



فصول الرياض  
RIYADH SEASONS

# مصنع فصول الرياض

## FACTORY RIYADH SEASONS



رؤية  
2030  
المملكة العربية السعودية  
KINGDOM OF SAUDI ARABIA

[www.fosoulriyadh.com](http://www.fosoulriyadh.com)



## INTRODUCTION

### We the Riyadh season A/C UNITS INDUSTRIES

L.L.C. one of the leading and very reliable firm hoping to establish a business relation with all the esteem organizations all over GCC.

We are the manufacturers of : Grills ( Linear Bar Grills, Slot Grills ), Square, Rectangular & Round Diffusers , Volume Control Damper (VCD), Fire Damper (FD), Exhaust Air Louver(EAL), Non Return Damper(NRD), VAV Boxes, Sound Attenuator (SA), Sand Trap Louver (STL), Aluminum Filters & GI / PI Ducting .

equipped with all the latest Machines and Dies required and has our own powder coating unit within the factory which makes us able to give you the delivery at a challenging time .

Our Production team consists of well trained and highly qualified employees ensure best quality and high reliability products.

Our dealings and relation with the various consultants and contractors are very good. Our good relationship with them helps us to complete the projects successfully.

Our company's goal is customer delight. We believe in giving first quality service all the time. If you have any inquiries, please don't hesitate to contact us. Assuring you our best attention and co-operation all time.

## MANAGEMENT

## List of products available

- Supply & Return Air Grills
- Supply & Return Linear Bar Grills
- Square & Rectangular Ceiling Diffusers
- Round Ceiling Diffusers
- Linear Slot Diffusers
- Door Grills
- Sand Trap Louvers
- Exhaust Air Louvers
- Volume Control Dampers
- Fire Dampers
- Sound Attenuators
- VAV's
- Egg Crate Grill
- Aluminum Filters
- GI & PI Ducting



## Double Deflection Air Grill

### Product Description:

Riyadh Season double deflection grill with an opposed blade damper, providing air deflection in both horizontal and vertical planes.

Frame and blades are extruded aluminum alloy 6063 T6 heat treatment and are polyester powder coated with a white finish.



The frame has a typical wall thickness of 1/16" and is separated from the blades with PVC bushing. This method of assembly eliminates corrosion and vibration.

The frame mounting holes are dimpled, allowing for a counter — suck fastener Head appearance.

All blades are air foil in design, individually adjustable and spaced 3/4" on center. Deflection of blades are easily set without use of special tools.

## Linear Bar Grills Product Description:



Riyadh Season Linear Bar is a side wall grill with a combination of fixed profile front horizontal blades and optional adjustable vertical rear blades.

With its high capacity as well as its pleasant aesthetic appearance Linear Bar Grills & Registers are commonly used along sides of relatively large spaces with double void areas such as Domes, open lobbies, Malls, Atriums, and Buildings Entrance, where both aesthetics and high capacity air volumes are required.

For this purpose LBG/LBR can be supplied in both straight and curved shapes to suite the interior geometry of the served space.

Riyadh Season Linear Bars can also be used as conventional supply and return grills or combinations.

Therefore, blind dummy segments can be ordered to integrate the decorative outlook of the whole wall.

Nminal Width(mm)	CFMWidth(mm)	NC	Nminal Width(mm)	CFM	NC
50	60-300	< 20	150	250-1100	< 20
75	90-550	< 20	175	300-1200	< 20
100	150-700	< 20	200	350-1300	< 20
125	210-950	< 20	250	420-1450	< 20

## SQUARE CEILING DIFFUSERS

### Product Description:

Riyadh Season Square Ceiling Diffuser with multiple air flow patterns and with volume control damper.

The frame and blades are extruded aluminum alloy 6063 T6 heat treatment and are polyester powder coated with a white finish



The frame and blades are having typical wall thickness of 1/16". The inner core of the diffuser is fully removable for easy installation.

It is held in place with four machine screws and two spring steel clips which together center the core in the frame.

The ceiling diffuser projects 3/16" from the mounting surface. The unit size increases in 3 inches increments beginning with 6" x 6" as the smallest available.

