from white ABS plastic and has integrated spring-loaded clips. Easy installation, removing and maintaining. Scratch resistant surface can be used effectively in heating or cooling applications. Tapered neck mounts directly to ductwork. 360° air pattern delivery maintains horizontal pattern without ceiling effect. Cones are designed to suit the reverse cycle systems and allow adjustable control of the airflow by moving the center up or down.



Front view



Rear view



Side view



MOTORISED ZONE DAMPER

Overview

This damper is suitable for controlling the air volume from full flow to shut off. Constructed from galvanised steel. Insulated body. Default zone function to ensure a zone is always open. Power supply, 2 options: 240V (MVD240) & 24V (MZD24). Zone motors c/w cable and 3 pin plug. Meet the SAA and C-tick standard.



Side view



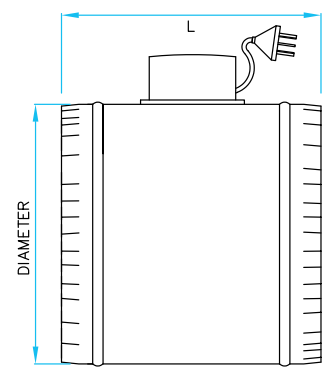
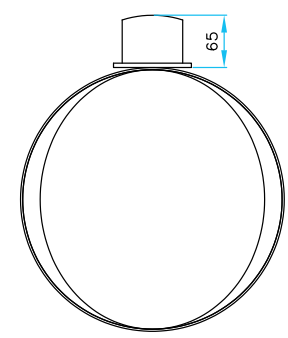
Front view



Top view

Product Code	Description	Diameter	Dim. "L"
MZD246	24 Volt - DO/DC Insulated 150 Ø Zone Damper - c/w Cable	150	235
MZD248	24 Volt - DO/DC Insulated 200 Ø Zone Damper - c/w Cable	200	275
MZD2410	24 Volt - DO/DC Insulated 250 Ø Zone Damper - c/w Cable	250	275
MZD2412	24 Volt - DO/DC Insulated 300 Ø Zone Damper - c/w Cable	300	315
MZD2414	24 Volt - DO/DC Insulated 350 Ø Zone Damper - c/w Cable	350	345
MZD2416	24 Volt - DO/DC Insulated 400 Ø Zone Damper - c/w Cable	400	395
MZD2406	240 Volt - DO/DC Insulated 150 Ø Zone Damper - c/w Cable	150	235
MZD2408	240 Volt - DO/DC Insulated 200 Ø Zone Damper - c/w Cable	200	275
MZD24010	240 Volt - DO/DC Insulated 250 Ø Zone Damper - c/w Cable	250	275
MZD24012	240 Volt - DO/DC Insulated 300 Ø Zone Damper - c/w Cable	300	315
MZD24014	240 Volt - DO/DC Insulated 350 Ø Zone Damper - c/w Cable	350	345
MZD24016	240 Volt - DO/DC Insulated 400 Ø Zone Damper - c/w Cable	400	395

Dimensions in millimetres



Options - MZDTP - 4 Zone Touch Pad Controller

Product Code	Description
MZDTP	4 Zone Touch Pad to Suit MZD Zone System
Transformer	Required for MZDTP - 24V Zone System



WEATHER LOUVRES

Overview

Idealair group supply various sizes and models of weather louvres to cater for most applications. All are manufactured from aluminium. The smaller weather louvre - WL40 - has a slimline design for smaller spaces ensuring low water ingress while maintaining maximum air flow at low noise levels. The larger weather louvre - WL100 - is designed for larger spaces and has a double water trap blade to ensure minimum ingress of water at higher air flow rates. Both louvres are designed to have blade mullions fitted when over certain lengths, ensuring greater strength to give better wind and vandal protection. The blade mullions also allow the weather louvres to be manufactured in very long lengths creating a strong blade join with a much straighter and aligned appearance. Both can be used in either supply or exhaust applications. WL40 & WL100 louvres have galvanised vermin deterrent mesh fitted to the rear and supplied with a natural anodised finish as standard. Powder coated colours are available by contacting your dealer.

WL40

Small weather louvre
- 50mm blade spacing

WL100

Large weather louvre
- 100mm blade spacing

WL40R

Small round weather louvre
- 50mm blade spacing

WL50SF

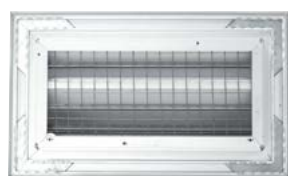
Small weather louvre
- 50mm blade spacing

SB

Snap on Box to suit
Weather Louvre



Front view



Rear view



Side view



Snap on Box



Front view



Rear view



Side view



Front view



Rear view



Side view



ENERGY RECOVERY VENTILATION (ERV)

Ventilation technology the world has been waiting for. Idealair Group ERV units provide fresh, clean and safe indoor air while helping to cut energy bills.

