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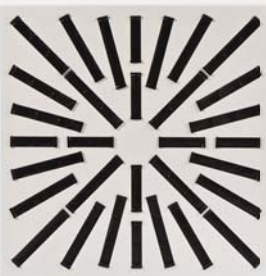
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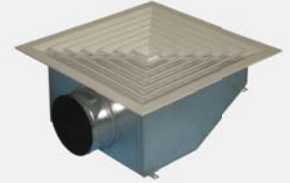
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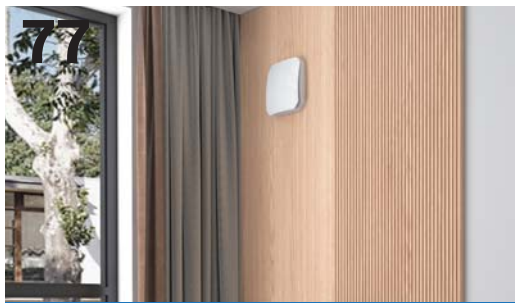
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BSG • DOUBLE DEFLECTION BLADE GRILLE



Model

- BSG: Supply grille, with adjustable blades.
- BSG-H: Supply grille, in which horizontal blades are on the front.
- BSG-V: Supply grille, in which vertical blades are on the front.



Material

All of the product frame and blades are manufactured from extruded aluminium profile.



Usage

They carry out the function of blowing hot or cold conditioned air from ventilation ducts to the environment.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with concealed screw
- Installation with plate spring



Accessories

- BPBD : Parallel blade damper
- BOBD : Opposed blade damper
- BPB : Plenum box



Frame Types

- 22 mm frame
- 28 mm frame
- 32 mm frame

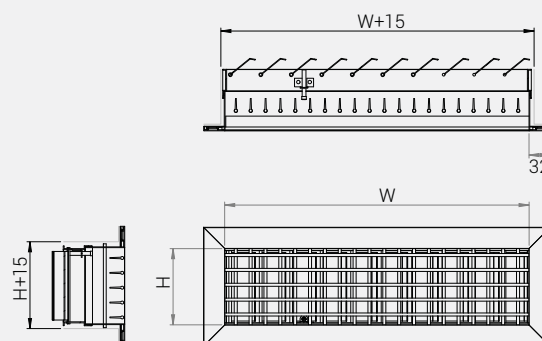


Dimensions

W (mm) : Neck Length
H (mm) : Neck Height

Standard Dimensions

		H (mm)										
		100	150	200	250	300	350	400	450	500	550	600
W (mm)	150	•	•									
	200	•	•	•								
	250	•	•	•	•							
	300	•	•	•	•	•						
	350	•	•	•	•	•	•					
	400	•	•	•	•	•	•	•				
	450	•	•	•	•	•	•	•	•			
	500	•	•	•	•	•	•	•	•	•		
	550	•	•	•	•	•	•	•	•	•	•	
	600	•	•	•	•	•	•	•	•	•	•	•
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	800	•	•	•	•	•	•	•	•	•	•	•
	900	•	•	•	•	•	•	•	•	•	•	•
	1000	•	•	•	•	•	•	•	•	•	•	•



BRG • SINGLE DEFLECTION BLADE GRILLE



Model

- **BRG-H:** Return grille that has adjustable horizontal blades.
- **BRG-V:** Return grille that has adjustable vertical blades.



Material

All of the product frame and blades are manufactured from extruded aluminium profile.



Usage

They carry out the function of extracting the polluted air from environment.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with clips
- Installation with plate spring



Accessories

- **BPBD :** Parallel blade damper
- **BOBD :** Opposed blade damper
- **BPB :** Plenum box



Frame Types

- 22 mm frame
- 28 mm frame
- 32 mm frame

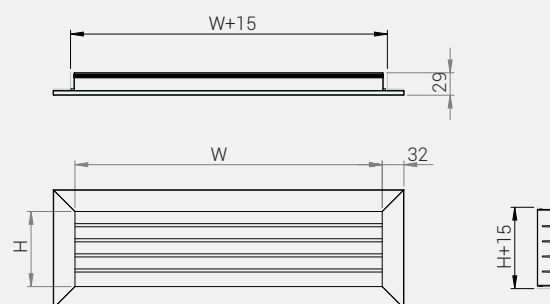


Dimensions

W (mm) : Neck Length
H (mm) : Neck Height

Standard Dimensions

		H (mm)										
		100	150	200	250	300	350	400	450	500	550	600
W(mm)	150	•	•									
	200	•	•	•								
	250	•	•	•	•							
	300	•	•	•	•	•						
	350	•	•	•	•	•	•					
	400	•	•	•	•	•	•	•				
	450	•	•	•	•	•	•	•	•			
	500	•	•	•	•	•	•	•	•	•		
	550	•	•	•	•	•	•	•	•	•	•	
	600	•	•	•	•	•	•	•	•	•	•	•
	700	•	•	•	•	•	•	•	•	•	•	•
	800	•	•	•	•	•	•	•	•	•	•	•
	900	•	•	•	•	•	•	•	•	•	•	•
	1000	•	•	•	•	•	•	•	•	•	•	•



BLG • LINEAR GRILLE



Model

- **BLG1**: Linear grille, that has fixed blades with 17° bending.
- **BLG3**: Linear grille, that has fixed blades with 30° bending.
- **BLGAD**: Linear grille Access door with 17° or 30° bended blades.



Usage

Linear grilles are used for supply of hot or cold conditioned air that has low temperature differences from ventilation ducts to ambience or for extraction of polluted air from ambience. Linear grille Access doors provide easy intervention to devices in case of any breakdown and also they can be used as supply/return grille for devices.



