



AUTHORIZED DEALER



GENERAL CATALOGUE



AIRTECH
A/C CONTRACTING - AIR MOVEMENT PRODUCTS





Our Mission

Manufacturing & Supplying all kinds of Air Movement Products, The Company in progress to have tests on its products at

AMCA INTERNATIONAL



Designing, Planning, Supplying & Installing Galvanized & Pre-insulated Duct work for HVAC appliances, in accordance to SMACNA Standards, in commercial, residential, industrial & institutional buildings.



Also, Naseem air conditioning is an Authorized Dealer for Carrier AC units



United Arab Emirates:

P.O. Box: 3507
Fujairah
Tel: +971-9-2229262
Fax: +971-9-2220488
email: naseemac@naseemac.com

Company Profile



Airtech's goal is to meet our customers' needs for quality and speed and maintain flexibility to adapt custom specifications as requested. We offer numerous models of volume dampers, back draft dampers, sand trap louver, diffusers, grilles and many other forms of air movement and air control products in all shapes and sizes. Available products include everything from opposed blade dampers, zone dampers, gravity back draft dampers, and motorized dampers, and Airtech also specializes in the production of galvanized ductwork, pre-insulated ductwork, plenum box, sound attenuator, acoustic louver and related products.



Naseem Air-Conditioning: is a sister company located in Fujairah - United Arab Emirates (UAE), the factory located also in the same area, the company was founded earlier 2005, the company handles mechanical works, Designing, Planning & Installing Galvanized & Pre-insulated Duct work for HVAC appliances, in accordance to SMACNA Standards, in commercial, residential, industrial & institutional buildings. In addition to the mentioned works, we have professional teams to maintenance the HVAC of all commercial & residential buildings, including Chillers, Fan coil, Package and Split Units.

The company is Authorized Dealer for Carrier Products





Naseem Air-Conditioning LLC.

Is your first source for prompt, professional, and reliable HVAC/Duct services.

Our friendly and helpful staffs work with you on a one-on-one basis to make sure you get everything you are looking for.

We cater our services to your exact needs. We have been in business in UAE for many years and have been in the industry for more than 25 years.

We can do everything in the HVAC field; from AC installation to ductwork installation and insulation for residential, commercial, industrial and transportation applications.

Your complete satisfaction is our first priority, and we offer honest and reliable services at the most affordable prices.



Turn to the Experts.

UNITED ARAB EMIRATES
Ministry of Public Works
TENDERS & CONTRACTS DEP.



دولة الإمارات العربية المتحدة
وزارة الأشغال العامة
إدارة المناقصات والعقود

شهادة تسجيل مقبول باطن

ص . ب : 3507
الفاكس : 092220488

رقم التسجيل: 71643

الأسم التجاري: نصيب للتكليف
العنوان: إمارة العجيرة
الهاتف: 092229262

مجال التسجيل: مقبول باطن - أعمال تكليف الهواء

* - تجديد

- مقبول باطن لأعمال التكليف الخاصة بمشاريع الوزارة المختلفة (الفئة السنغرى والمتوسطة)

رقم الإيصال وتاريخه: 2008/04/24 - 137513512905

خدمة التسجيل الإلكتروني



الشركة المتحدة كارير ذ.م.م.
UTS Carrier L.L.C.
A Carrier Joint Venture Company



03/11/2007

TO WHOM IT MY CONCERN

This is to certify M/S Naseem Air-Conditioning LLC, PO Box 3507; Fujairah is the authorized dealer of carrier Air-Conditioning Equipments, which includes Windows or Room Air Conditioners, Decorative or Duct-Free Split Units, Ducted Splits and Packaged Units in the Region of Fujairah.



One hundred years of innovation.





Company Information

NASEEM AIR-CONDITIONING L.L.C

AIRTECH AIR MOVEMENT PRODUCTS L.L.C

Office:

Fujairah – Hamad Bin Abdullah Street – 16 Bldg. – facing Etisalat Tower
Tel: 09-2229262 – Fax 09-2220488

Mailing address:

Fujairah
P.O. Box: 3507
UAE

Factory:

Fujairah – Industrial Zone.
Fujairah- Alhail

Website:







www.naseemac.com

Email:

naseemac@naseemac.com



NASEEM AND AIRTECH CURRENTLY INCLUDES THE FOLLOWING

-  Sheet metal works
-  Pre-insulated ductworks
-  Carrier Authorized Dealer
-  AC contracting (Chilled Water & DX System)
-  Air movement Products
-  AC maintenance division

Line of Business

Sheet Metal Works Includes:

The company Is a leading company in manufacturing, supplying & installing all kinds of Ductwork, its offices are located in Fujairah - UAE the factory is located in the industrial area, the company was founded in earlier 2000's, and handles the Mechanical Works / Air Side, in additional to ductwork, we are in progress to produce a large line of Air Distribution Products, such as: Dampers, Grilles, Diffusers, etc.. For use in residential, commercial, industrial & institutional buildings.

Sister Company

Engineering Technologies : is a leading company in heating and air conditioning works , its offices located in Aleppo & Idleb & Latakia - Syria , Head Office located in Ground Floor, Contracting Building, Al Masharqa, Aleppo – Tel : +963212236145/6 , Fax : +963212281731
website : www.etech-sy.com, Info@etech-sy.com.

The company was founded in 1993 and handles the electromechanical works since that date, Engineering Technologies execute many projects in Syria for HVC and Mechanical works such as AC System, Underfloor Heating, Generators and Lifts,..... Etc.



DUCTWORK CONTRACTING...

A Complete Design...Manufacture and Installation Service.



Manufacture

We fabricate all types of sheet metal & pre-insulated ductwork as part of our design, build and installation service - or we can simply undertake stand-alone fabrication projects carried out in accordance with your instructions. The manufacturing process is closely supervised to provide highest product quality.



On-site Installation

We have teams of fully equipped and trained ductwork erectors who are available to undertake installation works at any location throughout UNITED ARAB EMIRATES.





Products catalogue



- GALVANIZED DUCTWORK
- PLENUM BOX
- SQUARE & CIRCULAR SOUND ATTENUATORS
- PRE-INSULATED DUCTWORK
- SQUARE VOLUME CONTROL DAMPER
- CIRCULAR VOLUME CONTROL DAMPER
- ACCESS DOOR & PANELS
- ALUMINUM FILTERS
- ALUMINUM GRILLES & DIFFUSERS
- ALUMINUM ACOUSTIC LOUVER
- GALVANIZED ACOUSTIC LOUVER
- VAV TERMINAL UNITS
- SAND TRAP LOUVER



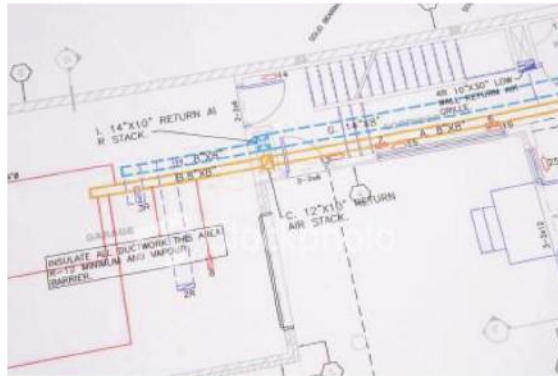
DUCTWORK CONTRACTING...

A Complete Design and Manufacture.

Manufacture

We fabricate all types of sheet metal ductwork as part of our design, build and installation service - or we can simply undertake stand-alone fabrication projects carried out in accordance with your instructions.

The manufacturing process is closely supervised to provide highest product quality.



Constructions:

Where no specific duct pressure class designations are provided, all ducts and fittings shall be constructed as per SMACNA's duct construction standards 500 pa. (+2 in W.G.) shown in the following table:

Rectangular Duct & Fittings	
Maximum Duct Dimension (mm)	US Gauge
0-457	26
458-915	24
916-1219	22
1220-1372	20
1373-1524	18
1525-3048	18





PLENUM BOX

General:

Plenum Box is made of galvanized sheet metal, intend for use above false ceiling to be connected to the Linear Slot Diffuser or Square Ceiling Diffuser from outlet side, the inlet side connected to the duct, they can be connected either with galvanized duct or flexible duct, and the boxes are internal insulated as per client's request.