Why is a ventilation system important?

We spend more than 85% of our time indoors, in houses and offices. As today's buildings embrace energy-saving ideas and high-rise designs, and their architectural structure is characterised by high density and insulation, natural ventilation cannot be utilised effectively.

Natural ventilation by opening windows brings in dust and noise, making it difficult to maintain the ideal indoor environment.

Ventilation can be compared to the respiratory system of a building — good ventilation guarantees the health of the building and the people in it. However, if you live in a poorly ventilated house for long, you are likely to be vulnerable to sick house syndromes, e.g. dermatitis, headache and asthma.

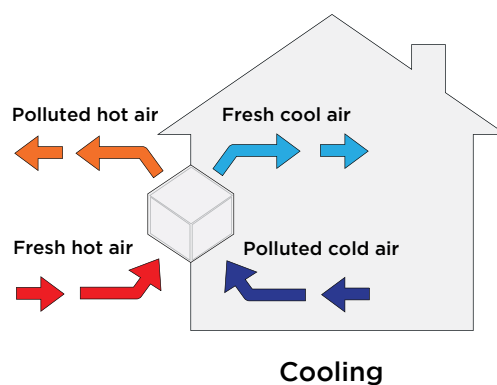
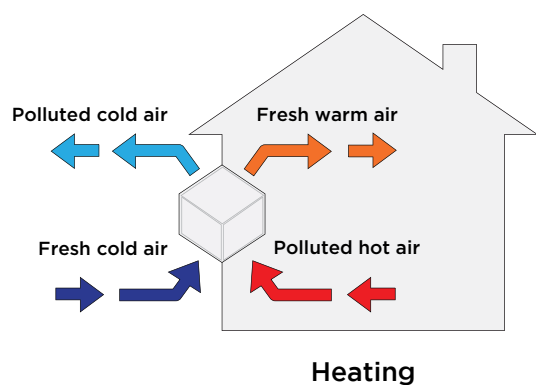
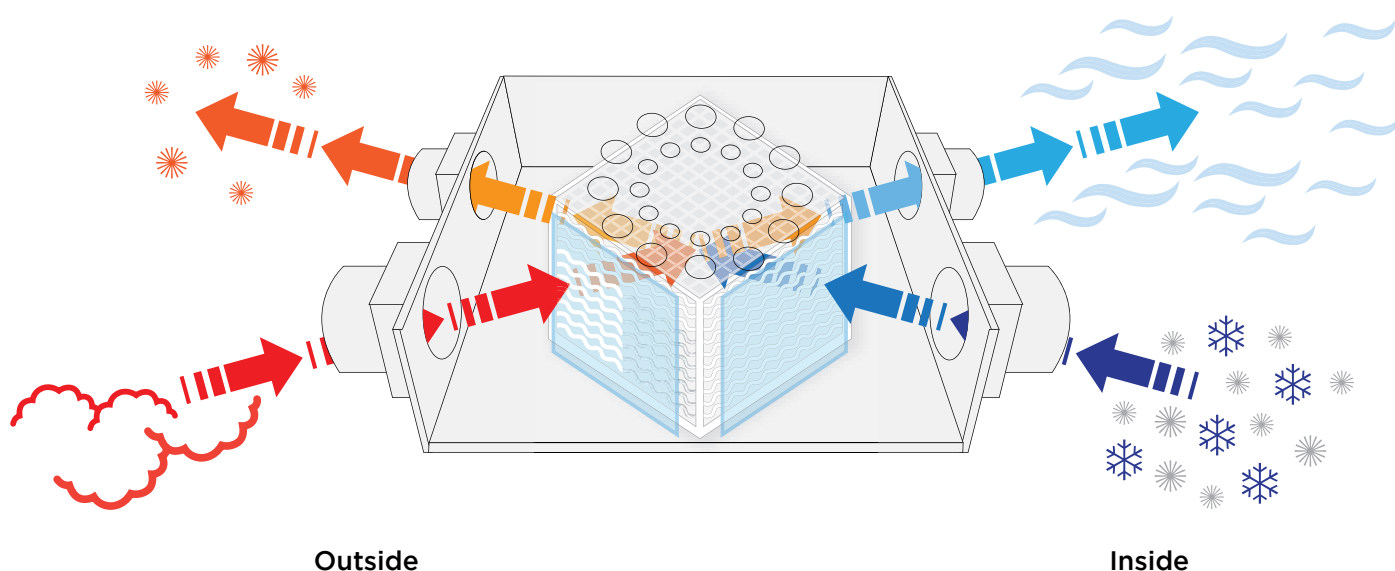
People also encounter problems with new house syndrome. This refers to symptoms including pain in the eyes, nose and throat, headaches, nausea and allergies that affect people who spend a lot of time indoors. The main culprit is the inhalation of indoor air polluted by construction materials or smoking.