Material

All of the product frame and blades are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Montaj

- Installation with screw
- Installation with clips
- Installation with plate spring
- Installation with bridge



Accessories

- **BPBD** : Parallel blade damper
- **BOBD** : Opposed blade damper
- **BPB** : Plenum box



Frame Types

- 17 mm frame
- 22 mm frame
- 28 mm frame
- 32 mm frame

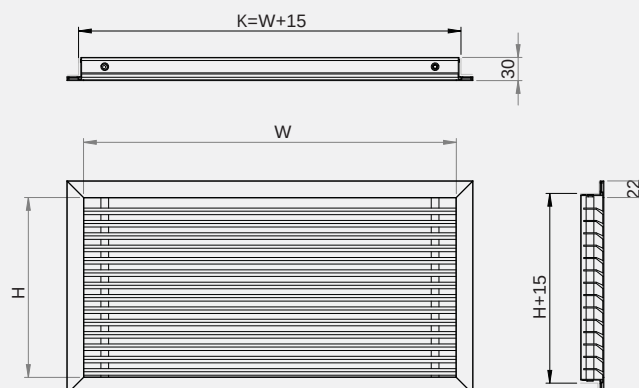


Dimensions

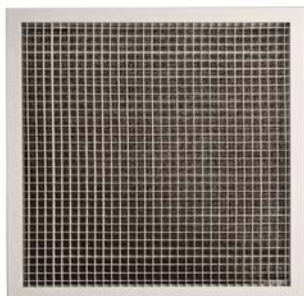
W (mm) : Neck length
H (mm) : Neck height

Standard Dimensions

		H (mm)											
		75	100	150	200	250	300	350	400	450	500	550	600
W (mm)	150	•	•	•									
	200	•	•	•	•								
	250	•	•	•	•	•							
	300	•	•	•	•	•	•						
	350	•	•	•	•	•	•	•					
	400	•	•	•	•	•	•	•	•				
	450	•	•	•	•	•	•	•	•	•			
	500	•	•	•	•	•	•	•	•	•	•		
	550	•	•	•	•	•	•	•	•	•	•	•	
	600	•	•	•	•	•	•	•	•	•	•	•	•
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	1600	•	•	•	•	•	•	•	•	•	•	•	•
	1800	•	•	•	•	•	•	•	•	•	•	•	•
	2000	•	•	•	•	•	•	•	•	•	•	•	•



BECC • EGG CRATE GRILLE



Model

- **BECC-12**: Supply/Return type egg crate grille with 12x12 mm core size
- **BECC-20**: Supply/Return type egg crate grille with 20x20 mm core size
- **BECAD**: Egg crate access door with 12x12 mm or 20x20 mm core size
- **BECAD&C**: Egg crate access door with concealed screw and 12x12 mm or 20x20 mm core size



Usage

They carry out the function of extracting the polluted air from ambience. Also, by placing special deflection blades into plenum box, they can blow air too. Egg crate access doors provide easy intervention to devices in case of any breakdown and also they can be used as return air grille for devices.



Material

The frame of the product is manufactured from aluminium profile and the blades are from aluminium strip.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with clips
- Installation with carrelage
- Installation with clip-in



Accessories

- **BPBD** : Parallel blade damper
- **BOBD** : Opposed blade damper
- **BPB** : Plenum box



Frame Types

- 22 mm frame
- 32 mm frame

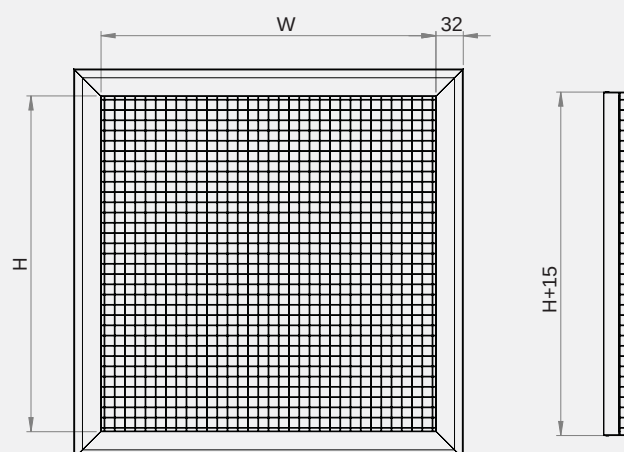
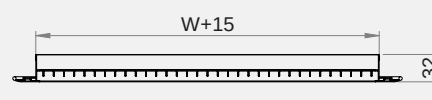


Dimensions

W (mm) : Neck length
H (mm) : Neck height

Standard Dimensions

		H (mm)											
		75	100	150	200	250	300	350	400	450	500	550	600
W (mm)	150	•	•	•									
	200	•	•	•	•								
	250	•	•	•	•	•							
	300	•	•	•	•	•	•						
	350	•	•	•	•	•	•	•					
	400	•	•	•	•	•	•	•	•				
	450	•	•	•	•	•	•	•	•	•			
	500	•	•	•	•	•	•	•	•	•	•		
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	900	•	•	•	•	•	•	•	•	•	•	•	•
	1000	•	•	•	•	•	•	•	•	•	•	•	•
	1200	•	•	•	•	•	•	•	•	•	•	•	•
	1400	•	•	•	•	•	•	•	•	•	•	•	•
	1600	•	•	•	•	•	•	•	•	•	•	•	•



BDTG • DOOR TRANSFER GRILLE



Material

All of the product frame and blades are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw.
- Installation without screw.



Frame Types

- 22 mm frame



Model

- BDTG: Door transfer grille, with "V" form blades, 22 mm frame and facing frame.



Usage

They are used for providing the natural air circulation occurring due to the pressure difference between the spaces. They can be applied to the walls and doors with thickness between 30 mm and 69 mm.

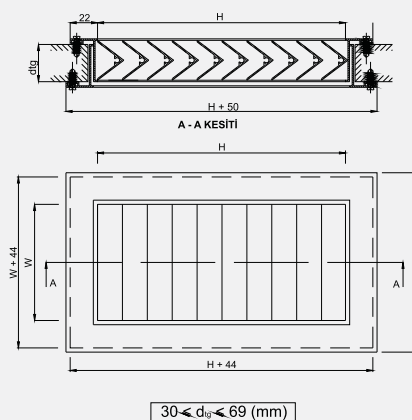


Dimensions

W (mm) : Neck Length
H (mm) : Neck Height

Standard Dimensions

		H (mm)											
		75	100	150	200	250	300	350	400	450	500	550	600
W(mm)	200	•	•	•	•								
	250	•	•	•	•	•							
	300	•	•	•	•	•	•						
	350	•	•	•	•	•	•	•					
	400	•	•	•	•	•	•	•	•				
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	900	•	•	•	•	•	•	•	•	•	•	•	•
	1000	•	•	•	•	•	•	•	•	•	•	•	•
	1200	•	•	•	•	•	•	•	•	•	•	•	•
	1400	•	•	•	•	•	•	•	•	•	•	•	•
	1600	•	•	•	•	•	•	•	•	•	•	•	•



BFLG • FLOOR LINEAR GRILLE



Model

- BFLG: Floor linear grille
- BCFLG: Convector linear grille



Usage

Floor linear grilles are used with the purpose of floor heating and cooling in ambiances such as information processing centers where raised floor application is available. Convector linear grilles can be used in heating and cooling applications by laying easily on the convector due to their flexible structures.