Recommended Air Inlet Sizes:

MAX FLOW		DIA.	
CFM	L/S	INCHES	MM
100	47	5	127
150	71	6	152
250	118	7	178
350	165	8	203
450	212	9	229
500	283	10	254
1000	472	12	305
1500	708	14	358

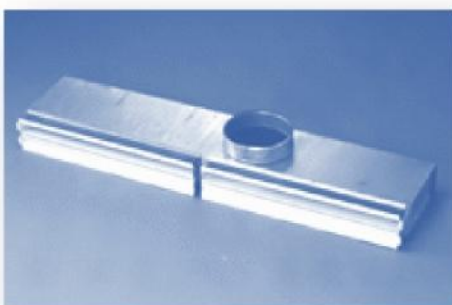


Construction:

- ☛ Frame: 26, 24, 22 or 20 gauge galvanized steel sheet.
- ☛ Spigots: Circular spigots of 100 mm length as standard. Square, rectangular and oval shaped spigots are available as option.
- ☛ Optional accessories: Volume control damper.
- ☛ Insulation: 25 mm thick, 24 kg/m3 density fiber glass insulation as standard. Other insulation as option.
- ☛ Plenum boxes of length of up to two meters can be manufactured. For more than 2 meters plenum boxes will be arranged with multiple sections.

Plenum opening Vs No of slots:

No of slots	1	2	3	4	5	6	7	8
	Plenum opening size in mm							
☛ 16 mm slot opening	47	77	115	149	184	218	253	287
☛ 20 mm slot opening	50	88	126	164	202	198	278	316
☛ 25 mm slot opening	55	98	142	185	228	272	315	358



SOUND ATTENUATORS

General:

Airtechs' Sound Attenuators were developed to various requirements from the consulting engineers, owners & contractors. They provide the most economical choice for solving the wide range of noise control issues encountered in the HVAC field.

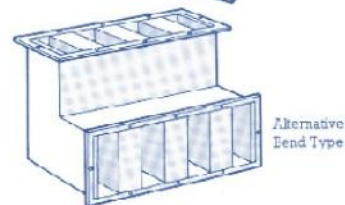
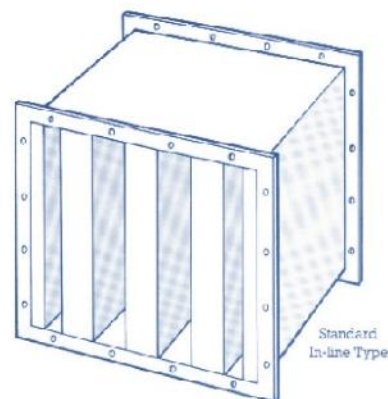
Constructions:

All attenuators (casings & Splitters) are constructed of Galvanized sheet metal Ga. 20 minimum. Casings are formed with lock-formed seams with duct sealant (complied with SMACNA standards). Other casing materials are available upon request.

The splitters contains acoustic infill has a glass tissue facing concealed behind galvanized perforated sheet, the splitters have radius end at the air flow direction to minimize air pressure loss and regenerated noise. Sound Attenuators are available in Square, Rectangular & Circular; they can be fabricated as straight, reduced and elbowed duct.

Features and Benefits:

- Minimum pressure drop with Maximum insertion loss
- Large radius inlets & tapered tails to minimize system effects
- Available in any cross-sectional size eliminating the need for transitions
- Can be fabricated as a transition from a smaller duct size to a larger duct size where space is limited
- Fabricated in components to make the overall silencer bank size for easy handling and installation
- Comes standard with options for flanges or Slip and Drive Connection
- Used in applications ranging from low velocity duct systems to high velocity duct systems





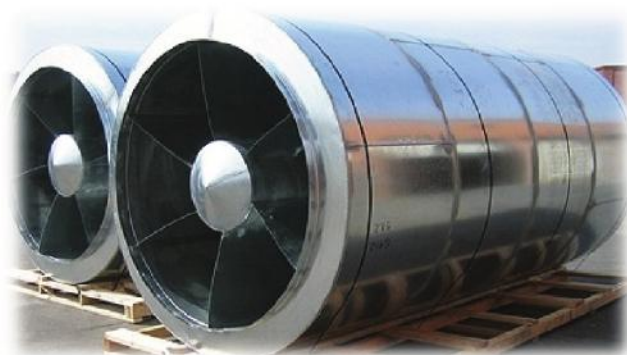
SOUND ATTENUATORS (CIRCULAR)

General:

Circular Sound Attenuator was developed to various requirements from the consulting engineers, owners & contractors. They provide the most economical choice for solving the wide range of noise control issues encountered in the HVAC field.

Constructions:

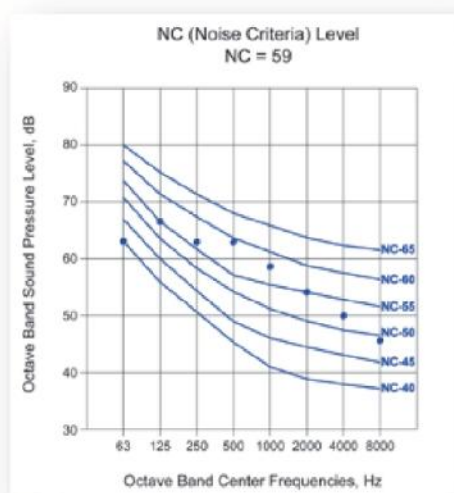
All attenuators (casings & Splitters) are constructed of Galvanized sheet metal Ga. 20 minimum. Casings are formed with lock-formed seams with duct sealant (complied with SMACNA standards). Other casing materials are available upon request.



Outer casings of standard circular silencers shall be made of lock former quality, galvanized steel, Type G90 (OPTIONAL: 316/304 stainless steel, aluminum), in the following gauges:

OUTSIDE DIA. METAL GAUGE- (0-10"wg+)

12-26 inches:	22 ga.
27-60 inches:	18 ga.
61-84 inches:	16 ga.



PRE-INSULATED DUCT

Pre-Insulated Aluminum Duct 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.

The aluminum guarantees sturdiness and withstand corrosion in long term use.

Polyurethane pre-insulated duct has been developed and spread around the world. Its application has been gradually extended to all type of distribution system such as industrial, commercial and civil.



Pre-insulated duct system is:

- Fire safety.
- Excellent, constant thermal insulation thanks to the high density Polyurethane ($48 \pm 2 \text{kg/m}^3$)
- Light Weight. (1.46kg/m^2 compared to 9.8kg/m^2 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 $0.98 \text{m}^3/\text{h.m}^2$
- Simple 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.





VOLUME CONTROL DAMPER (VCD)

Airtechs' Volume control dampers are used to regulate airflow in a duct system. They are available in a range of round, flat oval, and rectangular sizes.



Airtech offers a complete line of volume control damper that meet a variety of applications.

NEW: PRE-INSULATED VOLUME DAMPER



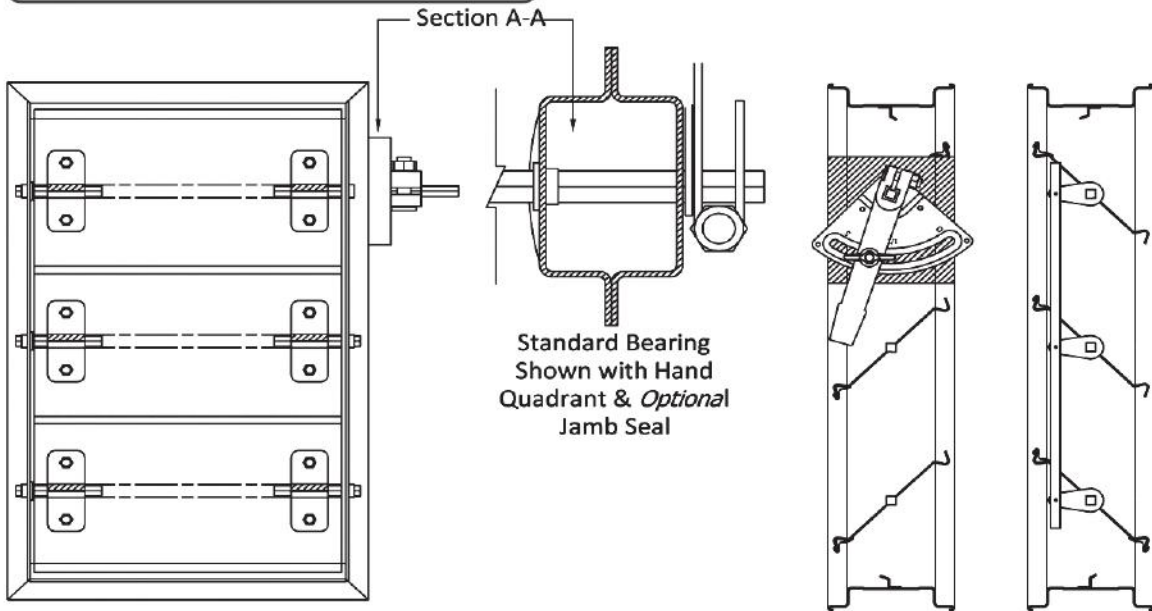
Motorized Volume Control Damper

Dampers can be furnished with optional electric actuator



Product:
 Square Air Control Damper
 Model "SAP"
 (Parallel Blades)

Product Code:
 SAP 101



"SAP 101"
 Model

Standard Construction

Frame: 1.25 mm galvanized steel interlocking hat section channel frame construction.