Research has shown enclosed structures where ventilation is poor are especially vulnerable to this syndrome. ERV units ensure polluted indoor air is removed and fresh air is supplied. Clean air is sent into your home, allowing your ventilation system to become the basis for healthier living. The technology ensures the loss of heating and cooling energy is minimised, meaning that not only are you living in a healthier environment, but you are also saving money and energy while doing it.

WHAT IS ERV & HOW DOES IT WORK?

An ERV unit is fitted to a ventilation system within an enclosed space and has 3 main tasks:

- Facilitates transfer of heat/cool from air expelled to air brought in, helping to conserve energy (energy recovery).
- Thoroughly filters out all air pollutants.
- Supplies a constant flow of fresh air.





FLEXIBLE DUCT

Overview

Idealair Group is able to supply a wide range of quality flexible duct. All Idealair Group flexible duct has been tested to the relevant AS/NZ and UL standards with compliance certificates being available. All insulated flexible duct is manufactured using the genuine RM value for the polyester insulation material. The duct core and sleeve construction process is by laminating quality film materials using fire retardant glue. Comes in 6m lengths with 100-500mm diameter.

D Series

3 & 4 zero nude
core only

DMI Series

3 & 4 Zero Plain
& Acoustic Insulated
Flexible Duct

RM Values

R1.0, R1.5
& R2.0



SEMI RIGID FLEXIBLE DUCT

Overview

Constructed from high quality aluminum. High operating temperature and low-pressure loss, making it ideal for kitchen exhaust. Excellent flexibility and corrosion resistant. Temperature range: -30°C + 150°C. Operating pressure: 2000 Pa. Comes in 3m lengths with 100-300mm diameter





FAN COIL UNITS (FCU)

Overview

Fan Coil Units provide an efficient and cost-effective solution for heating and cooling in both commercial and residential applications. Designed for high cooling capacity at low external static pressure, FCUs offer quiet operation, compact dimensions, and are ideal for ceiling-concealed installations. These versatile units maintain optimal comfort levels, improve indoor air quality, and reduce energy consumption.

Choosing the Right Unit

Selecting the most suitable Fan Coil Unit typically involves balancing airflow or cooling capacity while considering external static pressure (ESP). Idealair Group understand that every project has unique needs, which is why our FCUs are designed with maximum flexibility in mind.

We offer a broad range of units that can be customised to meet specific project requirements, along with a variety of accessories and options. These units are CE and ETL certified, with many also holding Eurovent certification, which ensures quality and reliable performance.

Control Options

Idealair Group offer two control options with the FCU units: Intelligent Control and Flexible Control. The details of each option are outlined below.

I-Control: Intelligent Control Board

The PCB microprocessor-based intelligent control board manages various features to maintain room conditions at a user-defined set point.

- Full control logic connectivity via Modbus RTU or using a gateway with other communication protocols.
- Auto Fan Speed control for EC.
- Modulating Valve Control to adjust the water flow according to the room or set temperature.
- Auto Restart function.
- Drain Pump control (If installed).
- Autodynamic balancing function for Variable Water Flow system installations.

W-Control: Flexible Control

This option offers flexible functionality, perfect for external thermostat applications.

- Zone control operations.
- Limited LED Diagnostics.
- Independent control of drain pumps (if installed).

idealair group

Since 1979, Idealair Group has been a trusted partner for all apartment ventilation needs.

At Idealair Group, we specialise in ventilation, heating, ducting, energy recovery product, and more. Every product in our extensive range is tested and approved to ensure it meets the specified design requirements. Plus, with a complete range of stock readily available at all our branches, we ensure that order collection and delivery are both reliable and convenient.

We pride ourselves on providing tailored, engineered solutions for each customer. Our team of highly trained professionals are committed to offering practical help & advice, while meeting the diverse needs of your projects, from standard to complex applications.

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