Dimensions

W (mm) : Neck length
H (mm) : Neck height

Standard Dimensions

a) For BFLG model:
b) For BCFLG model:

	H (mm)			
W (mm)	200	300	400	600
200	●	●	●	●
250	●	●	●	●
300	●	●	●	●
350	●	●	●	●
400	●	●	●	●
450	●	●	●	●
500	●	●	●	●
550	●	●	●	●
600	●	●	●	●
700	●	●	●	●
800	●	●	●	●
900	●	●	●	●
1000	●	●	●	●



Material

Floor linear grille casing and blades are manufactured from extruded aluminium profile. There is no casing in convector linear grille and its blades are manufactured from extruded aluminium profile. BFLG type grille blades are connected with transmission steel shaft.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Vidasız montaj.



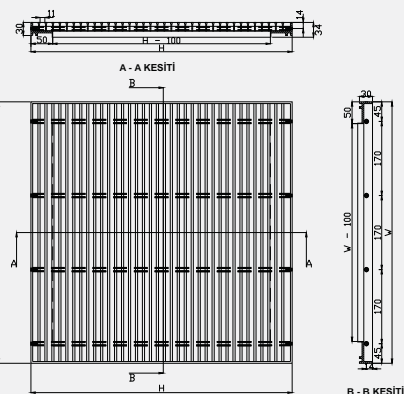
Accessories

- BPBD : Parallel blade damper.
- BOBD : Opposed blade damper



Frame Types

- 30 mm frame
- 40 mm frame



BROADG • ROUND AIR DUCT GRILLE



Model

- BROADG-S: Supply type round air duct grille.
- BROADG-R: Return type round air duct grille.



Usage

Round air duct grilles are used for supply of hot or cold conditioned air from round air ducts to ambiances such as office, shopping center; and for suction of polluted air from these ambiances.

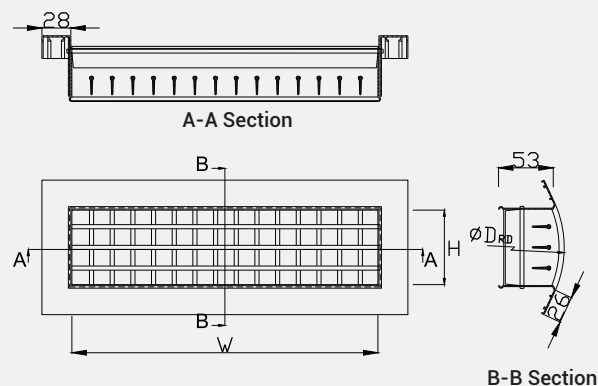


Dimensions

W (mm) : Neck length
H (mm) : Neck height

Standard Dimensions

W(mm)	H (mm)			
	75	125	175	225
	ØD(mm)			
150	150....400	300....900	500....1500	600....2400
200				
225				
250				
300				
325				
350				
400				
425				
450				
500				
525				
600				
625				
825				
1025				
1225				



Material

Product casing and blades are manufactured from extruded aluminium profile up to Ø250 mm diameter. Over Ø250 mm diameter as for, product casing is manufactured from galvanized sheet



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

Installation with screw to round air duct.



Frame Types

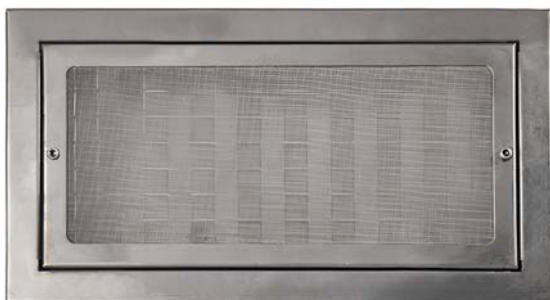
- 32 mm frame



Accessories

- BPBD : Parallel blade damper

BFFG • FIBER FILTER GRILLE



Model

- BFFG: Fiber filter grille

Material

Product casing and 0,5 x Ø 0,3 mm sintered filter section are manufactured from AISI 304 and AISI 316 quality Cr - Ni stainless steel material.



Assembly

Hidden screw fixing application from neck to duct or wall.



Usage

Fiber filter grilles are used as suction grilles in ventilation systems. They retain the undesired particles that are present in the extracted air. Also they prevent the particles to be accumulated in the duct and harm the devices. They are used in surgery rooms, clean rooms and in the hygienic ambiances in textile industry. Pore structure is in accordance to DIN 4185 standard requested for textile products. Also, filter section can be easily cleaned up by demounting due to its cover openable with bolt.

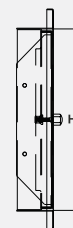
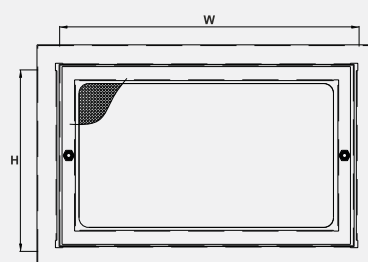


Dimensions

W (mm) : Neck length of fiber filter grille
H (mm) : Neck height of fiber filter grille

Standard Dimensions

	H (mm)						
W(mm)	200	250	300	350	400	450	500
250	●	●	●	●	●	●	●
300	●	●	●	●	●	●	●
350	●	●	●	●	●	●	●
400	●	●	●	●	●	●	●
450	●	●	●	●	●	●	●
500	●	●	●	●	●	●	●
600	●	●	●	●	●	●	●
700	●	●	●	●	●	●	●
800	●	●	●	●	●	●	●
900	●	●	●	●	●	●	●



BSCD • FLAT BLADE SQUARE CEILING DIFFUSER



Model

- **BSCD**: Square ceiling diffuser, with fixed or adjustable inside body and flat blades

Material

Product frame is manufactured from extruded aluminium profile and its blades are manufactured by forming aluminium sheet in the mold.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Aluminium anodic oxidation
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with clips
- Installation with spring
- Installation with carrelage
- Installation with clip-in
- Installation with sag



Accessories

- **BPBD** : Parallel blade damper
- **BOBD** : Opposed blade damper
- **BPB** : Plenum box
- **BSB** : Subframe



Usage

Flat blade square ceiling diffusers carry out the function of supplying the air from ventilation ducts to ambience and extracting the polluted air from ambience.

