Airflow AC Middle East FZE-LLC
تدفق الهواء AC الشرق الأوسط FZE-LLC
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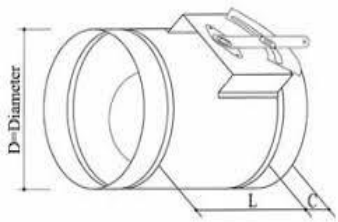
Round Volume Control Damper



Material

Frame:-GI/SS/Alu (thickness 0.5 to 1.5mm) (As per Customer requirement)
Blade:- GI/SS/Alu (thickness 1to 1.5mm (As per Customer requirement)
Bush:--Nylon /Brass /SS Bush/bronze
Spindle: ---12mm Dia Round /12x12mm Square
Applications
Airflow AC- damper may be used to cut off central air conditioning (heating or cooling) to an unused room, or to regulate it for room-by-room temperature and climate control

Volume Control Damper(S&C)

Material
Frame:-GI/SS/Alu (thickness 1 mm to 1.5mm) (As per Customer requirement)
Blade:- GI/SS/Alu (thickness 1 to 1.5mm (As per Customer requirement)
Bush:--Nylon /Brass /SS Bush/Bronze
Spindle: ---12mm Dia Round /12x12mm Square
Applications
Airflow AC- damper may be used to cut off central air conditioning (heating or cooling) to an unused room, or to regulate it for room-by-room temperature and climate control

AIRFLOW AC Products--Volume control Dampers, Sound Attenuators, Non Return Dampers, Round VCD, Rings, Access doors, Bypass VAV, C Patti, Fire dampers, Pressure independent VAV, Acoustic Louvers, S Patti. Square Diffusers, Round Diffusers, Slot Diffusers, Disc valves, SS Diffusers &SS Grills, Air Grills, Linear bar grills, Jet Nozzles, Sand Trap louvers, EAL& FAL, Aluminium filters, Synthetic filters, MS Ducting, SS Ducting, Aluminium Ducting, GI Ducting. Acrylic Sealant (Grey& White), Strip Bush, Loose Bush, Square Bush, Round Bush, Gear Wheels, Aluminium tapes, Foam gaskets.

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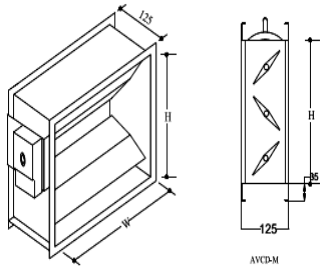
Volume control Damper-Flange



Material
Frame:- GI/SS/Alu/Ms (thickness 1 mm to 1.5mm) (As per Customer requirement)
Blade:-- GI/SS/Alu /Ms (thickness 1 to 1.5mm (As per Customer requirement)
Bush:--Nylon /Brass /SS Bush/bronze
Spindle: ---12mm Dia Round /12x12mm Square
Applications
Airflow AC- damper may be used to cut off central air conditioning (heating or cooling) to an unused room, or to regulate it for room-by-room temperature and climate control

Volume control Damper-Box type

Material
Frame:- GI/SS/Alu (thickness 1 mm to 1.5mm) (As per Customer requirement)
Blade:- GI/SS/Alu (thickness 1 to 1.5mm (As per Customer requirement)
Bush:--Nylon /Brass /SS Bush
Spindle: ---12mm Dia Round /12x12mm Square
Applications
Airflow AC- damper may be used to cut off central air conditioning (heating or cooling) to an unused room, or to regulate it for room-by-room temperature and climate control

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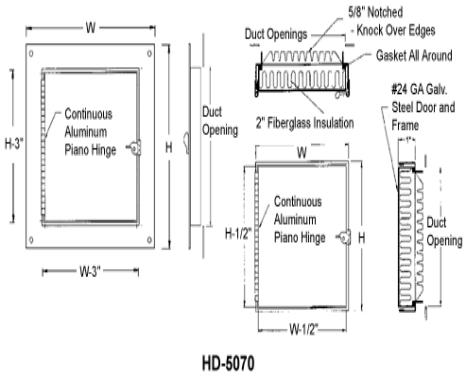
Access Door



HD-5070

Material

Frame:-GI/SS/Alu /MS (As per Customer requirement thickness up to 2mm)
Door:- GI/SS/Alu /Ms(As per Customer requirement thick up to 2mm)
22G galvanized steel flanged frame for strength.
Double skinned 24 G galvanized door panel.
1 inch thick insulation.
Notched knock over tabs and camlock fasteners.
Positive seal synthetic gaskets.
Safety retaining chain on removable door as an option item.
Continuous piano type hinge standard on model AD-HCL
Progressive action, zinc plated camlocks for secure closure 1 inch (25 mm) thick insulation for reduced noise and heat transfer (2 inch thick insulation option is also available).Synthetic gaskets for positive seal. Sizes and models to suit most applications.
Available hinges and safety chains (option).Meets SMACNA construction specification

Applications

Airflow AC- range of duct access doors has been designed to allow easy and convenient access to the equipment's within HVAC ductwork, while providing a secure, positive seal when closed.