### Listed Sizes Square Diffuser & Round Diffusers

Square Diffuser			Round Diffusers		
Size ( inch)	Size (mm)	CFM Range	Size ( inch)	Size (mm)	CFM Range
6 x 6	150 x 150	50 - 220	6"Dia	150	50-300
9 x 9	225 x 225	100 - 510	8"Dia	200	100-550
12 x 12	300 x 300	200 - 900	10"Dia	250	150-850
15 x 15		300 - 1400	12"Dia	300	200-1200
18 x 18	450 x 450	450 - 2100	14"Dia	350	300-1700
21 x 21	525 x 525	600 - 2800	16"Dia	400	400-2200
24 x 24	600 x 600	800 - 3500	18"Dia	450	550-2800

## ROUND CEILING DIFFUSERS

### Product Description:



Supply or exhaust round ceiling diffusers with fully adjustable cores to provide horizontal or vertical air pattern.

The “UP” position of the core provides vertical throw and “DOWN” position provides horizontal throw.

Expanded cones feature gives a high degree of mixing of primary and secondary air that provides excellent air distribution and efficiency.

Removable inner core permits easy installation and access to duct for aintenance.

# LINEAR SLOT DIFFUSER

## Product Description:



Frame and curved deflection blades are made of extruded aluminum alloy 6063 T6 heat treatment.

Available with Hit and Miss Damper of aluminum strip to control air flow rate without affecting the air flow patterns.

180° fully adjustable air flow patterns by means of two air deflector blades per slot.

Both Deflector Blades and Hit & Miss Damper are powder coated with black color.

Available in 1 to 8 slots.

Standard slot width is 1/2" (16mm), 3/4"(20mm) optional.

### Listed Sizes

No.of Slote	1	2	3	4	5	6	7	8
Neck Size(mm)	40	80	120	150	190	230	265	305
Out-Out (mm)	76	115	152	190	230	266	305	345
CFM/M	30-320	65-410	95-450	130-650	160-800	190-950	230-1100	250-1300



## Door Grill Product Description:



The frame and blades are extruded aluminum alloy 6063 T6 heat treatment and are polyester powder coated with white finish.

The chevron style blades are mounted in the PVC track and are spaced 1/2" on center.

The frame adjusts to suit door thickness from 1-3/8 to 1-7/8 inches.

Standard finish is white color for frame and blades.

Painted under an electrostatic polyester powder coated system. Other colors available on request. The polyester powders of highest quality are used to enhance the appearance of the units.

Suitable for doors, walls or partitions where a sight proof transfer grill is required.

## SAND TRAP LOUVER

### Product Description:

Riyadh seasons manufactures Sand Trap Louvers for fresh air intake in HVAC systems, which are designs to separate large size sand particles at low air velocities thus avoiding excessive dust loading on conventional secondary stage filters.



They give performance for air filtration and moderate pressure drops at low air velocities.

The STL is made of aluminum sections. It's 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 25 mm thick and higher thickness is available in optional

### Effective Pressure Areas Sq.mtr

W x H(mm)	300	450	600	750	900	1050
300	0.028	0.043	0.059	0.073	0.089	0.104
450	0.043	0.066	0.089	0.112	0.134	0.157
600	0.059	0.089	0.119	0.15	0.181	0.258
750	0.073	0.112	0.150	0.118	0.226	0.273
900	0.089	0.134	0.181	0.226	0.273	0.318
1050	0.096	0.145	0.196	0.246	0.296	0.345

## Exhaust Air Louver Product Description:



The frame and blades is extruded aluminum alloy and are polyester powder coated with a white finish.

The frame and blades are having a typical wall thickness of 1/16". The blades are spaced 3" on center and are set at 45° to the horizontal.

An expanded aluminum bird screen is attached to the interior face of the louver.

Standard finish is white color for frame and blades. Painted under electrostatic polyester powder coated system. Other colors available on request. The polyester powder of highest quality are used to enhance the appearance of the units.

## VOLUME CONTROL DAMPER

### Product Description:

Riyadh seasons Series volume control dampers are square and rectangular type with both parallel blade opposed blade operation, (Single skin or Double skin blade construction).

To suit for high performance applications where dampers are subjected to face quiet, efficient, rattle free and heavy duty operation.

The standard construction is suitable for use up to a maximum pressure of 3000 pa.

The square and rectangular type VCDs are designed for handling maximum air capacities at minimum pressure drop.