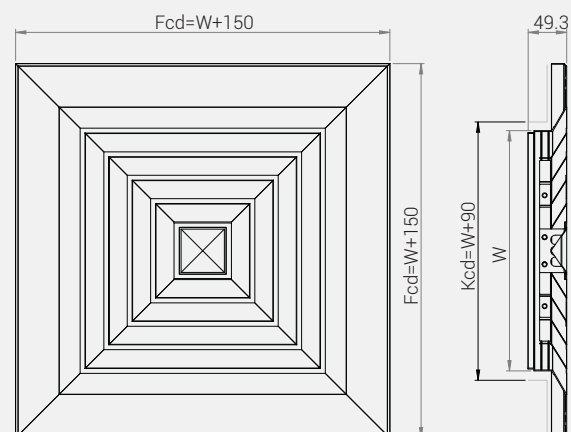


Dimensions

W (mm) : Neck Length
 F_{cd} (mm) : Frame Length
 K_{cd} (mm) : Nominal duct width

Standart Dimensions

∅W	150	225	300	375	445	450	525	600
∅Kcd	240	315	390	465	535	540	615	690
∅Fcd	300	375	450	525	595	600	675	750



BSCD-CB • CURVED BLADE SQUARE CEILING DIFFUSER



Model

- **BSCD-CB**: Square ceiling diffuser, with fixed internal body and curved blades.
- **BSCD-CBA**: Square ceiling diffuser, with adjustable internal body and curved blades.

Material

All of the product frame, core and blades are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Aluminium anodic oxidation
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with clips



Accessories

- **BPBD** : Parallel blade damper
- **BOBD** : Opposed blade damper
- **BPB** : Plenum box



Usage

Curved blade square ceiling diffusers carry out the function of supplying the air from the ventilation ducts to ambiances such as office, shopping center, conference room and extracting the polluted air from these ambiances. They are directly mounted onto the duct or plenum box. They are suitable for ceiling applications with heights of 2,6 mt - 4 mt. They provide horizontal air throw due to their fixed and curved blade structures. 1, 2, 3 and 4 ways supply can be made due to the arrangement of the blades.

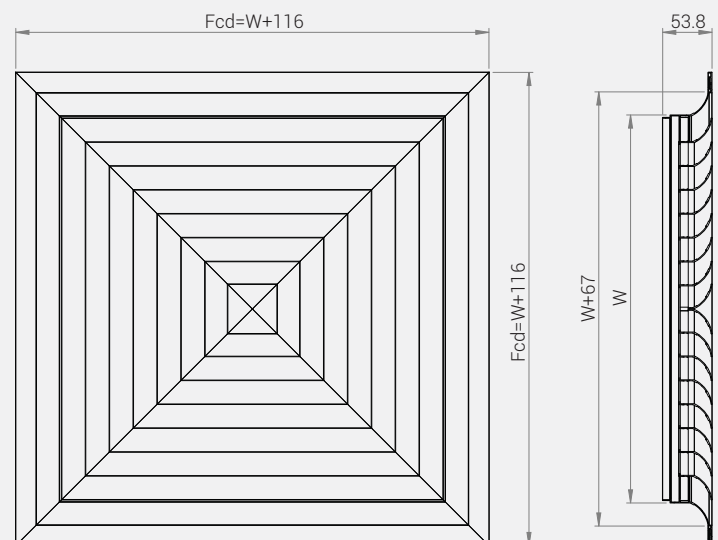


Dimensions

W (mm) : Neck Length
 F_{cd} (mm) : Frame Length
 K_{cd} (mm) : Nominal duct width

Standart Dimensions

∅W	150	225	300	375	450	525	600
∅Kcd	217	292	367	442	517	592	667
∅Fcd	266	341	416	491	566	641	716



BRCD • ROUND CEILING DIFFUSER



Material

Product external frame and blades are manufactured from aluminium sheet produced by spinning method.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Aluminium anodic oxidation
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with hidden screw from the neck.



Accessories

- BBD : Butterfly damper
- BPB : Plenum box



Model

- BRCD: Round ceiling diffuser that has fixed internal core.
- BRCD - A: Round ceiling diffuser that has demountable internal core.
- BRCD&BBD: Round ceiling diffuser that has fixed internal core and butterfly damper.



Usage

Round ceiling diffusers are used for supply of conditioned hot or cold air from air ducts to ambiances such as office, shopping center and conference hall and for extraction of polluted air from these ambiances. Also, they are suitable for horizontal air throws due to their blade structures and are fixed to ceiling.

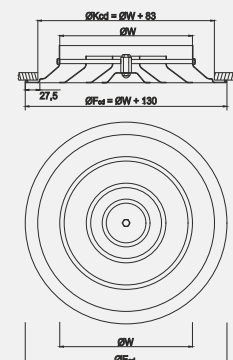


Dimensions

$\varnothing W$ (mm) : Round ceiling diffuser's neck diameter
 $\varnothing F_{cd}$ (mm) : Round ceiling diffuser's frame diameter
 $\varnothing K_{cd}$ (mm) : Round ceiling diffuser's installation hole diameter

Standard Dimensions

	$\varnothing W$ (mm)									
	100	150	200	250	300	350	400	450	500	550
$\varnothing K_{cd}$ (mm)	183	233	283	333	383	433	483	533	583	633
$\varnothing F_{cd}$ (mm)	230	280	330	380	430	480	530	580	630	680



BPRD • PLASTIC ROUND DIFFUSER



Model

- BPRD: Plastic round diffuser

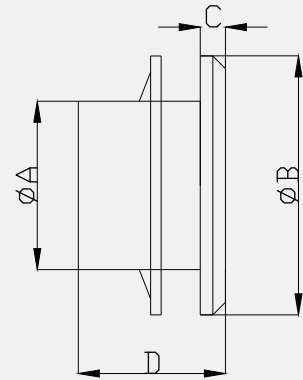
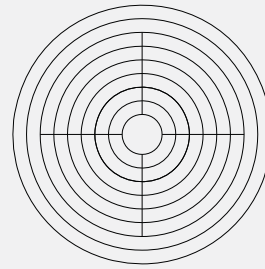


Material

Manufactured from a special plastic material with windscreen at the back of it.