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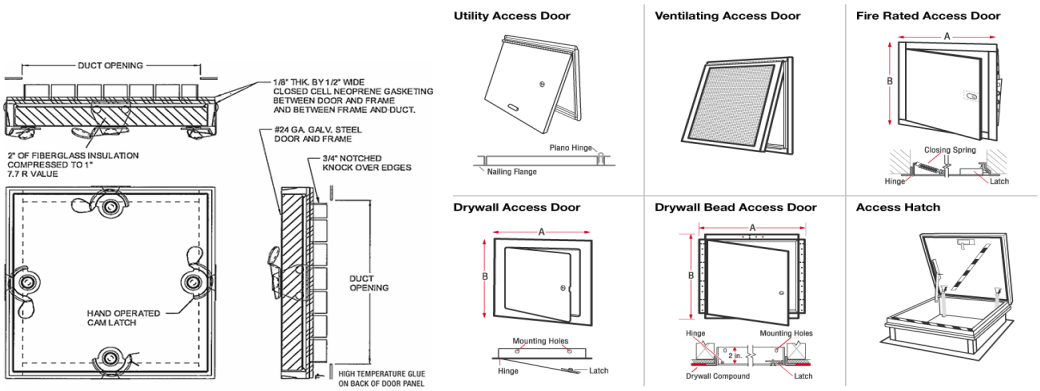
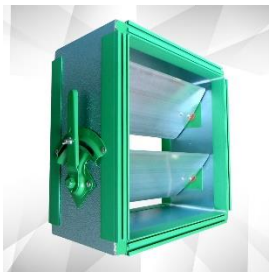
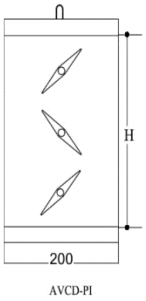


Pre insulated Volume Control Damper





PAL/Easy Sandwich panel frame with aluminum blade And hand- operated quadrant
Application: Generally used for majority applications In pre-insulated ducts
Construction:
Frame: 20mm thick polyurethane material with 2-sides Aluminum foil facing.
Frame Size: 200mm depth with flanges foreside-fixing.
Blades: Double skinned high quality extruded Aluminum aero foil profiles.
Drive Shaft: Electro plated square rod of size 12mm x 12mm.
Bushing: Self-lubricating nylon bushings.
Blade linkage: Nylon Gear.
Blade stopper: G.I angle of thickness 0.7mm.
Handle: Galvanized Steel locking hand quadrant.

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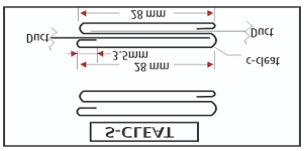
GI Rings

Construction
24/22 gauge Sheet **(thickness As per Customer requirement)**
Length 150/120/100 mm
Application
For flexible duct connectors, plenum connectors

S cleats & C cleats

'C' Cleat

'S' Cleat



Slip and Drive Cleats system is generally used for low-end, less-critical applications. Traditionally, only the Drive cleats ("C") which are positioning cleats were used for all four sides. This was giving a poor joint. The Slip cleats ("S" / "Standing S") on the alternate opposite sides provide the moderate rigidity to the joint. While installing, Drive cleats are always fitted on the shorter sides and Slip cleats on the longer sides.

By pass VAV

Construction:
Casing: High quality galvanized steel sheet of 0.9 mm thickness
By-Pass balancing damper: 0.9mm field adjustable balancing damper on the bypass outlet. Actuator: 0-10 Modulating actuator.
Acoustic Media: Interior surface of unit casing is acoustically and thermally lined with ½ inch, 32 kg/m³ density glass fiber with high density facing. UL listed and meets NFPA 90A and UL 181.Transformer: Step-down transformer, 240-24 Thermostat: 0-10V, Analog or Digital Capacities range from 50– 3200 CFM in 8 sizes, Casing construction meets SMACNA standards and provides excellent strength and rigidity. Thoroughly sealed to prevent air leakage

Applications:
Airflow AC- Variable Air Volume (VAV) Control units are ideal for low and medium pressure applications. These units are suitable for both cooling and heating systems. The temperature can be preset on the electronic analogue/digital thermostat, which senses the room temperature and controls the VAV Unit. The required quantity of air to each zone is pumped in to the serving area based on the load requirement and the balance air bypassed through the bypass section of the VAV unit above false ceiling or to return air ducts.

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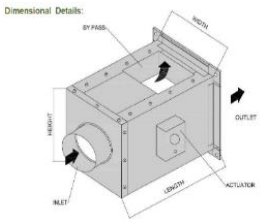

Pressure Independent VAV

VAV System works:
The air passes into each zone from the ductwork through individual VAV boxes. A temperature sensor located in each zone is connected to its VAV box and opens or closes the VAV box to maintain the defined temperature set-point. As the zone becomes satisfied, the VAV box modulates to a closed position. As the Zone's requirements become satisfied, the pressure in the ductwork begins to rise as the openings in the ductwork close. Variable Air Volume systems, are used to control both the ventilation and temperature to satisfy the requirements of a building.