Blades: 1.25 mm galvanized 3 "V's" formed.

Bearing: polyprop (PP)

Axles: 12 mm square zinc plated steel studs.

Linkage: 12 x 3 mm, zink plated steel concealed in the channel frame.

Jackshaft: 12 mm square zink plated steel.
 Hand quadrant regulator

Optional Construction

- Jamp Seal
- Sintered bronze
- ON/OFF or Modulating Actuator

Single Section size availability
Minimum: 15x15 cm (6"x6") Max: 100x100 cm (40"x40")
Multiple Sections size
All sizes over 100 cm (40") either Width or Height will be divided to 2 or more sections



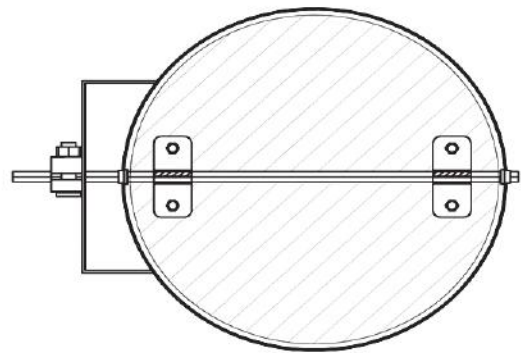
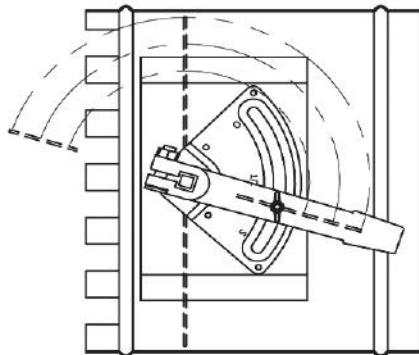
Product:

Circular Air Control Damper
Model "CAS"
(Single Blade)

Product Code:

CAS 303

Round Damper
Easy to install, becomes part of the duct for flexible connections.



Standard Construction

Frame:

0.9 mm galvanized steel, 17.5 cm wide

Blades:

0.9 mm galvanized steel

Stand-off bracket:

5 cm hand quadrant stand-off bracket

Control shaft / hand quadrant:

12 mm square axle shaft extending beyond frame through factory mounted, locking hand quadrant

Bearings:

polyprop (PP)

Maximum velocity:

450 m/min.

Maximum temperature:

120 C

Damper Standard Sizes	
Inches	MM
4"	102
5"	127
6"	152
8"	203
10"	254
12"	305

FIRE DAMPER

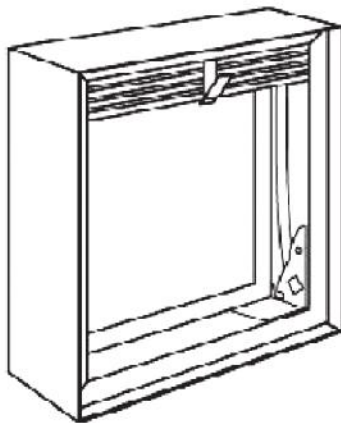
- ☛ Fire Dampers are available to meet all application needs
- ☛ Models are available for both horizontal and vertical mount.
- ☛ Vertical mount models are gravity operated (**Static Fire Damper**).
- ☛ Horizontal mount dampers are spring operated (**Dynamic Fire Damper**) with a blade lock for positive closure.
- ☛ Type B with damper blades out of the airstream provide higher free area and less resistance to air flow.
- ☛ All fire dampers are equipped with **UL listed** replaceable fusible links to close automatically when the air temperature reaches 165°F.
- ☛ 212°F fusible links are also available.
- ☛ Available sizes from 4" x 4" up to 30" x 30" as single section
- ☛ All sizes above 30" x 30" will be divided into multi sections

Type 'B'

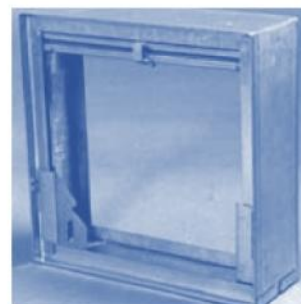


LISTED FUSIBLE LINK

- ☛ **Type A with damper blades in the airstream**

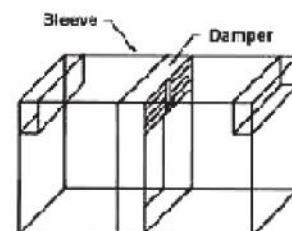


Type 'A'



SLEEVE OPTION

- ☛ Fire dampers are available completed with factory installed sleeves.
- ☛ Galvanized and/or stainless steel sleeves, are available from 22 G to 16 G and in standard length of 12" up to 28".

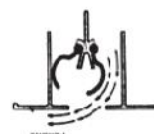




GRILLES & DIFFUSERS

Airtech offers a complete line of Aluminum Extruded Air outlets:

- Supply air grilles
- Return air grilles
- Supply and return ceiling diffusers
- Round ceiling diffusers
- Linear slot diffusers
- Linear bar grilles
- Return linear bar grilles
- Jet diffusers
- Jet nozzle
- Disc valve
- Door grille



HORIZONTAL



HORIZONTAL & DAMPER



VERTICAL



CLOSED



SUPPLY AND RETURN CEILING DIFFUSERS

- ☞ Air supply or air return between 2.6mtrs and 4.0mtrs high in Air-conditioning, Ventilating and Heating systems
- ☞ Overlapped in false ceiling by means of hidden fixing systems or replacing a false ceiling tile
- ☞ Extruded aluminum construction
- ☞ External frame with flat 33mm frontal face and inclined in internal core
- ☞ Centre cores assembly removable type to remove easily for cleaning purpose and for concealed fixing as well as for damper operation
- ☞ Available in one way, two way, three way or four way
- ☞ Standard and non-standard square and rectangular sizes are available
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL 9010 colors

Standard size (WXH)	
Inches	Mm
6" x 6"	150 x 150
9" x 9"	225 x 225
12" x 12"	300 x 300
15" x 15"	375 x 375
18" x 18"	450 x 450



ROUND CEILING DIFFUSERS

- ☞ Air supply or air return to different heights from 2.6 mtrs to 4.0 mtrs in Air-conditioning, Ventilating and Heating systems
- ☞ High air handling capacity. Useful in modular ceiling application, where a ceiling tile can be replaced by a round diffuser of any neck size
- ☞ Overlapped in false ceiling by means of hidden fixing systems or riveted onto a visible circular duct as well as directly on the plenum boxes
- ☞ Constructed in high grade aluminum
- ☞ External frame with flat frontal face and angled internal cores
- ☞ Removable center core assembly can be removed easily for concealed fixing purpose and also for operating the damper by means of screws
- ☞ Available in Natural Aluminum, Anodized or Powder coated in standard RAL colors