Standard Dimensions

Model	Ölçü (mm)	ØA (mm)	ØB (mm)	C (mm)	D (mm)
BPRD 80	Ø 80 mm	80	123	12	70
BPRD 100	Ø 100 mm	100	141	12	70
BPRD 125	Ø 125 mm	125	166	14	72
BPRD 150	Ø 150 mm	150	188	15	72
BPRD 200	Ø 200 mm	200	240	14	72
BPRD 250	Ø 250 mm	250	294	21	78
BPRD 315	Ø 315 mm	315	371	25	83



BDV • DISC VALVE

**Material**

Product external frame and internal core are manufactured from DKP sheet produced with spinning method.

**Coating**

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided

**Assembly**

- Installation with subframe
- Installation with spring

**Accessories**

- BSB : Subframe

**Model**

- BDV: Metal disc valve that has adjustable internal body.

**Usage**

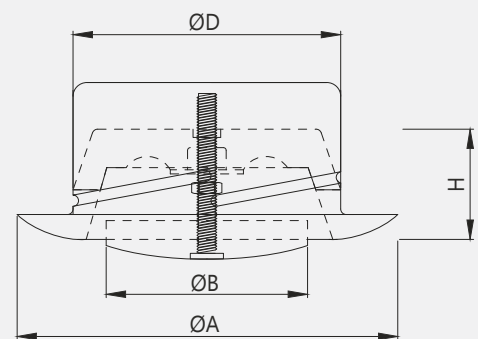
Metal disc valves can be used as supply and return type. The core of the metal disc valve can be adjusted. Therefore, air flow rate can be adjusted. Also, metal disc valve is suitable for installation to ceiling. They are used in toilet, shower and baths.

**Dimensions**

ØA(mm) : Outer frame diameter
 ØB(mm) : Core diameter
 ØD(mm) : Neck diameter

Standard Dimensions

	ØD (mm)	H (mm)	ØB (mm)	ØA (mm)
BDV 100	97	40	73	138
BDV 125	119	48	98	164
BDV 150	149	53	118	200
BDV 200	201	58	156	248



BPDV • PLASTIC DISC VALVE



Properties

- Product is available with Ø100, Ø125, Ø160 mm diameters.
- Provides variable air flow control.
- There is no leakage between diffuser's body and installation frame.
- It is suitable to use in ambiances where the humidity is high.
- Easy to clean.
- Compression ring can be assembled for installation to a place with a very little space.



Model

- BPDV: Plastic disc valve

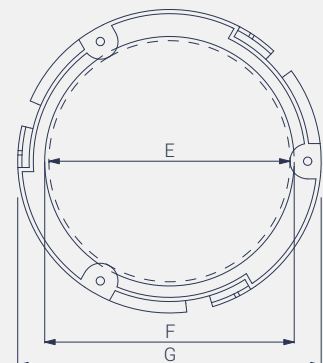
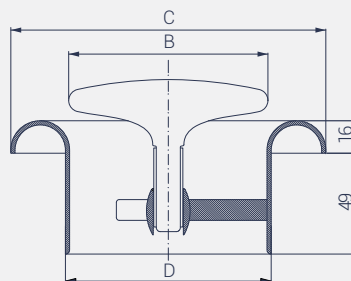
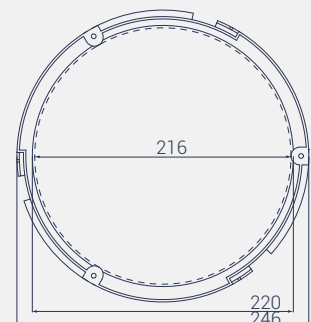
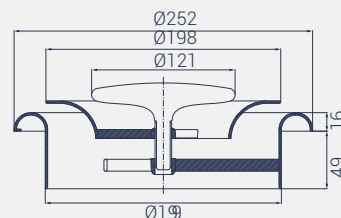


Material

Manufactured from white polypropylene which is heat resistance up to 100°C.

Standard Dimensions

Model	Dimensions (mm)
BPDV	Ø 100 mm
BPDV	Ø 125 mm
BPDV	Ø 160 mm



BSD • SLOT DIFFUSER



Model

- **BSD-S:** Distribution type slot diffuser, with damper and air manipulating wings
- **BSD-R:** Toplayıcı tip slot difüzör, damperli, kanatsız

Material

Frame part and whole wings manufactured from aluminum profile, damper part manufactured from aluminum sheet



Coating



- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Analogue coating for damper and blades.
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with bridge.



Accessories

- BPB : Plenum box



Frame Types

- 32 mm frame



Usage

Slot diffusers are used for supply of hot or cold conditioned air from the ventilation ducts to the ambiances such as office, meeting room, shop or for extraction of the polluted air from these ambiances. They are directly installed onto the plenum box and manufactured with 1, 2, 3, 4 slots. Each slot has two deflection blades that are capable of preventing internal turbulences and the direction of the air flow can be adjusted via these blades. Besides this, they are ideal for places that have ceiling heights between 2,6 - 4 mt.

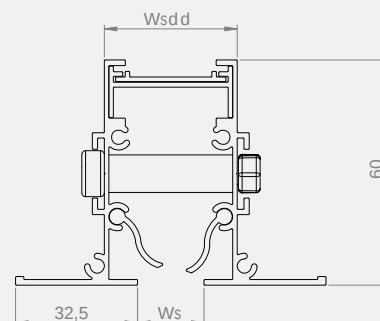
Standard Dimensions

L _{SD} (mm)	(mm)	Slot Number			
		1	2	3	4
500	ØD P _H				
600					
700		138	198	218	248
800		273	297	350	350
900					
1000					
1100					
1200					
1300		138	198	218	248
1400		273	297	350	400
1500					
1600					
1700		138	198	218	248
1800		273	341	400	487
1900					
2000					
2100					
2200					
2300		138	198	218	248
2400		273	341	400	487
2500					
2600					
2700					
2800		138	198	218	248
2900		273	341	400	487
3000					



Dimensions

- ØD (mm): Inlet diameter of slot diffuser's plenum box
 PH (mm): Height of plenum box
 L (mm): Length of slot diffuser
 W_s (mm): Width of slot diffuser
 W_{SDD} (mm): Width of slot diffuser's damper SDD



BRSD • ROLLER SLOT DIFFUSER



Model

- BRSD: Roller slot diffuser



Usage

Roller slot diffusers are used for supply of hot or cold conditioned air from air ducts to ambiances such as office, meeting room, shop where ceiling height is 2,6 – 4 mt and it can be also used for extracting the polluted air from these ambiances. Product can be installed to ceiling or wall and it can be manufactured with 1,2,3 or 4 slots.