Frame: Volume Control Damper frame is made of Galvanized sheet steel of thickness 1.2 mm\*(18g), to provide two continuous external flanges which are spaced 130 mm apart.

All welded joints are protected by rust proof or epoxy paint coating.



## **FIRE DAMPERS**

### **Product Description:**



Riyadh seasons manufactures Fire Dampers, which are designed to stop the spread of fire by means localizing areas of fire zones to prevent the distribution of fire through air conditioning duct or wall in central HVAC systems. These fire dampers offer and effective fire barrier by maintaining integrity in a fire situation And are rated up to two to four hours rating, combined with low leakage characteristics.

Riyadh seasons Fire Dampers are suitable for installation in sheet metal ductwork, or fire walls, or ceiling slabs made from concrete or brick work..

Riyadh seasons Fire Dampers are available in variety different casing all fully welded. Square & Rectangular, Round & Oval and in both in Curtain and Multi blade for duct / wall fixing with any sizing capability with in minimum dimentions.

Riyadh seasons Motorized smoke dampers are constructed of galvanized steel sheet, rectangular shaped, high strength structure, and flange type. Linkage designed to be outside of the air stream (concealed in frame).

## FIRE DAMPERS

### Product Description:



Blade edge seals are silicon edge type, mechanically locked into blade edges. Jamb seals are flexible stainless steel sheet compression type to further ensure low leakage of air/smoke .it is 3 hour fire rating and classification leakage as well .classification (air/smoke leakage shall be not greater than 10 CFM/Ft2 at pressure difference 1" in wg, or 20 CFM/Ft2 at pressure deference 4" in wg.)

Blade(s) are hold at full open position by the electric actuator, spring return type.

Blades will be automatically closed and locked within 20 seconds during fire conditions, smoke detection or power failure through the actuator closure springs. The electric actuators, spring return type wiring and terminals are also completely equipped.

Suitable for mounting to duct lines installed through openings in wall, partitions or floors to prevent fire/smoke transfer through the openings in the wall, partitions or floors.

## SOUND ATTENUATOR

### Product Description:

All Fans / Impeller used in Air Conditioning system produce noise, relevant to the amount of work they do to move the air, much of the noise generated by the fluctuation of radiated pressure and these pressure waves are distributed approximately equally in all directions, causing “duct born noise” and “breakout” or “flanking noise”. Our silencer is the reliable answer for these noise problems.



Our sound attenuator (Silencer) is carefully designed to combat noise problems. Galvanized steel outer casing of the silencer is designed to “HVAC: standard, perforated baffles are filled with an odourless, incombustible, vermin proof, moisture proof inorganic sound absorbing material. Primary function of this unit is to reduce noise, operated smoothly efficiently and trouble free service.

Length (inches)		Static Pressure Drop (in.w.g.)									
36		0.04	0.08	0.13	0.20	0.27	0.34	0.43	0.52	0.61	0.67
60		0.04	0.11	0.16	0.26	0.34	0.44	0.54	0.65	0.78	0.84
84		0.06	0.12	0.18	0.29	0.37	0.47	0.59	0.71	0.85	0.92
Size W x H (in)	Face Area (Sq.ft)	Face Velocity (fpm)									
		650	900	1100	1400	1600	1800	2000	2200	2400	2500
		Air Volume (cfm)									
12 x 6	0.5	325	450	550	700	800	900	1000	1100	1200	1250
12 x 12	1.0	650	900	1100	1400	1600	1800	2000	2200	2400	2500
12 x 18	1.5	975	1350	1650	2100	2400	2700	3000	3300	3600	3750
12 x 24	2.0	1300	1800	2200	2800	3200	3600	4000	4400	4800	5000
12 x 30	2.5	1625	2250	2750	3500	4000	4500	5000	5500	6000	6250
24 x 18	3.0	1950	2700	3300	4200	4800	5400	6000	6600	7200	7500
24 x 24	4.0	2600	3600	4400	5600	6400	7200	8000	8800	9600	10000
24 x 30	5.0	3250	4500	5500	7000	8000	9000	10000	11000	12000	12500
24 x 36	6.0	3900	5400	6600	8400	9600	10800	12000	13200	14400	15000



## VARIABLE AIR VOLUME {VAV}

### Product Description:



Bypass terminal units handle constant supply of primary air through its inlet and uses a diverting damper to bypass part of supply air into the plenum return. The damper is directly controlled by a room thermostat on the occupied space to provide the volume of air required to meet the thermal demand. The pressure requirement through the supply air path to the conditioned space is set with an inlet balancing damper.