VAV Applications:
Residential & Commercial Buildings, Airports, Office space, Hospitals Hotels, Retail stores, Shopping Malls, Educational facilities, Indoor Games, Stadiums, Theaters

Construction:
Casing Casings are made of high quality Galvanized Sheet Steel of 1.0mm Thick. Internal Insulation VAV Boxes are Internally Insulated with ½ Inch or 1 Inch Acoustic Liner (in compliance with project requirement). Metal encapsulated edge prevents cut fibers of the insulating plate falling off, and avoids erosion in the air stream.VAV Damper Shafts VAV Damper Shafts are made of 12mm Dia Round Solid Composite Steel shafts, which prevents condensation and breakage. Damper Gaskets Blade edges are sealed with Rubber Gaskets, preventing air leakage and for an air tight operation with low leakage characteristics.VAV Sound Attenuator (optional only) VAVs are provided with Sound Attenuator as an optional (upon request), where excess noise to be decreased or controlled Maximum. Flow Grid Differential Flow Grids are located inside the VAV inlet with pre-calibrated holes with die cast aluminum junction, which measures air volume accurately. Electric Duct Heater (Optional only) Terminal shall include an integral electric heater, where indicated on the

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Sound attenuators

Rectangular

Circular

Airflow AC-- offers the design and engineering assistance to integrate our line of duct silencers, sound attenuators into a system solution. As a result you may choose from a selection of standard or custom engineered duct silencers that will satisfy the requirements of each application.
Prime candidates for noise control measures are openings into and out of noisy environments. This includes the ventilation of buildings, enclosures, and equipment rooms. Integration of noise control measures such as silencers and louvers, into the system design requires careful consideration of space constraints, fan selection and aerodynamic pressure losses

Products:
Rectangular Duct Silencers, Circular Duct Silencers, Elbow Duct Silencers, Crosstalk and Vent Shaft Duct Silencers, Custom Duct Silencers

Case Studies:
Generator Room Ventilation Silencers, Induced-Draft Cooling Tower Attenuation, Generator Set and Cogeneration Unit - Sound Control Rooftop, Mechanical Equipment Noise Control, Backup Generator Sound Enclosure

Applications:
Fan Inlet and Discharge, Air Handling Units, Cooling Towers Radiators, HVAC Duct Systems for Commercial, Institutional and Industrial Buildings

Construction:
Outer casings of silencers shall be made of not less than 22 gauge; lock former quality galvanized steel, Type G90 [or 316/304 stainless steel, aluminum].
Interior baffles and bullet for silencers shall be made of not less than 22 gauge and properly stiffened to ensure structural integrity; lock form quality, perforated steel, galvanized steel, Type G90 [or 316/304 stainless steel, aluminum].
Acoustically absorptive fill except for reactive (pack less) silencers shall be inorganic glass fiber of a proper density to obtain the specified acoustic performance and be packed under not less than 5% compression to eliminate voids due to vibration and settling. Material shall be inert, vermin and moisture proof and impart no odor to the airstream.

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Elbow

Cross talk-L type

AIR Ducts

Galvanized Iron (GI) Ducts, Mild Steel (MS) Ducts
Stainless Steel (SS) Ducts, Aluminum (AL) Ducts

Special Notes:

Airflow AC -does not subscribe to usage of red-oxide painted Angle Iron flanges as red-oxide is a known carcinogen. Conventional G.I. flanges have now become obsolete as they are totally substituted by Slip and Drive cleats system.TDF cannot be made below 250 mm size of the duct. We suggest to use C & S cleat instead of TDF.

Duct Dimension in (mm)	ACEVAC STANDARD FOR SELECTION OF TDF DUCT GAUGES for 1220 MM coil Duct Pressure in Inches / (Pascals)											
	1"(250)*		2"(500)**		3"(750)***		4"(1000)		6"(1500)		10"(2500)	
	TDF (Rolled on flanges)	(Slip on flanges)	TDF (Rolled on flanges)	(Slip on flanges)	TDF (Rolled on flanges)	(Slip on flanges)	TDF (Rolled on flanges)	(Slip on flanges)	TDF (Rolled on flanges)	(Slip on flanges)	TDF (Rolled on flanges)	(Slip on flanges)

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200 & Under	**26**	26 – F	**26**	26 – F	**26**	26 – F	**26**	26 – F	26	26 – F	26	26 – F
200–250	**26**	26 – F	**26**	26 – F	**26**	26 – F	**26**	26 – F	24	24 – F	24	24 – F
251–300	**26**	26 – F	**26**	26 – F	**26**	26 – F	**26**	26 – F	24	24 – F	24	24 – F
301–350	**26**	26 – F	**26**	26 – F	**26**	26 – F	**26**	26 – F	24	24 – F	22	22 – F
351–400	**26**	26 – F	**26**	26 – F	**26**	26 – F	**26**	26 – F	24	24 – F	20	20 – F
401–450	**26**	26 – F	**26**	26 – F	**26**	26 - F	**26**	26 – F	24	24 – F	20	20 – F
451–500	**26**	26 – F	**26**	26 – F	**24**	24 – F	**24**	24 – F	24	24 – F	20	20 – F
501–550	**26**	26 – F	**26**	26 – F	**24**	24 – F	**24**	24 – F	22	24 – F	20	20 – I
551–600	**26**	26 – F	**26**	26 – F	**24**	24 – F	**24**	24 – F	22	22 – F	18	20 – I
601–650	**26**	26 – F	**26**	26 – F	**24**	24 – F	**22**	24 – F	22	22 – F	18	20 – I
651–700	**26**	26 – F	**26**	26 – F	**24**	24 – F	**22**	24 – F	20	22 – I	18	18 – I
701–750	**26**	26 – F	**24**	26 – F	**24**	24 – F	**22**	24 – F	20	22 – I	18 – JTR	18 – I
751–900	**26**	26 – F	**24**	24 – F	**22**	22 – F	**20**	22 – I	18	20 – I	18 – JTR	18 – I
901–1000	**24**	26 – F	**22**	24 – F	**20**	22 – I	18	**20 – I**	18 – JTR	18 – I	18 – JTR	18 – J
1001–1200	**24**	24 – F	**20**	22 – F	20 – JTR	**20 – I**	18 – JTR	**18 – I**	18 – JTR	18 – I	16 – JTR	16--J
1201–1300	**22**	24 – F	20 - JTR	**20 – I**	18 – JTR	**18 – I**	18 – JTR	**18 – I**	16 – JTR	16 – J	16 – JTR	16—J (JTR)
1301–1500	**22**	24 – F	20 - JTR	**20 – I**	18 – JTR	**18 – I**	18 – JTR	**18 – I**	16 – JTR	16--J		
1501–1800	22-JTR	**22 – I**	20 – JTR	**20 – I**	18 – JTR	**18 – J**	16 – JTR	**16 – I (JTR)**				