Material

The casing of the product is manufactured from aluminium profile and the blades are from plastic.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum



Assembly

- Bridge installation to plenum box
- Installation with plenum box to ceiling by hanger
- Installation to wall



Accessories

- BPB : Plenum box



Frame Types

- 17 mm frame

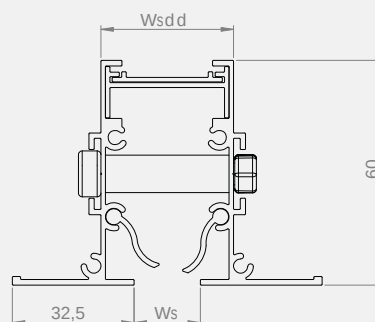
Standard Dimensions

L (mm)		Slot Number			
		1	2	3	4
500	ØD(mm)x n	98 x 1 123 x 1	123 x 1 138 x 1	138 x 1 158 x 1	158 x 1 198 x 1
600					
700					
800					
900					
1000					
1100					
1200					
1300					
1400					
1500					
1600		98 x 2 123 x 2	123 x 2 138 x 2	138 x 2 158 x 2	158 x 2 198 x 2
1700					
1800					
1900					
2000					
2100					
2200					
2300					
2400					
2500					
2600					
2700					
2800					
2900					
3000					



Dimensions

ØD (mm) : Plenum box inlet diameter
 L (mm) : Slot diffuser length
 n (mm) : Plenum box inlet count
 s (mm) : Slot count
 W (mm) : Slot width



BRSD-L• LINEAR SLOT DIFFUSER



Material

Whole frame and blades of linear slot diffuser are made from extruded aluminium profile.



Assembly

- Electrostatic powder painting (in RAL code)
- Anodized Aluminum



Coating

- Installation with sag



Accessory

- Plenum box



Model

- BRSD-L: Linear Slot Diffuser

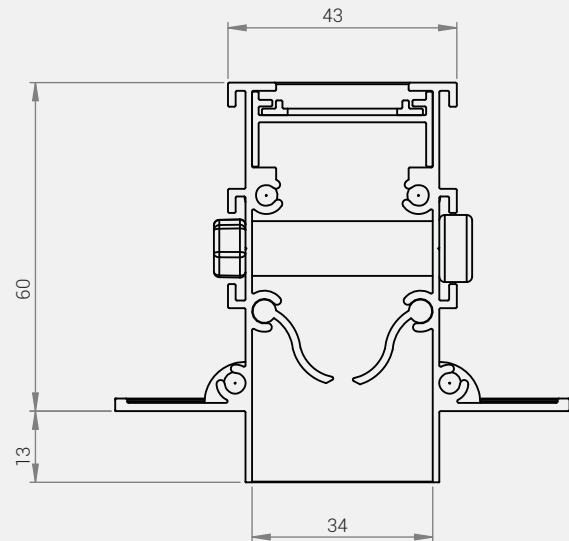


Usage

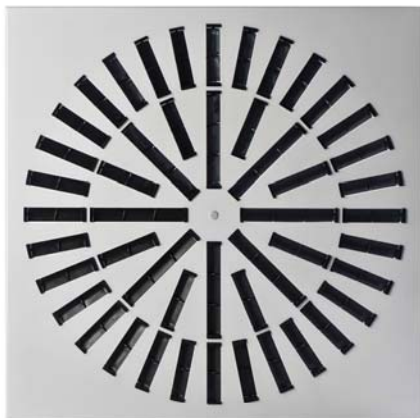
Linear Slot Diffusers are generally suitable for continuous assembly and can be mounted as parallel arrays to create a linear vision. Air discharge direction can be set as desired according to demanded ambient conditions. Linear slot diffusers are ideal for ambients with ceiling height between 2.6 - 4 mt.

Standard Dimensions

L _(sd)	(mm)	Slot
		1
500	ØD P _H	138 273
.		
.		
.		
.		
.		
3000		
ØD = Slot difüzör plenum kutusu giriş ağız çapı (Slot diffuser plenum box inlet diameter)		
P _H = Plenum kutusu yüksekliği (Plenum box height)		



BSWA• SWIRL DIFFUSER



Material

Product faceplate is manufactured from DKP sheet and blades are manufactured from plastic.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Bridge installation to plenum box
- Installation with carrellage



Accessories

- BPB : Plenum box



Model

- BSWA: Swirl diffuser with adjustable radial blades and square faceplate.



Usage

BSWA model swirl diffusers are used for supply of hot or cold conditioned air to ambiances that have ceiling heights between 2,6 - 4 mt such as office, meeting room, shop, cinema and clean room by providing the fresh air to mix the indoor air rapidly and for extraction of polluted air from these ambiances.

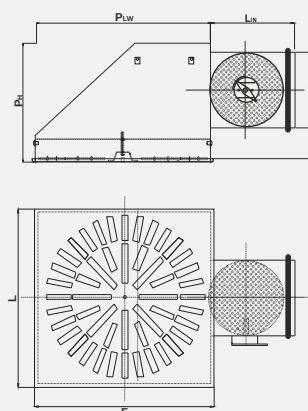


Dimensions

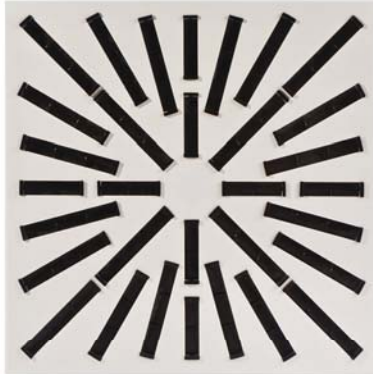
- ØD (mm) : Inlet diameter of plenum box
- P_H (mm) : Height of plenum box
- P_{LW} (mm) : Length of plenum box
- P_{LH} (mm) : Width of plenum box
- L_{IN} (mm) : Length of plenum box inlet mouth
- F (mm) : Frame length
- L (mm) : Frame width

Standard Dimensions

Dimension	F=L (mm)	P _{LW} =P _{LH} (mm)	P _H (mm)	ØD (mm)	L _{IN} (mm)
310	310	290	315	157	40
400	400	380	315	157	40
500	500	480	405	250	60
600 (595)	600 (595)	580 (575)	405	250	60
625	625	605	405	250	60
800	800	780	500	353	-



BSWB • SWIRL DIFFUSER



Material

Product faceplate is manufactured from DKP sheet and blades are manufactured from plastic



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Bridge installation to plenum box
- Installation with carrellage



Accessories

- BPB : Plenum box



Model

- BSWB: Swirl diffuser that has adjustable blades in the square form and square faceplate.