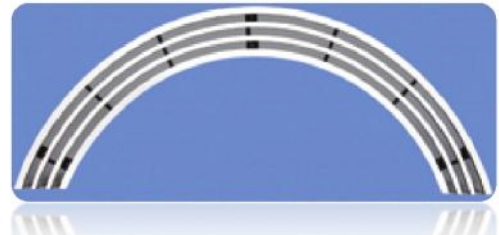
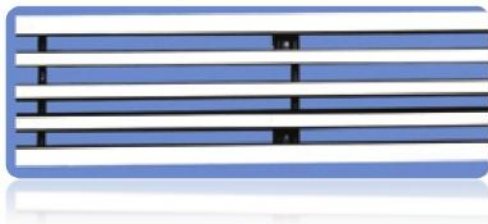
Standard size (WXH)	
Inches	Mm
6"	150
8"	200
10"	250
12"	300
14"	350





LINEAR SLOT DIFFUSERS

- ☞ Air supply or air return between in Air-conditioning, Ventilating and Heating systems
- ☞ Overlapped in false ceiling by means of hidden fixing systems
- ☞ All keep the formation of continuous line diffusers with active and inactive areas without breaking the uniformity of the slots
- ☞ Frames and blades are high quality extruded aluminum profiles
- ☞ Frame with flat frontal face and vanes in linear layout
- ☞ Hit and miss dampers (powder coated with black color) available for control the air throw
- ☞ Available from 1 slot to 8 slots diffuser or more on request
- ☞ All standard or non-standard sizes are available
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL colors



STANDARD SLOT SIZE 25 MM

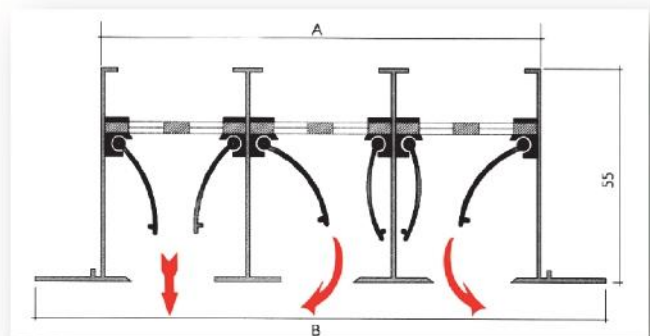
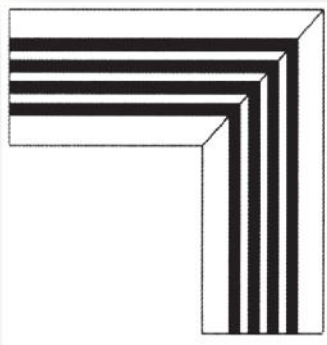
NO OF SLOTS	1 SLOT	2 SLOT	3 SLOT	4 SLOT	5 SLOT	6 SLOT	7 SLOT	8 SLOT
NECK SIZE 'A' (MM)	45	88	132	175	218	262	305	348
FLANGE SIZE 'B' (MM)	81	124	167	210	253	296	339	382

STANDARD SLOT SIZE 20 MM

NO OF SLOTS	1 SLOT	2 SLOT	3 SLOT	4 SLOT	5 SLOT	6 SLOT	7 SLOT	8 SLOT
NECK SIZE 'A' (MM)	40	78	116	154	192	230	268	306
FLANGE SIZE 'B' (MM)	76	114	152	190	228	266	304	342

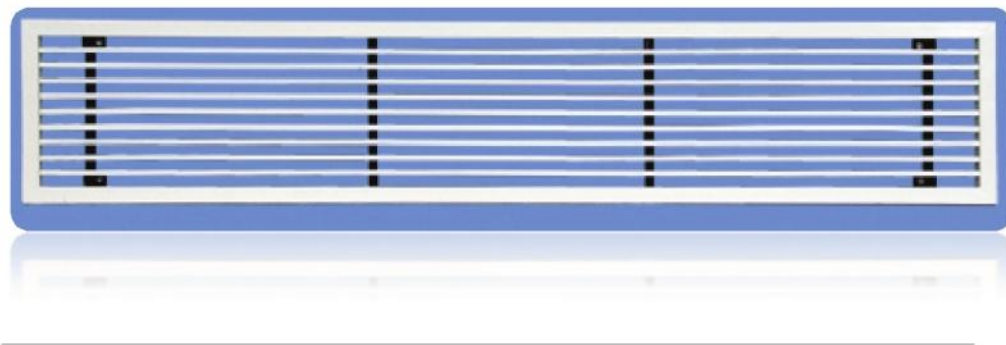
STANDARD SLOT SIZE 16 MM

NO OF SLOTS	1 SLOT	2 SLOT	3 SLOT	4 SLOT	5 SLOT	6 SLOT	7 SLOT	8 SLOT
NECK SIZE 'A' (MM)	37	70	105	139	174	208	243	277
FLANGE SIZE 'B' (MM)	73	107	142	176	211	245	280	316



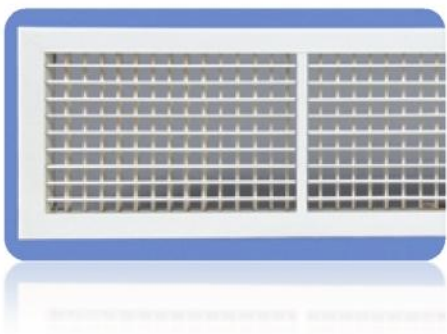
LINEAR BAR GRILLE

- ☞ Air supply or air return in Air-conditioning, Ventilating and Heating systems
- ☞ Overlapped in sidewall or in false ceiling by means of hidden fixing systems as well as for continuous grilles fixing by means of concealed bridge type fixing
- ☞ Extruded aluminum construction
- ☞ Frames with flat frontal face of 16mm / 20mm or 30mm and inner blades of 0° / 15° / 30° or 45° deflections
- ☞ Available with or without end flanges as well as for standard or non standard sizes
- ☞ Optional mitered corners available
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL colors



DOUBLE DEFLECTION SUPPLY AND RETURN GRILLE

- ☞ Air supply or air return in Air-conditioning, Ventilating and Heating systems
- ☞ Overlapped in sidewall or in false ceiling by means of hidden fixing systems
- ☞ Extruded aluminum construction
- ☞ Frames with flat frontal face of 30mm and individually adjustable blades to regulate the throw of air in the pitch or 20mm gap
- ☞ Available in front horizontal backside vertical bars, both side adjustable louvers
- ☞ All standard or non standard sizes, with or without collar dampers can be made
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL colors



ADJUSTABLE GRILLE



DOUBLE DEFLECTION FRONT FIXED GRILLE

SINGLE DEFLECTION SUPPLY AND RETURN GRILLE

- ☞ Air supply or air return in Air-conditioning, Ventilating and Heating systems
- ☞ Overlapped in sidewall or in false ceiling by means of hidden fixing systems
- ☞ Extruded aluminum construction
- ☞ Frames with flat frontal face of 30mm flanges and individually adjustable blades to regulate the throw of air in the pitch of 20mm gap
- ☞ Blades available horizontally or vertically in front side only
- ☞ Available in all standard or non-standard sizes with or without collar dampers
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL colors



DOOR GRILLE

NON VISION GRILLES

- ☞ Air supply or air return in Air-conditioning, Ventilating and Heating systems
- ☞ Fixing on the doors to transfer the air from one cabin to another cabin and also in the toilet doors fixing by means of visible screws
- ☞ Non Vision Grilles constructed in high grade aluminum extrusions with telescopic frames and 'V' shaped blades for air transfer.
- ☞ Available in standard or non-standard sizes
- ☞ Natural Aluminum, Anodized or Powder coated in standard RAL white colors



EXHAUST LOUVER

- ☞ Outdoor installation to take the air from the exterior or to expel the used air in Air-conditioning, Ventilating and Heating systems
- ☞ Louvers are designed to prevent rain penetration
- ☞ Overlapped in the wall by means of visible screws or side frames to fix in place
- ☞ Frame with flat frontal face of 30mm and inner fixed blades inclined at 45°.
- ☞ Mesh of 13mm x 13mm fixed on back side of the louver to avoid the entrance of foreign bodies into the installation
- ☞ Provides a neat external appearance to the building
- ☞ Available in standard or non-standard sizes
- ☞ Available in Natural Aluminum, Anodized or Powder coated in standard RAL colors



GRAVITY LOUVER (BACK DRAFT DAMPER)