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1801–2100	20-JTR	**20 – I**	20 – JTR	**20-I**	16 – JTR	**16 – I (JTR)**						
2101–2400	18-JTR	**18 – I**	18 – JTR	**18 – J**	16 – JTR	**16-J (JTR)**						
2401–2700	18-JTR	**18 – I**	16 – JTR	**16 – J (JTR)**								
2701–3000	16 - JTR	**16 - J**										

Notes:

- A higher class flange can always be substituted for a lower class (e.g. Class “J” for Class “H”, / Class “H” for Class “E”, etc.)

1- SMACNA- Sheet Metal and Air conditioning Contractors’ National Association Inc.-“HVAC Duct Construction Standards- Metal and Flexible”-2005 (Third Edition), U.S.A.

2- Reading Guide- For duct sizes between, say, 901 mm and 1000 mm, when the pressure class is 1” w.g. static, we require duct gauge of 26 & slip-on connector F. For the same size range but with static pressure at 6” w.g. duct gauge of 18 & slip-on connector I. For the same range in case of TDF flanges in case of pressure class 1” w.g. the gauge should be 24, in case of 6” w.g. the gauge should be 18 g with TDF flange & with joint tie rod (JTR).

3- Use gasket size 10 mm wide and 4.5 mm thick for ducts up to 2” static pressure in case of slip-on flanges up to rigidity class I and for rigidity class above I use 15 mm wide & 6 mm thick gasket. Use gasket size of 15 mm wide X 6 mm thick with pressure class 3” w.g static and above.

4- Cleats should be fixed at max. 150 mm distance from corner & the at the center distance of 250 mm for ducts up to 3” w.g. static. For more than 3” w.g. static the center distance should not exceed 150 mm.

5 (Not applicable to current specification)

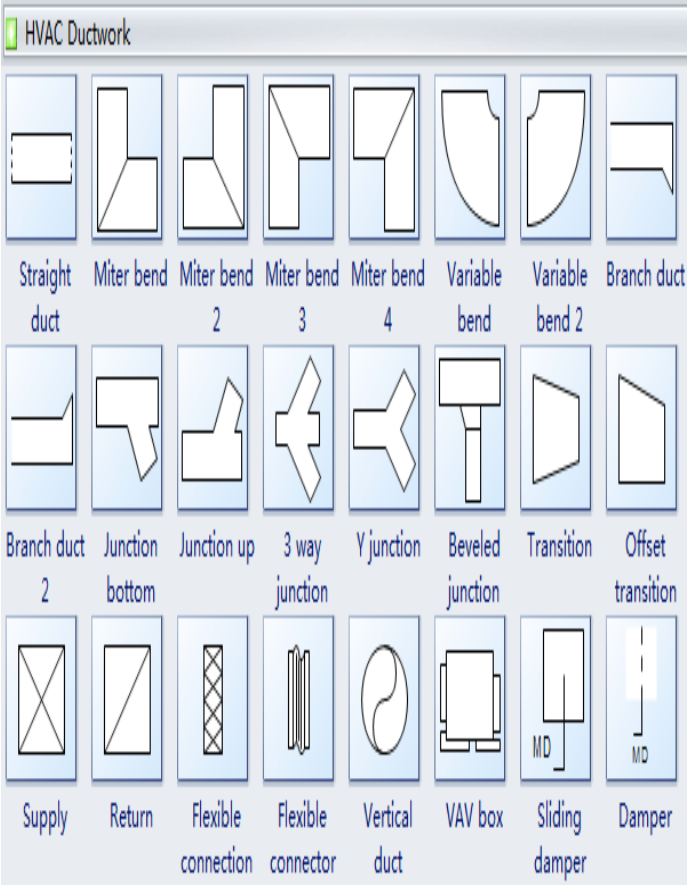
for non-critical comfort cooling applications (1” w.g. pressure class), optional “C & S” or “C & SS” cleat joints can be used.

Up to 450 mm duct size use “C & S” cleats.

451 to 750 mm duct size use "C & SS" cleats.
Over 750 mm duct size use flanges or TDF system.

Notes:

- * For 1" pressure class we can use cleats.
- ** Cleats not recommended over 1" pressure class but if it must be used then appropriate sealant is required for all applications above 1" w.g.
- *** In any event cleats should not be used for applications over 3" w.g.