Usage

BSWB model swirl diffusers are used in supply and return ducts for providing the fresh air to mix with the indoor air rapidly. They are suitable for usage in places that have ceiling heights between 2,6 - 4 mt. Swirl diffusers are manufactured in square form.

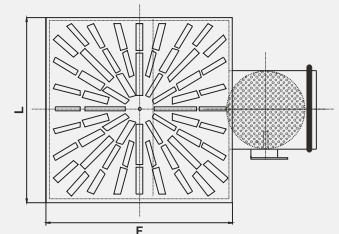
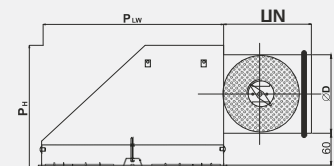


Dimensions

- ØD (mm) : Inlet diameter of plenum box
- P_H (mm) : Height of plenum box
- P_{LW} (mm) : Length of plenum box
- P_{LH} (mm) : Width of plenum box
- L_{IN} (mm) : Length of plenum box inlet mouth
- F (mm) : Frame width
- L (mm) : Frame length

Standard Dimensions

Dimension	F=L (mm)	P _{LW} =P _{LH} (mm)	P _H (mm)	ØD (mm)	L _{IN} (mm)
310	310	290	315	157	40
400	400	380	315	157	40
500	500	480	405	250	60
600 (595)	600 (595)	580 (575)	405	250	60
625	625	605	405	250	60
800	800	780	500	353	-



BSWC• SWIRL DIFFUSER



Material

Product surface and blades are manufactured from DKP sheet.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Bridge installation to plenum box



Accessories

- BPB : Plenum box



Model

- BSWC: Swirl diffuser that has fixed radial blades and square faceplate



Usage

BSWC model swirl difüzörler yüksek hava debisi gerektiren mekanlar için idealdir. 2,6 mt ile 4 mt arası tavan yüksekliğine sahip mekanlarda kullanıma uygundur. Havalandırma kanallarından ortamlara şartlandırılmış sıcak veya soğuk havanın üflenmesi ve bu ortamlardaki kirli havanın emilmesi görevini görürler. Ön tabla kare olarak imal edilmektedir. Kanatları sabittir.

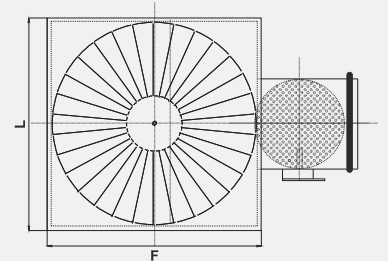
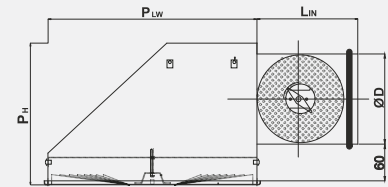


Dimensions

- ØD (mm) : Inlet diameter of plenum box
- P_H (mm) : Height of plenum box
- P_{LW} (mm) : Length of plenum box
- P_{LH} (mm) : Width of plenum box
- L_{IN} (mm) : Length of plenum box inlet mouth
- F (mm) : Frame length
- L (mm) : Frame width

Standard Dimensions

Dimension	F=L (mm)	P _{LW} =P _{LH} (mm)	P _H (mm)	ØD (mm)	L _{IN} (mm)
300	298x298	278x278	300	198	40
400	398x398	378x378	300	198	40
500	498x498	478x478	300	198	60
600	598x598	578x578	350	248	60
625	623x623	603x603	350	248	60



BSWD • FOUR WAY SWIRL DIFFUSER



Model

- **BSWD&FB**: Four-way swirl diffuser with fixed blades.
- **BSWD&AB**: Four-way swirl diffuser with adjustable blades.

Material



Product frame and blades are manufactured from aluminium profile.

Coating



- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided

Assembly



- Installation with screw

Accessories



- **BPB** : Plenum box: It is manufactured from 0,7 mm galvanized sheet, if acoustic insulation is required, 6-9 mm thick opaque black poliurethane foam material is applied into plenum box.
- **BWM** : Steel wire mesh
- **SM** : Servomotor.



Usage

Four-way swirl diffuser is used for supply of hot or cold conditioned air from ventilation ducts to ambiances such as conference halls, theaters, sports halls and supermarkets. Product can be manufactured with fixed blades or adjustable blades by handle or servomotor. Blades are adjusted to vertical position for heating, to horizontal position for cooling and isothermal throws. They are used at places where ceiling height is minimum 3,8 mt. Operating temperature range is ± 10 °C and 25 x 25 mm steel wire mesh can be used for protection of the diffusers surface.

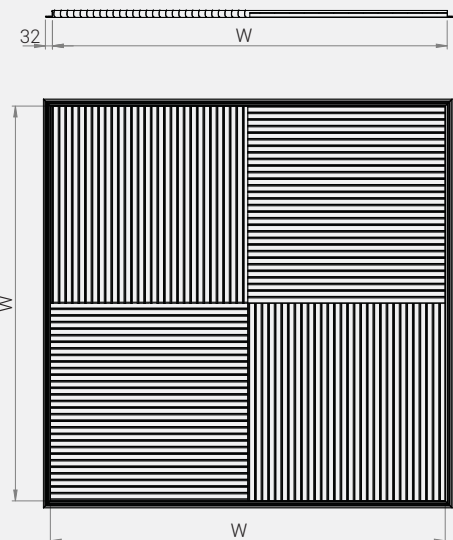


Dimensions

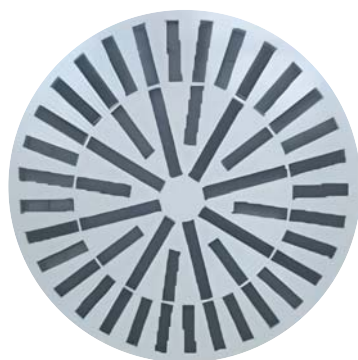
W (mm): Frame Length

Standard Dimensions

Dimension	W (mm)
420	420
595	595
770	770
1040	1040



BSWE • SWIRL DIFFUSER



Model

- **BSWE:** Swirl diffuser with adjustable radial blades and radial faceplate.