A Second manual balancing damper in the bypass is field adjusted to match the resistance in the discharge duct in order to maintain minimum air flow to the space. Although variable air volume to the space in operation varies, total air flow of the fan remains constant, so the fan power and associated energy cost is not reduced. Therefore bypass units are not energy efficient as compared to VAV system.

Internal walls of VAV are lined with 13 mm thick, density 24 kg/m<sup>3</sup> acoustic liner acoustic liner made of mineral fiber & and edges are coated with adhesive or concealed with metal stiffener to seal loose fiber.



## EGG CRATE GRILL

### Product Description:



Riyadh seasons egg crate grills either ceiling mounted or wall mounted air terminal devices used as exhaust air grills for domestic and industrial application.

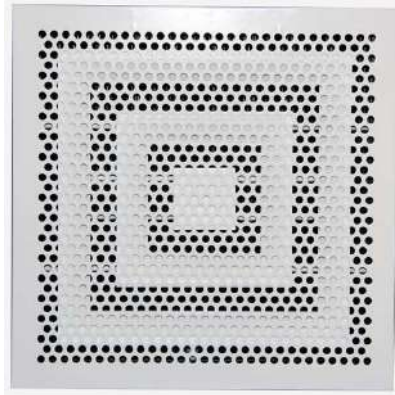
The relatively large effective area of the egg crate grill permits better performance for return air application. The effective area is 90% of the nominal area.

This generates low pressure drop and low noise level. The core of the egg crate grill is made of aluminum strips assembled to form equally distributed and sized square cells.

The frame of the egg crate grill is made of extruded aluminum bars. Insulating gasket (optional) is fixed around the back of the frame to prevent infiltration between the frame and the wall.

## PERFORATED GRILL

### Product Description:



The perforated air grill is a ceiling / wall air terminal device that is composed of perforated sheet, fixed to a frame.

The perforated sheet is made of heavy GI, powder coated to RAL 9010 or 9016 as standard. Other colors are available as per decorator request.

The frame is made of extruded aluminum bars.

Fixing option is concealed spring fixing (CSF) for wall mounting, or visible screw fixing (VSF) for ceiling mounting .

Perforated face has (3/16) inch diameter holes on (1/4) inch staggered centers.

The perforated air grills are used in cooling, heating and air ventilation. They are usually used as returned grills.

# DECORATIVE GRILLS & DIFFUSERS

## Decorative Grill & Diffusers



The decorative grills & diffusers is a ceiling and wall air terminals device that is composed of decorative sheet, fixed to a frame.

The decorative sheet is made of a heavy gauge GI, or aluminum, powder coated to RAL 9016 or 9010 as standard, other colors are available as per the decorator request.

The Frame is made of extruded aluminum. Fixing option is concealed spring fixing for wall mounting, or visible screw fixing for ceiling mounting.

These decorative grills are most probably used in villas, mosques & luxury palaces etc.

# ISO Certificates



## CERTIFICATE OF REGISTRATION



This is to certify that:

**FESOUL AL-RIYADH COMPANY AND BRANCHES FOR TRADE**  
(ICR: 1010186451)

2880-UMAR BIN AL-KHATTAB RD - AS SAFA, UNIT NO.2, 12954,  
AR RIYADH, KINGDOM OF SAUDI ARABIA.

the management system of the above organisation has been assessed and found to comply with the requirements of the management system standards detailed below:

**STANDARD**

**ISO 14001:2015**  
Environmental Management System

**Certification Scope**

Building Finishes, Service Orderers Work and Installation, Painting and Coating Works for Interior and Exterior Building, Aluminium Manufacturing Workshops, Manufacture of Air Conditioning Ducts and Accessories (Ducts), Manufacture of Air Conditioning Duct Extensions, Repair, Sale of Security and Safety Systems, Including Scaffolds, Safety, etc., Rigging Trade of Scaffolding, Firefighting and Industrial Security Equipment, Including Filling Fire Extinguishers Without Carrying Out Transportation Operations, Installing and Repairing Fire Alarm Devices and Equipment, Installing and Maintaining Security Systems, Installation, Maintenance and Repair of Refrigeration and Air Conditioning Systems, Gas Piping Installation, Maintenance and Repair, Fire Pipe Installation, Maintenance and Repair, Installing, Servicing, Maintaining and Repairing Air Conditioning Ducts, Installing and Maintaining Fire Extinguishers and Equipment.