Galvanized Iron (GI) Ducts

Galvanized Iron (GI) Ducts are manufactured at our State-of-the-art factory as per Customer requirements. All the accessories such as fittings, attachments, Components, and other goods are manufactured from the finest grade of material and cutting edge technology. Our quality controllers check each and every detail on well-defined quality parameters. Competitively priced, if need to be, the offered Range of ducting is also facilitated with sound proofing and high degree insulation.

Features:

- Hot-dipped galvanized steel sheets of lock-forming quality are used for the Manufacturing of standard ducts
- In order to re-inforce, all straight ducts have beading all along at a distance of 300 mm between them

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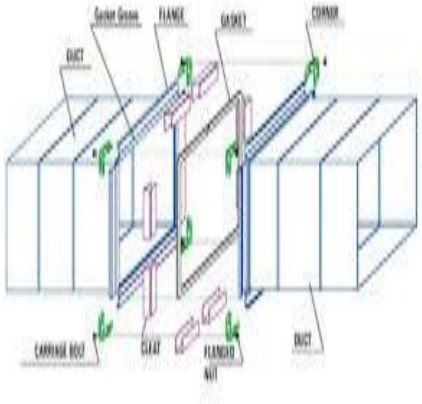

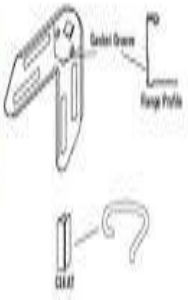

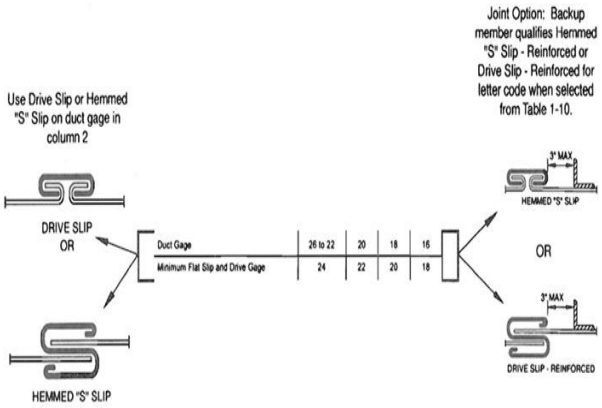

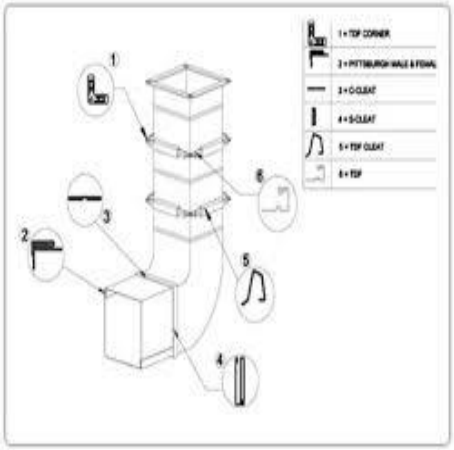

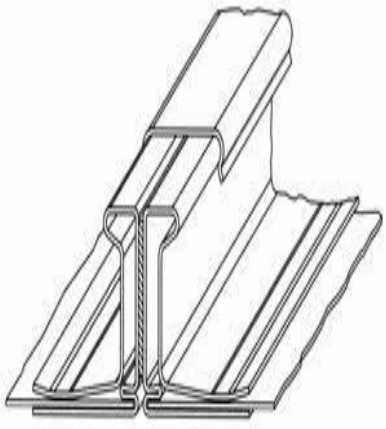

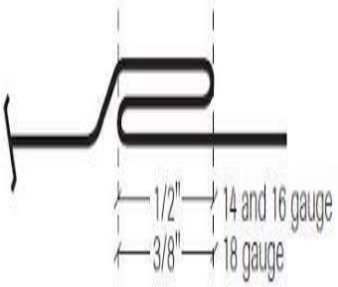

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Mild Steel (MS) Ducts

Airflow AC black steel ducts (MS Ducts) are fabricated from hot rolled or cold rolled Black steel sheets with fully welded construction to achieve leak proofing. MS ducting is made from the high quality mild steel which contains 0.16–0.29% carbon. This composition ensures that the material is neither ductile nor brittle. MS ducts are mainly used for the kitchen exhaust because of its inherently fire resistant characteristics. The fire resistance characteristics of MS ducts can be further enhanced by Fire Rated Spray Coat or painted with multiple coats of Red Oxide along with Rock wool insulation conforming to NFPA 96 Standards.

Stainless Steel (SS) Ducts

Airflow AC SS ducts are fabricated out from prime SS sheets of 316 / 304 grades with fully welded longitudinal and transverse joints.
Airflow AC is experienced in manufacturing round as well as rectangular stainless steel ducts. Dedicated team of engineers and technicians are involved in manufacturing process. Stainless steel Ducts are manufactured as per NFPA, BS and ASHRE standards. Stainless Steel ducts are mainly used for Kitchen exhaust in exposed to view areas
and in the areas where Hygiene is the top priority and in highly corrosive environments. Stainless Steel ducts have higher strength, rigidity and best finish in comparison with GI ducts. Its appearance though is much sleeker than the one in an aluminum duct it stands way out for its corrosion resistant characteristic. For SS Ducts stainless steel sheets are available in two qualities i.e. Grade 316 &Grade 304.