- ☞ Air expelling in Air conditioning, Ventilating and Heating systems
- ☞ Overlapped in the wall by means of visible screws
- ☞ Frame with flat frontal face of 30 mm and inner leaves of aluminum sheets connected by means of metal screws with the frame
- ☞ Recommended along with exhaust fan installation louvers to open when fan is in operation at duct branches
- ☞ Designed to prevent rain penetration
- ☞ Standard or non-standard sizes also available
- ☞ Available in Natural Aluminum, Anodized or Powder coated in standard RAL colors





JET DIFFUSERS

- Jet diffusers are to be used for very high ceilings like Airports, Cinema theatres, Shopping malls, Exhibition halls and high roofing industries
- For ceiling mounting supply of large quantities of air or side wall installation with very long throws
- High air handling capacity with low noise level
- Fixing by means of visible metal screws on flanges in side throw or to be fixed directly with plenum boxes
- Frame and inner rings are made of high quality aluminum
- Jet diffusers are mounted in aluminum square plate covered by flanged border
- Diffusers can be adjustable upwards or downwards to achieve required throw as per site conditions
- Available in Natural Aluminum, Anodized or Powder coated in standard RAL colors



JET DIFFUSER



JET DIFFUSER WITH PANEL

DISC VALVE

- Air Valves are with adjustable core for Ventilating systems
- Frame and disc are made of galvanized steel
- Disc attached to the frame by means of threaded rod
- Air flow can be adjusted by regulating the Disc up or down
- Available in 100mm, 150 mm and 200 mm inner size
- Powder coated in standard RAL white colors



TERMINAL UNIT (VAV)

Variable Air Volume System is an established form of airside distribution, widely used in large centralized systems. This system is normally installed in applications whereby air conditioning is supplied to a large occupied zone with multiple interior zones requiring individual temperature controls. The variation in volume of air supplied to the individual zones depends on the room temperature requirements, detected by the zone thermostats. Coupled with frequency inverters, the Air Handling Units will be used to supply air to the entire occupied zone, with VAV boxes directly controlling the volume of air to be supplied to the various occupied zones.



VAV BYPASS – ROUND TYPE



VAV BYPASS – SQUARE TYPE

ACTUATOR

Two-position (on off) - reversible without spring return

Description

The LM 230A and LM24A damper motors are used for operation of dampers and VAV in air conditioning plants.

LM24: A two-position motor with one or two wire control.

LM230: A two-position motor with single wire control.



Belimo Actuators

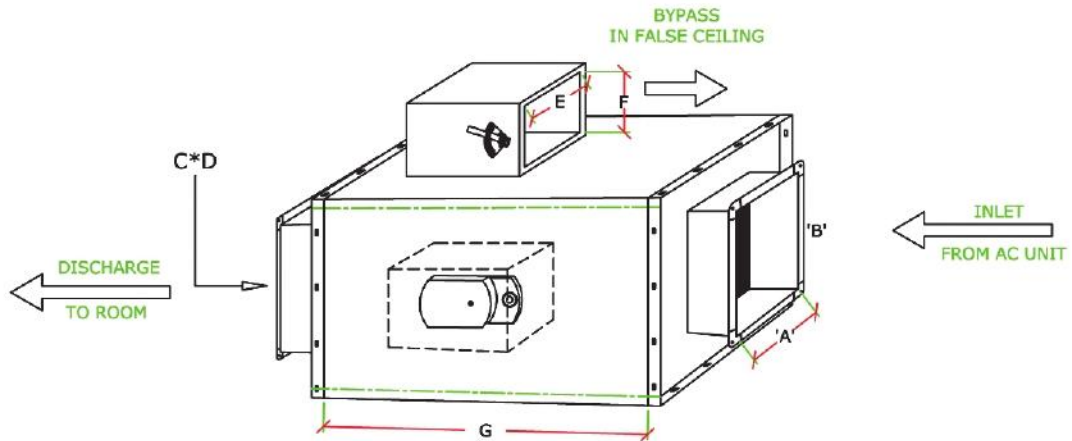
Design

Simple direct installation on the damper pivot axle using the universal clamp. Manual operation using the disconnection button. Adjustable angle of rotation with mechanical stop.

The motor has overload protection and does not require a limit switch as it stops automatically at preset stop positions.

TERMINAL UNIT (VAV)

BYPASS TYPE
SBB MODEL
SQUARE BENDED BYPASS



Bypass Terminal Units:

Designed to provide variable air volume supply when used with constant volume fan low and medium pressure packaged air handling systems or roof top units. Excess air is diverted through a bypass opening and into system return.

Standard Constructions:

- Casing: Double Skin Case 0.9/0.7 mm Galvanized sheet metal.
- Insulation: Internal duct lining, 15 mm 32 kgs / m³.

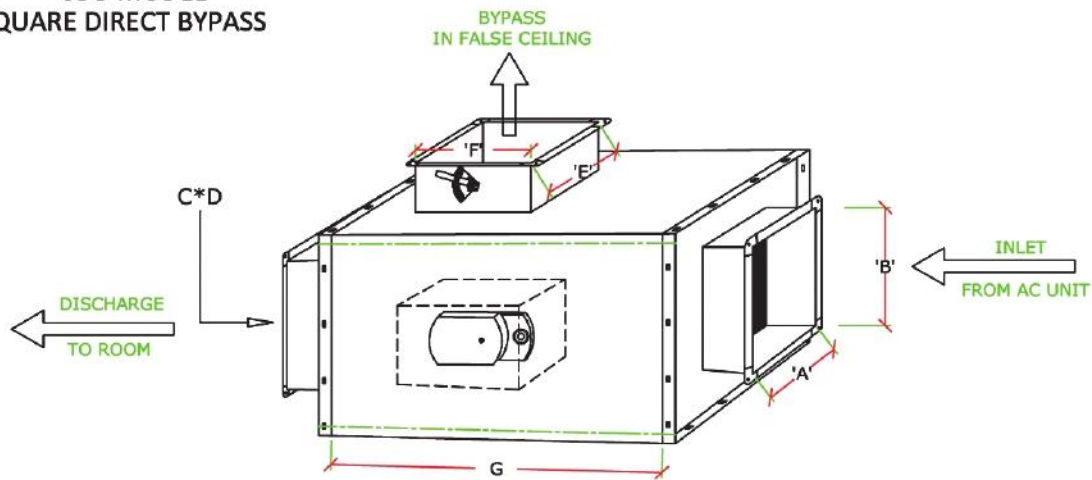
Actuator : Modulating or On/Off actuator

STANDARD SIZES

MODEL	CFM RANGE (MAX)	CONSTANT AIR SIDE CM		DISCHARGE SIDE CM		BYPASS SIDE CM		LENGTH CM	ON/OFF ACTUATOR	MODULATING ACTUATOR
		'A'	'B'	'C'	'D'	'E'	'F'			
SBB-250	200-250	30	25	30	25	A/2	B/2	50	LM 230 5 NM	AVAIL. UPON REQUEST
SBB-450	400-450	35	30	35	30	A/2	B/2			
SBB-650	600-650	40	35	40	35	A/2	B/2			
SBB-850	800-850	45	40	45	40	A/2	B/2	55		
SBB-1200	1100-1200	50	45	50	45	A/2	B/2			
SBB-1500	1400-1500	55	45	55	45	A/2	B/2			
SBB-2400	2300-2400	60	50	60	50	A/2	B/2	60		
SBB-3200	3100-3200	80	55	80	55	A/2	B/2			

TERMINAL UNIT (VAV)

BYPASS TYPE
SDB MODEL
SQUARE DIRECT BYPASS



Bypass Terminal Units:

Designed to provide variable air volume supply when used with constant volume fan low and medium pressure packaged air handling systems or roof top units. Excess air is diverted through a bypass opening and into system return.

Standard Constructions:

- Casing: Double Skin Case 0.9/0.7 mm Galvanized sheet metal.
- Insulation: Internal duct lining, 15 mm 32 kgs / m3.