Certificate Member	Date of Registration
XXXX	25-03-2023
Client ID	Valid From
00101	25-03-2023
Revision No.	Valid Until
01	25-03-2025




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**STANDARD**

**ISO 45001:2018**  
Occupational Health & Safety Management System

**Certification Scope**

Building Finishes, Service Orderers Work and Installation, Painting and Coating Works for Interior and Exterior Building, Aluminium Manufacturing Workshops, Manufacture of Air Conditioning Ducts and Accessories (Ducts), Manufacture of Air Conditioning Duct Extensions, Repair, Sale of Security and Safety Systems, Including Scaffolds, Safety, etc., Rigging Trade of Scaffolding, Firefighting and Industrial Security Equipment, Including Filling Fire Extinguishers Without Carrying Out Transportation Operations, Installing and Repairing Fire Alarm Devices and Equipment, Installing and Maintaining Security Systems, Installation, Maintenance and Repair of Refrigeration and Air Conditioning Systems, Gas Piping Installation, Maintenance and Repair, Fire Pipe Installation, Maintenance and Repair, Installing, Servicing, Maintaining and Repairing Air Conditioning Ducts, Installing and Maintaining Fire Extinguishers and Equipment.

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**STANDARD**

**ISO 9001:2015**  
Quality Management System

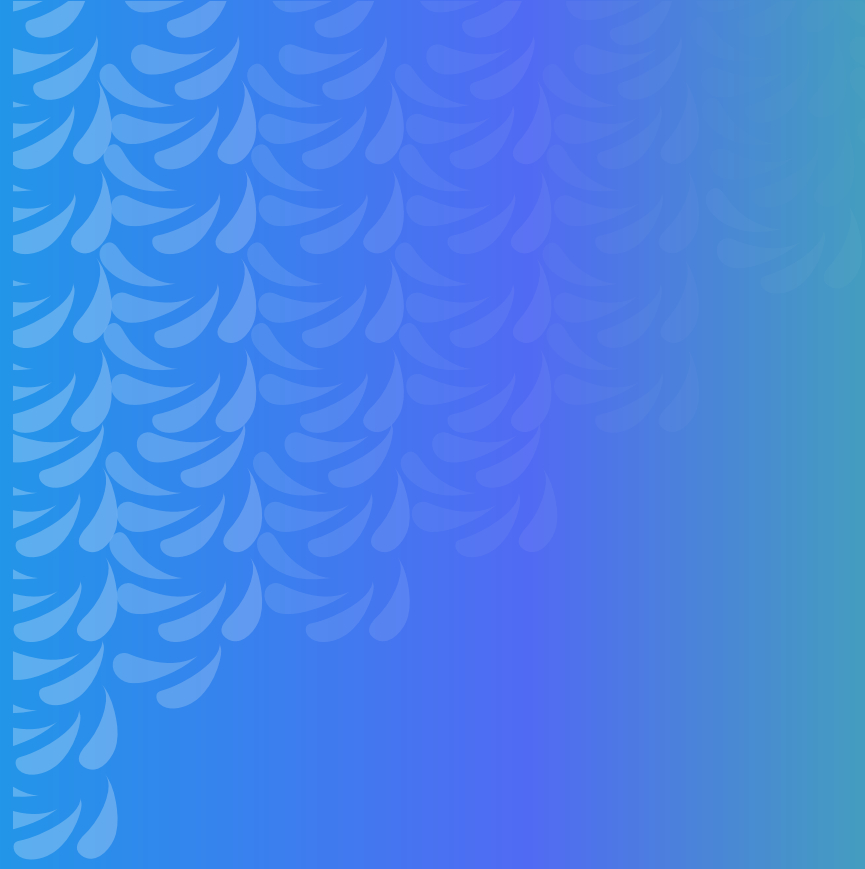
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