Aluminum (AL) Ducts

ACEVAC is experienced in manufacturing aluminum round as well as rectangular ducts. Material is as specified in ASTM B209, BS.EN485, BS.EN515, and BS.EN573 depending on the exposed environment. Airflow AC's Aluminum ducts are fabricated from aluminum sheets of AA1100 / Equal grade of sheets with Hemmed 'S' & Drive 'C' cleats or FL flanged type transverse joints. Plain type (Reflector finish) is also widely used as air ducts in areas such asSwimming pool, clean rooms of sensitive/industrial films etc.

***AIRFLOW AC Products**--Volume control Dampers, Sound Attenuators, Non Return Dampers, Round VCD, Rings, Access doors, Bypass VAV, C Patti, Fire dampers, Pressure independent VAV, Acoustic Louvers, S Patti. Square Diffusers, Round Diffusers, Slot Diffusers, Disc valves, SS Diffusers &SS Grills, Air Grills, Linear bar grills, Jet Nozzles, Sand Trap louvers, EAL& FAL, Aluminium filters, Synthetic filters, MS Ducting, SS Ducting, Aluminium Ducting, GI Ducting. Acrylic Sealant (Grey& White), Strip Bush, Loose Bush, Square Bush, Round Bush, Gear Wheels, Aluminium tapes, Foam gaskets.*

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Phenolic & Pre-Insulated Duct

There is a range of advanced and innovative systems of pre-insulated air-distribution ductwork available. The systems are suitable for both new build and refurbishment projects in the residential, commercial, institutional, and industrial and leisure sectors.
It is the answer to economical, technical, and constructive question. Many different material and system such as composite, PVC, etc. had been developed as an alternative to the galvanized sheet metal used traditionally.
Pre-Insulated Duct is the solution. It is a sandwich panel composed of a layer base from good fire retardant rigid polyurethane foam covering both sides with aluminum foil.
Pre-Insulated Duct is the solution. It is a sandwich panel composed of a layer base from good fire retardant rigid polyurethane foam covering both sides with aluminum foil.
Polyurethane pre-insulated duct has been developed and spread around the world. Its application has been gradually extended to all type of air distribution system such as industrial, commercial and civil.


Phenolic duct system is: Fire safety. Excellent, constant thermal insulation thanks to the high density Polyurethane (48 +/- 2kg/m³) Light Weight. (1.46kg/m² compared to 9.8kg/m² sheet metal duct).Silent operation, vibration and reverberation are minimized, increasing system comfort Hygienic and does not absorb humidity Air tight seal, very low air leakage, the leakage test result is only 0.98m³/hm²Simple and easy installation. Easy maintenance and modification can be performed on site, cut and gluing can be applied in any section of the ducts. Excellent appearance and long lasting, life expectancy are 20 years.

Pressure relief Damper & Non Return Damper

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Pressure relief dampers for gas fire extinguishing systems and transformer substations, Air leakage with back pressure to EN 1751, class 4 Maximum differential pressure: 5000 Pa, Differential pressure can be adjusted from 50 – 1000 Pa (B > 600 mm: 600 Pa max.),Blades made of aluminum/GI/SS, casing made of galvanized steel /SS Blades open when the maximum differential pressure is exceeded and close automatically when the pressure drops Blade locking with permanent magnet Robust, maintenance-free construction Available in standard sizes and many intermediate sizes Operating temperature 0 to 80 °C

Optional equipment and accessories

Installation sub frame, Powder coating (RAL or DB) Stainless steel construction with stainless steel casing; blades made of aluminum

Application

Pressure relief dampers of PRD for the protection of internal spaces from differential pressures in excess of set maximum levels When the set maximum differential pressure is exceeded, the blades automatically open to relieve the excess pressure Pressure peaks will be reliably controlled Differential pressure can be adjusted from 50 – 1000 Pa (B > 600 mm: 600 Pa max.)

Special characteristics

Robust, maintenance-free construction Maximum differential pressure: 5000 Pa
Air leakage with back pressure, in closing direction, to EN 1751, class 4 Damper for negative or positive pressure (air extract or discharge) Operating temperature 0 to 80 °C Maintenance-free DU bearings with Teflon coating, bearing shafts made of stainless steel Each blade is locked with a factory set permanent magnet Adjustable differential pressure for blade opening: 50 – 1000 Pa, depending on width

Functional description

Pressure-relief dampers open and close automatically. The blades are kept closed by magnets. If the differential pressure exceeds the set maximum value, the magnetic force is overcome, and the blades open. The airflow by which the excess pressure has been caused can now flow through the damper. The pressure peak is immediately and reliably controlled. The blade opening angle depends on the differential pressure and the volume flow rate.

When the differential pressure drops below approx. 30 Pa, the blades close again.