Actuator : Modulating or On/Off actuator

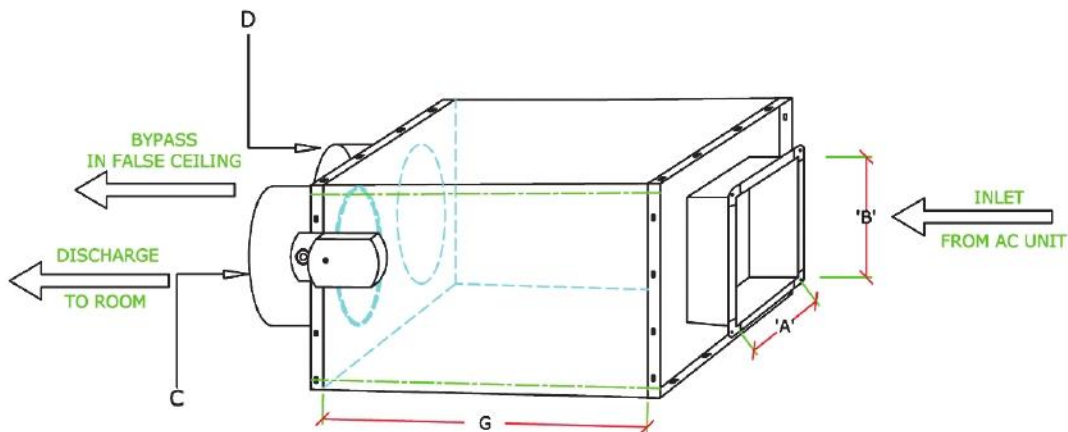
STANDARD SIZES

MODEL	CFM RANGE (MAX)	CONSTANT AIR SIDE CM		DISCHARGE SIDE CM		BYPASS SIDE CM		LENGTH CM	ON/OFF ACTUATOR	MODULATING ACTUATOR
		'A'	'B'	'C'	'D'	'E'	'F'			
SDB-250	200-250	30	25	30	25	A/2	B/2	50	LM 230 5 NM	AVAIL. UPON REQUEST
SDB-450	400-450	35	30	35	30	A/2	B/2			
SDB-650	600-650	40	35	40	35	A/2	B/2			
SDB-850	800-850	45	40	45	40	A/2	B/2	55		
SDB-1200	1100-1200	50	45	50	45	A/2	B/2			
SDB-1500	1400-1500	55	45	55	45	A/2	B/2			
SDB-2400	2300-2400	60	50	60	50	A/2	B/2	60		
SDB-3200	3100-3200	80	55	80	55	A/2	B/2			



TERMINAL UNIT (VAV)

BYPASS TYPE
CDB MODEL
CIRCULAR DIRECT BYPASS



Bypass Terminal Units:

Designed to provide variable air volume supply when used with constant volume fan low and medium pressure packaged air handling systems or roof top units. Excess air is diverted through a bypass opening and into system return.

Standard Constructions:

- Casing: Double Skin Case 0.9/0.7 mm Galvanized sheet metal.
- Insulation: Internal duct lining, 15 mm 32 kgs / m3.
- Discharge: Circular for easy connection to Ceiling Diffusers
- Bypass: Circular

Actuator : Modulating or On/Off actuator

STANDARD SIZES

MODEL	CFM RANGE (MAX)	CONSTANT AIR SIDE CM		DISCHARGE SIDE INCH	BYPASS SIDE INCH	LENGTH CM	ON/OFF ACTUATOR	MODULATING ACTUATOR
		'A'	'B'	'C'	'D'			
CDB-250	200-250	30	25	8"	8"	50	LM 230 5 NM	AVAIL- UPON REQUEST
CDB-450	400-450	35	30	10"	10"			
CDB-650	600-650	40	35	12"	12"			
CDB-850	800-850	45	40	14"	14"			

ACOUSTIC LOUVER

AIRTECHS' Acoustical Louvers are sound baffle designed to allow airflow through ventilation openings while reducing the radiation of noise.

Typical applications are our acoustic louvers used in conjunction with machine sound enclosures, sound barrier walls and sound control rooms to allow silenced airflow. They use acoustic grade glass fiber as the principle sound-absorbing mechanism.

Acoustical splitters, sometimes called vanes or splitter vanes, are used for mid to higher frequency sound attenuation. Perforated metal protects the glass fiber from erosion by the airflow.

The splitters vary in quantity and thickness, and air passages also vary in width. They are aerodynamically shaped to minimize pressure drop. Lips are designed in to the splitters to protect against weather elements.



ACOUSTIC LOUVER MODEL [GIAL 12](#), [GIAL 08](#) AND [GIAL 06](#)

CONSTRUCTION GALVANIZED STEEL (OPTIONAL ALUMINUM)

ACOUSTIC MATERIAL: FIBERGLASS 45-48 KG/M²

BLADES THICKNESS: 2 MM

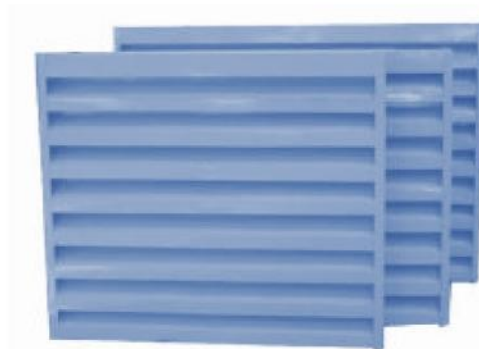
FRAME THICKNESS: 2 MM

LOUVER DEPTH:

[GIAL12](#): 12"

[GIAL08](#): 8"

[GIAL06](#): 6"



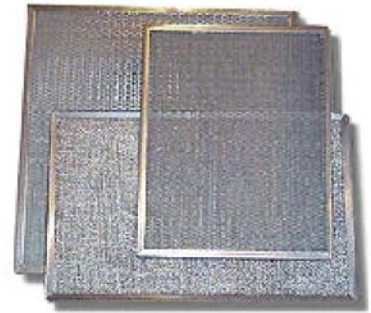
	GIAL12	GIAL08	GIAL06
LOUVER DEPTH	12"	8"	6"
FREE AREA PER 120X120 CM	3.66 SQ.FT (0.34 M ²)	4.28 SQ.FT (0.40 M ²)	4.89 SQ.FT (0.45 M ²)
PERCENT OF FREE AREA	23 %	27 %	31 %
BEGINNING PT. OF WATER PENETRATION	960 FPM (4.88 M/S)	887 FPM (4.51 M/S)	799 FPM (4.06 M/S)
FLOW RATE	3500 CFM (1.66 M ³ /S)	3800 CFM (1.77 M ³ /S)	3900 CFM (1.84 M ³ /S)
PRESSURE DROP	0.094 IN. (0.023 kPa)	0.074 IN. (0.018 kPa)	0.060 IN. (0.015 kPa)
ACOUSTIC MATERIAL	FG 45-48 KG/M ²	FG 45-48 KG/M ²	FG 45-48 KG/M ²
BLADE THICK	2 MM	2 MM	2 MM
FRAME THICK	2 MM	2 MM	2 MM



AIR FILTER

Standard Construction:

- Aluminum Frame
- Aluminum Washable Filter Screen
- Available in all requested sizes & thicknesses



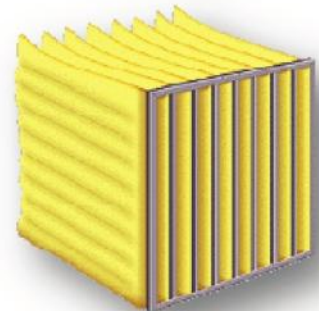
GREASE FILTER

- Designed for kitchen exhaust hoods
- Layers of baffles prevent flames from penetrating through the filter
- Properly located drain holes allow grease to drain into a collection trough
- Aluminum, Galvanized or Stainless Steel



BAG FILTER

- Manufactured to the highest standards for performance and stability
- Certified ultra-fine glass fiber media
- Two efficiencies: 80-85%, and 90-95%
- Rust-resistant all-metal header
- Balanced pocket configuration designed to maximize dust holding capacity while reducing resistance to airflow
- Each stitch is sealed with a special adhesive to prevent leakage and media break-off
- Perfect for any application requiring a higher level of air filtration



ACCESS DOORS

The **AIRTECH** range of duct access doors has been specifically created to allow easy and speedy access to fire dampers, coils, filters, controls and other air conditioning and ventilating equipment mounted inside ductwork.