Fire Damper

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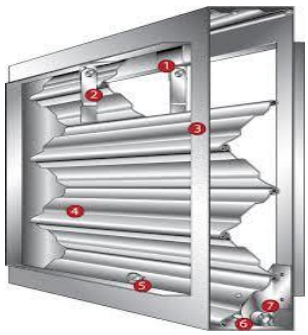

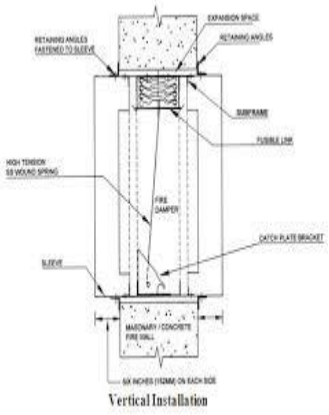

Construction:

Frame: High quality galvanized Iron Sheet of 1.6mm thickness. Blades: Interlocking type blades roll formed from 1mm thick galvanized steel. Blade Ramp: Formed from 1.6mm thick galvanized steel with a spring holder. Springs: 2nos. constant force stainless steel springs. Fusible Links: UL listed fusible links which has fire rating of 165° F / 212° F

Applications

Fire damper is a device installed in an air distribution system or an air transfer opening designed to close automatically upon detection of heat interrupting airflow and thereby restricting the passage of fire in the process. Fire dampers are installed in fire rated walls/barriers/partitions (sleeve required) where the HVAC ductwork penetrates ensuring that their integrity is maintained. The location and installation procedure of fire dampers should be in accordance with the widely accepted and recommended standard, NFPA 90A – Standard for the installation of Air-Conditioning.

Acoustic Louvers

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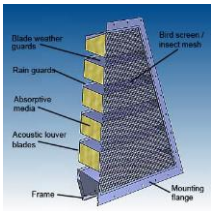

ACEVAC Fixed Blade Acoustic Louvers are economical, effective and attractive. They are designed for maximum sound reduction when space is limited. They are aesthetically pleasing and available in various material types intended to be used where space is limited.

Applications:
Building Ventilation
Generator Room Intake and Discharge Vents
Barrier Wall Systems - Cross Ventilation
Acoustical Enclosure Ventilation
Pump Room Ventilation

Accessories:
Flanges, Bird Screen, Powder-Coat Finish, Structural Design Services for Large Louver Banks and Walls

Acoustical Louvers are used as part of the intake/exhaust air system of buildings, structures, or equipment to help reduce noise produced by the system equipment. They have a relatively large surface area which compensates for their lack of depth. Models are available in varying depths, percent open area and blade configurations yielding various pressure loss and noise reduction performance.

Diffusers

Construction:
Frame: High quality extruded aluminum profile with 33 mm flange width.
Core: 0 temper Aluminum Sheet 1.1mm
Damper frame and blades: High quality extruded aluminum profile with natural aluminum finish. Black matt finish as option

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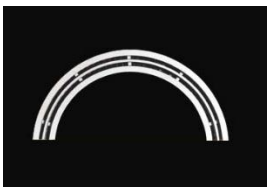
Round Diffuser

Construction:
Frame and inner cones: High quality aluminum sheet as standard. Steel construction as option.
Damper frame and blades: Steel sheet with black matt finish

Slot Diffuser



Construction:
Frame and blades: High quality extruded aluminum profiles.
Damper: Hit and miss damper
Slot Width: 20 mm as standard. 16 mm and 25 mm available as option
Number of slots: 1, 2,3,4,5,6,7,8
Length: up to 5.8 m in single piece

Perforated Diffuser

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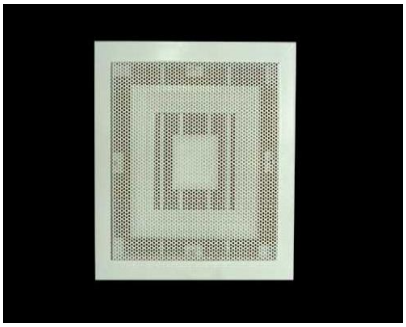
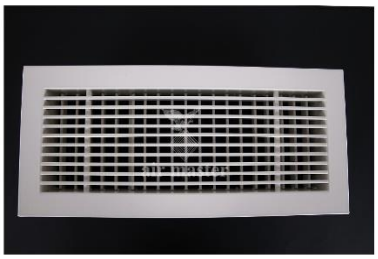


Perforated ceiling diffuser is a type of diffuser with perforated face. The core is the same as in 4 – way throw ceiling diffuser. They are also available with an option of individually adjustable curved blades with the option of 1-way, 2-way.3way and 4 way throw air patterns

Linear Bar Grilles



Construction:
Frame: High quality extruded aluminum profile with 30 mm flange width as standard. 12, 20, 24 mm flange widths are optional
Face bars: Aluminum profiles of 0°, 15°-1 way throw and 15°-2 way throw
Bar spacing: 12 mm as standard. 6 mm as option.
Grille width: 50 mm to 300 mm with increments of 50 mm.

Applications

High capacity as well as its pleasant aesthetic appearance Linear Bar Grille & Registers are commonly used along sides of relatively large spaces with double void areas such as Domes, Open Lobbies, Malls, Atriums and Buildings Entrances, where both aesthetics and high capacity air volumes are required

Disk Valve

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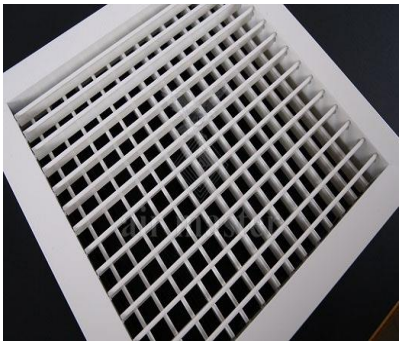
Construction:
Frame and disc: Steel sheet construction.
Mounting rings: Galvanized sheet steel.