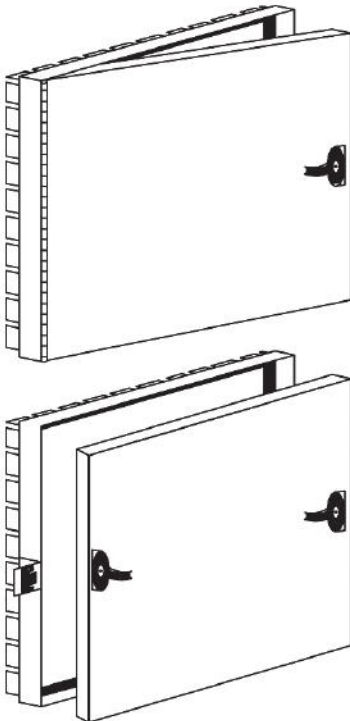
- Low leakage design
- Suitable for use in High, Medium or Low Pressure Systems
- Standard construction is galvanized steel
- Standard mounting for externally Insulated, Internally insulated or plain metal ducting; also suitable for duct board systems
- Simple, progressive, cam lock operation
- 1" thermal and acoustic insulation
- Choice of four models



Product:
Access Doors

Product Codes:

Hinged Access Door (insulated): HAD 400
 Removable Access Door (insulated): RAD 401
 Hinged/Single skin AD(uninsulated): HSAD 402
 Removable/Single skin AD(uninsulated): RSAD 403



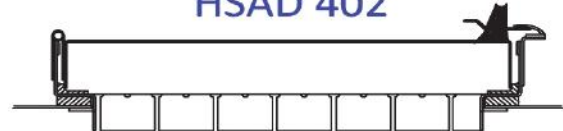
HAD 400



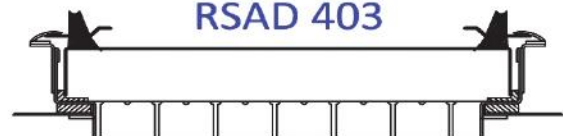
RAD 401



HSAD 402



RSAD 403



Standard Construction

Frame: 24 Gge galvanized steel with seal, notched

Door: 24 Gge galvanized steel, double or single skin, insulated or uninsulated as per model #.

Insulation: 25 mm fiberglass

Hinges: Continuous piano type

Locks: dyn-air, heavy stamped steel part- zinc plated, HAD400 over 16" have 2 locks, RAD401 over 16" have 4 locks, HSAD402 over 16" have 2 locks, RSAD403 over 16" have 4 locks

Minimum Size: 10 x 10 cm(4"x4")

Maximum Size: 60 x 60 cm(24"x24")

Installation: Cut hole 28 mm (1 1/8 ") smaller than door size

SAND TRAP LOUVERS (STL)

The STL is used to lower the dust loading of conventional filtration as it is designed to separate large size sand particles at low to medium speeds, it is also fitted with a bird screen mesh made of galvanized steel to protect against undesired objects. Insect screen of stainless steel can be installed as optional.



Standard Dimensions
Any combination of A x B.

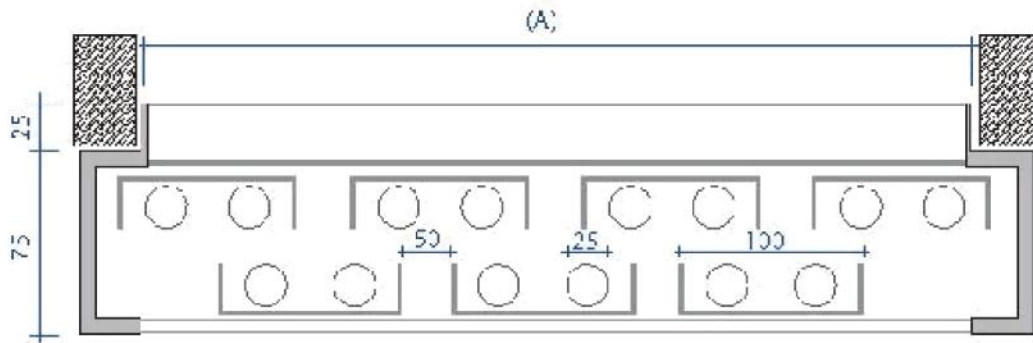
The STL is a self emptying system, it has a set of holes at the bottom face of the casing to discharge separated sand particles.

The STL is made of aluminum sections. It is composed of two sets of inverted U channels, mounted vertically on two opposite rows.

Aluminum washable filter (optional) can be installed on the neck of the louver. Filter is 25mm thick.

A	B
450	450
600	600
750	750
900	900
1050	1050
1200	1200
1350	1350
1500	1500
1650	1650
1800	1800
1950	1950

Other size B, available on request by step of 50 mm.



Test conducted on similar equipment indicated a typical efficiency of 80% on AC coarse (20 - 200 micron) and 50% on AC fine test duct (1 to 70 microns).

Standard Free area ratio = 0.33

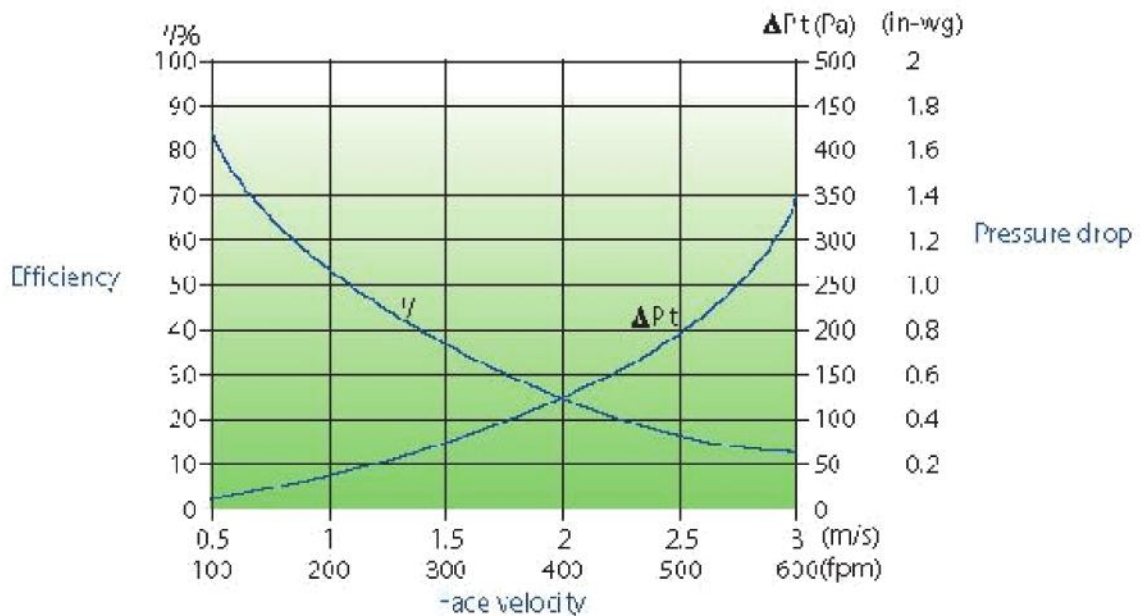
(Standard dimensions are given above)

To calculate the air flow rate:

$$\text{CFM} = \frac{0.33 \times A(\text{in}) \times B(\text{in}) \times \text{face velocity (fpm)}}{144}$$

$$\text{L/S} = \frac{0.33 \times A(\text{mm}) \times B(\text{mm}) \times \text{face velocity (m/s)}}{1000}$$

For normal operation ordinary conditions, sand trap louvers used for natural ventilation purpose are rated at a recommended Face velocity of 1.0 m/s. Different sand trap louver arrangements may be provided to give other Free Area ratio as per customer requirement.



CARRIER PRODUCTS

When sophisticated cooling consumers across the world want to improve their home health, energy efficiency and comfort, they turn to innovative Carrier products and systems. Browse through **CARRIER** wide selection of Air Conditions products, or let the experts at **CARRIER** help you customize the perfect solution for you.

CARRIER Air conditioners are the right choice to ensure Performance, comfort and a clean indoor environment. **CARRIER** systems deliver high static pressure with low energy consumption.

Quality-first is the target of all products made by **CARRIER**, wide range of these products is available:



Ducted split unit – indoor



Cassette type unit



Ducted split unit – outdoor



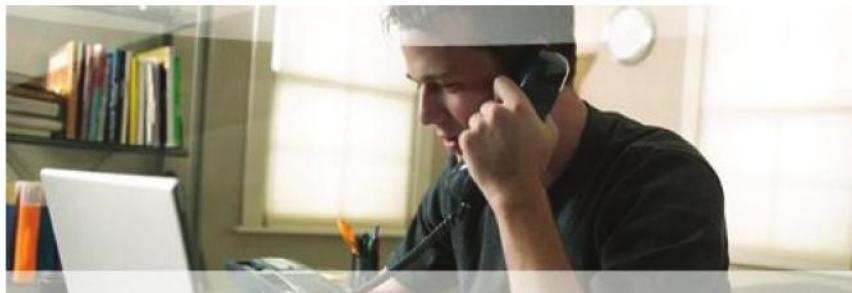
Wall mounted split unit



Rooftop package unit



Chilled water system



When you choose highly engineered Carrier products for your home comfort needs, you gain an expert heating and cooling partner for the life of your system.



turn to the experts™





DUCT ACCESSORIES



Insulated Flexible Duct



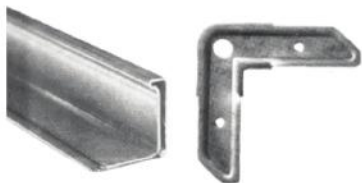
Un-insulated Flexible Duct



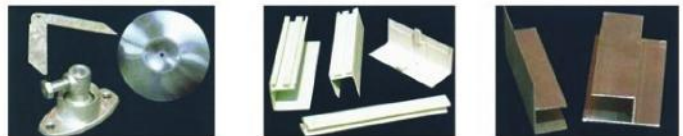
Duct Joints



Duct Connectors



Duct Flanges and Corners



Pre-insulated Ducts Joints & Accessories

Natural Circulation
Solar Energy Systems

TSM L

- LUXURY
- LONGEVITY
- LEGIONELLA FREE
- LASER WELDING
- LOW COST
- LIGHT WEIGHT
- LOW PROFILE, HIGH EFFICIENCY

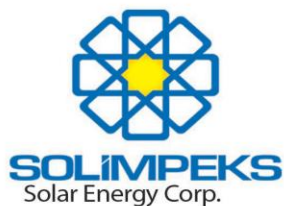
Efficient and Aesthetic Systems



30%
more efficient than
conventional systems



30 years of experience, exports in 60 countries, innovative products
One of the world's leading companies in its sector



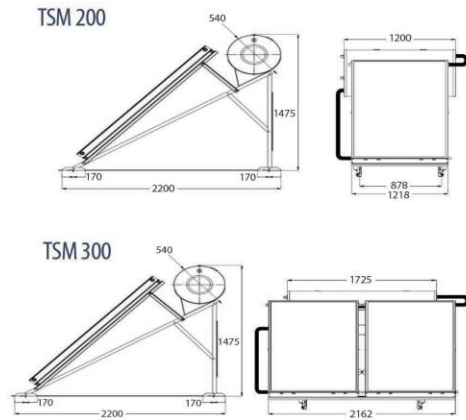


Natural Circulation Solar Energy Systems

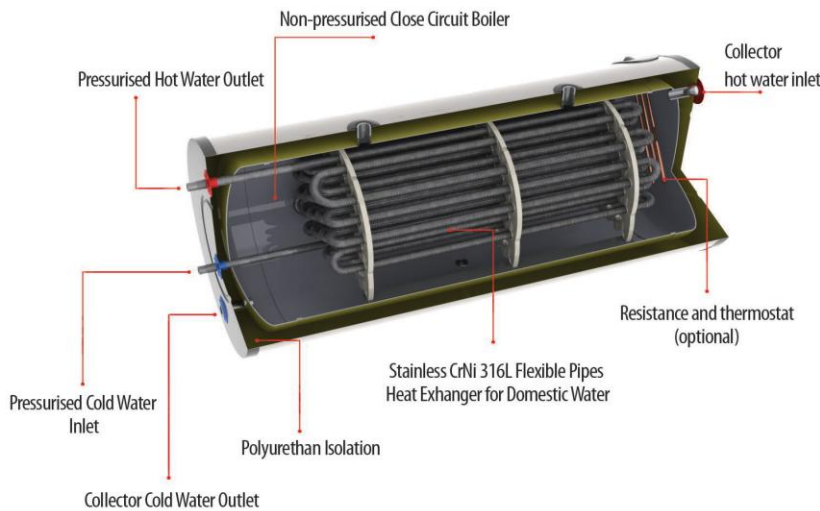
TSM

Efficient and Aesthetic Systems

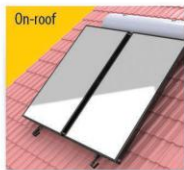
- LUXURY
- LONGEVITY
- LEGIONELLA FREE
- LASER WELDING
- LOW COST
- LIGHT WEIGHT
- LOW PROFILE, HIGH EFFICIENCY



	Specification	TSM 200	TSM 300
Boiler	Output Capacity	250 lt / day	400 lt / day
	Weight	65 kg	82 kg
Collector	Heat Exchanger	CrNi 316L Stainless Steel	CrNi 316L Stainless Steel
	Insulation	50 mm 40 kg/m ³ Polyurethan	50 mm 40 kg/m ³ Polyurethan
	Collector	Wunder ALS 2510 (2,5 m ²)	Wunder ALS 2108 (2,1 m ² x 2)
	Absorber Material	Almeco-Tinox Highly Selective Aluminum	Almeco-Tinox Highly Selective Aluminum
	Piping Material	Copper	Copper
	Welding	Laser Welding	Laser Welding
	Sealing Material	EPDM & Silicone & Aluminum Frame	EPDM & Silicone & Aluminum Frame
	Insulation Material	Rock Wool 0,037 W/ (mK)	Rock Wool 0,037 W/ (mK)
	Weight	42,6 kg	37,6 kg x 2
	Mounting	Mounting	Flat Roof, On Roof
Mounting Material		Electrostatic Painted Iron & Aluminum Profile	Electrostatic Painted Iron & Aluminum Profile



- ### Features
- Tested & Solarkeymark Certified Acc. to EN 12976-1:2
 - Closed Loop, Indirect Thermosiphon System
 - No need magnesium anode.
 - Maintenance free
 - Hygienic, rust free, light solar tank
 - Unpressurised tank, pressurized water
 - Easy to install for flat and pitched roofs
 - Hidden tank behind panels
 - 7 years guarantee



MAJOR JOBS IN U.A.E.

Shaikh Zaid Mosque – Fujairah

Duct Works



Novotel IBIS Hotel - Fujairah



EMIRI DIWAN OF H.H FUJAIRAH GOVERNER
Contractor: **FNCT.**



H.H SHEIKH MOHAMED BIN SALEH BIN MOHAMED AL SHARQI PALACE
Contractor: **FNCT.**



H.H SHEIKH SULTAN BIN SALEH BIN MOHAMED AL SHARQI PALACE
Contractor: **FNCT.**



**G+7 MULTI STORY BLDG/ H.H SHEIKH SALEH BIN
HAMAD AL SHARQI / DUBAI**

Contractor: **FNCT.**



**B+G+11 MULTI STORY BLDG./ ABNAA
SULTAN MOH'D AHMAD BUN SULAIMAN**

Contractor: **BIN ZAYED CONT.**



2B+G+M+19 BLDG./ WELFARE ASSOCIATION

Contractor: **SKYLINE**



G+15 BLDG. / SAIF ALSALAMI

Contractor: **FNCT**



G+7 (FORTUNE HOTEL)
Contractor: **ISLAMIC FOUNDATION**



FNCT OFFICES
Contractor: **FNCT**



DU-FUJAIRAH CABLE LANDING STATION
Contractor: **AMANA STEEL**



TEXTILE FACORY-OFFICE BLOCKS
Contractor: **BAUER**



G+12 (AL KA'ABI)
Contractor: **SKYLINE**



G+12 (AL KAITOOB)
Contractor: **EAST COAST**



G+10 MULTI STOREY BLDG
Contractor: **ASIAN CONTRACTING**



G+11 MULTI STOREY BLDG
Contractor: **BIN ZAYED CONT.**





www.naseemac.com



turn to the experts™



41

Tel.: +971 9 2229262
Fax: +971 9 2220488
P.O. Box 3507, Fujairah
United Arab Emirates
E-mail: naseemac@naseemac.com