Double Deflection Grilles



Construction:
Frame: High quality extruded aluminum profile with 30 mm flange width
Blade: Aero foil blades from aluminum profiles.
Blade spacing: 20 mm as standard.
Damper frame and blades: High quality extruded aluminum profiles with natural aluminum finish. Black matt finish as option.

Applications
Double deflection Grilles are generally used in walls for supply / return HVAC applications

Egg Crate Grilles

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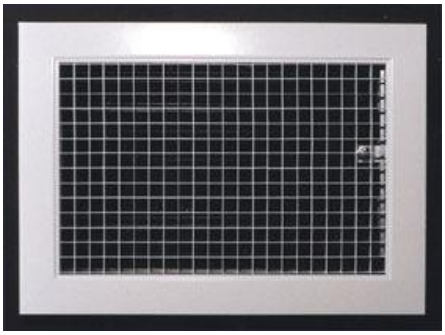
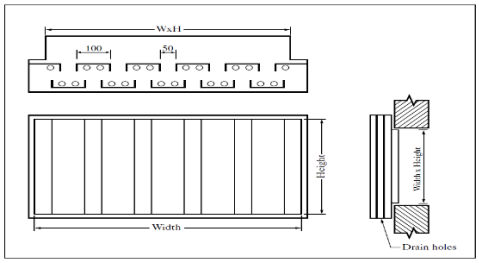


Construction:
Frame: Extruded Aluminum of 30mm width. 12, 16, 24 mm widths optional
Egg Crate Core: 12.5 mm x 12.5 mm x 12.5 mm Aluminum grid
Applications
Egg crate grilles are usually fixed on the ceiling for exhaust applications

Sand Trap Louvers



Construction
The frame and blades are of high quality extruded aluminum profiled construction with the advantages of corrosion resistance and rigidity. Composed two sets of inverted U-channels mounted vertically on two opposite rows. Drain holes of diameter 20 mm are provided in two rows at the bottom of the louver for emptying filtered sand and dust. Can be manufactured from G.I or SS as option. Designed to separate sand and dust from the air stream. Generally used for ventilation applications and at inlet duct of air handling unit. Bird screen to protect from the ingress of large objects

Exhaust Air Louver

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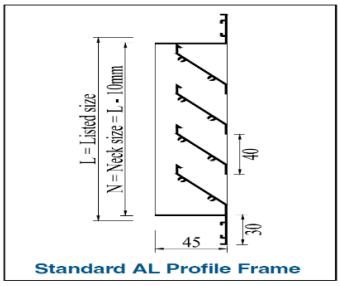
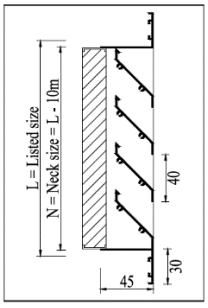


Construction:
Frame and blades: High quality extruded aluminum profile of 1.2mm thickness
Blade pitch: 40 mm standard
Flange width: 30mm standard
Exhaust air louver are mainly used in the ventilation system of a building

Fresh Air Louver



Construction:
Frame and blades: High quality extruded aluminum profile of 1.2mm thickness
Blade pitch: 40 mm standard
Flange width: 30mm standard
Filter Frame: Aluminum
Filter Media: Aluminum Media of thickness 25mm as standard
Fresh air louver are mainly used in the fresh air intake system of a building

SS Diffuser

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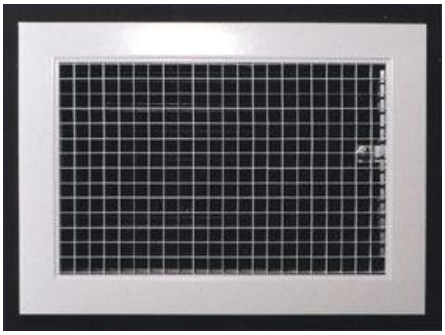
Construction:
Standard 304 SS or optional 316 SS construction ensures lasting performance
Satin polish is standard; clear or white epoxy coating is available
Optional opposed blade dampers provide airflow volume control
Frame: 304/316 Stainless Steel 1.2 mm.
Core: 304/316 Stainless Steel 1.2mm
Application:
Conventional Activated Sludge, MBR, SBR, Oxidation Ditches, Channel Aeration, Aerobic Digestors, Precise Dimensions, Durability, Low Maintenance.

SS Egg crate grill



Construction:
Standard 304 SS or optional 316 SS construction ensures lasting performance, Satin polish is standard; clear or white epoxy coating is available, Optional opposed blade dampers provide airflow volume control
Frame: 304/316 Stainless Steel 0.7 mm.
Egg crate: 304/316 Stainless Steel 0.5mm
Applications
Egg crate grilles (ECG) are suitable for extract air in either sidewall or ceiling applications where a high percentage free area is required.

SS Grille

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Construction:

Standard 304 SS or optional 316 SS construction ensures lasting performance, Satin polish is standard; clear or white epoxy coating is available, Optional opposed blade dampers provide airflow volume control

Frame: 304/316 Stainless Steel 1.2 mm.

Blade: 304/316 Stainless Steel 1.2 mm