Usage

BSWA model swirl diffusers are used for supply of hot or cold conditioned air to ambiances that have ceiling heights between 2,6 - 4 mt such as office, meeting room, shop, cinema and clean room by providing the fresh air to mix the indoor air rapidly and for extraction of polluted air from these ambiances.



Dimensions

ØD (mm) : Diffuser outer diameter

Standard Dimensions

Ø D (mm)	300	350	400	450	500	550	600	650	700
----------	-----	-----	-----	-----	-----	-----	-----	-----	-----

Diameter	Blade Count	Airflow (m²/h)
300	8	70-200
350	8	85-300
400	16	100-400
450	16	150-450
500	32	200-500
550	32	275-800
600	48	350-900
650	48	425-1200
700	48	500-1500



Material

Product faceplate is manufactured from DKP sheet and blades are manufactured from plastic.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



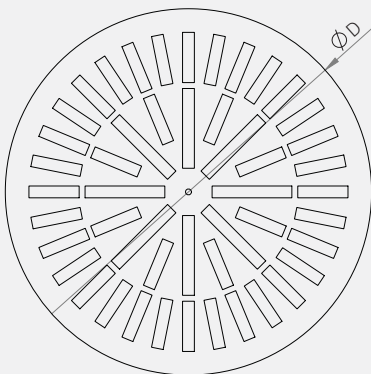
Assembly

- Bridge installation to plenum box



Accessories

- **BPB :** Plenum box



BJD • JET DIFFUSER



Model

- BJD: Single-walled jet diffuser with manually adjustable internal body.

Material

Product is manufactured from aluminium sheet by spinning method.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw to wall.
- Installation with flange, screw and rivet by adjustment of adaptor piece suitable for ducts and opening collar.
- Installation with hanging mechanism to flexible duct connections.



Accessories

- Duct adaptor.



Usage

They are suitable for usage in places that have high ceiling such as concert hall, theater and museum where grille and diffuser usage are not suitable. They can make horizontal or vertical point air throws to long distances at high air flow rates. They can blow by $\pm 30^\circ$ angle with horizontal. Therefore, they can achieve point heating and cooling.

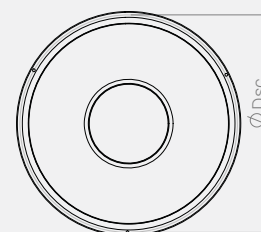
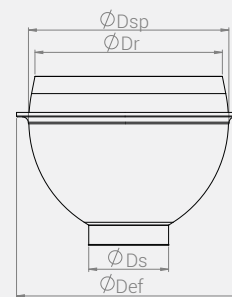


Dimensions

- ØB (mm) : Supply mouth diameter
- ØC (mm) : Flange diameter
- ØA (mm) : Flange fixing screw axis diameter
- ØD_{SP} (mm) : Flange external diameter
- ØD (mm) : Sphere diameter
- ØH₁ (mm) : Return mouth diameter

Standard Dimensions

Model	ØDS	ØDF	ØDSC	ØDEF	ØDSP	ØDR
BJD-80	40	83	95	115	76	65
BJD-120	65	123	135	153	114	102
BJD-160	80	156	168	193	144	115
BJD-200	100	215	227	248	191	170
BJD-250	125	271	283	304	239	209
BJD-315	165	327	339	360	294	270
BJD-400	203	421	433	454	375	339



BJD-DW • DOUBLE - WALLED JET DIFFUSER



Model

- **BJD-DW:** Double-walled jet diffuser with manually adjustable internal body.



Material

Product is manufactured from aluminium sheet by spinning method.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with hidden screw.
- Installation with flange, screw and rivet by adjustment of adaptor piece suitable for ducts and opening collar.
- Installation with hanging mechanism to flexible duct connections.



Accessories

- Duct adaptor.



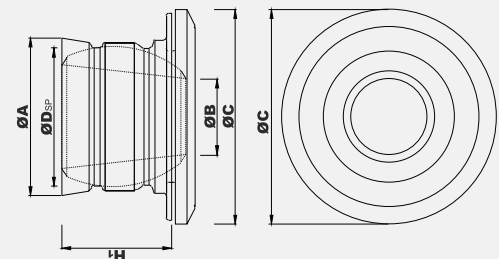
Usage

They are suitable for usage in places that have high ceiling such as concert hall, theater and museum where grille and diffuser usage are not suitable. They can make horizontal or vertical point air throws to long distances at high air flow rates. They can blow by $\pm 30^\circ$ angle with horizontal. Therefore, they can achieve point heating and cooling.



Dimensions

- ØB (mm) : Supply mouth diameter
- ØC (mm) : Flange diameter
- ØA (mm) : Return mouth diameter
- ØD_{SP} (mm) : Sphere diameter
- ØD (mm) : Round duct diameter suitable to jet diffuser
- ØH₁ (mm) : Jet diffuser's body height



Standard Dimensions

Model	ØB	ØC	ØA	ØDSP	H1	ØD
BJD-DW80 (a)	40	110	68	76	43	200
BJD-DW80 (b)	40	112	82	72	59	200
BJD-DW120	60	169	124	109	89	250
BJD-DW160	82	198	151	141	93	315, 500, 630, 800
BJD-DW200	100	252	209	189	165	500, 630, 800
BJD-DW250	128	308	251	233	168	500, 630, 800
BJD-DW315	170	360	309	284	192	500, 630, 800
BJD-DW400	199	472	390	375	229	630, 800

BDD • DRUM DIFFUSER



Material

Product casing, blade and cylindrical body are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Analogue coating for damper and blades
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- with screws



Model

- BDD-156: Drum diffuser with 156 mm diameter cylindrical body
- BDD-256: Drum diffuser with 256 mm diameter cylindrical body



Usage

Drum diffusers are used for heating, cooling and ventilation of ambiances where high and long air throws are needed such as gyms, factories, warehouses, concert halls and shopping centers. Air flow can be deflected to $\pm 30^\circ$ up and down with the help of cylindrical body placed into casing and also air flow can be deflected to left or right via adjustable blades placed into cylindrical body. Additionally they have low pressure and sound levels.

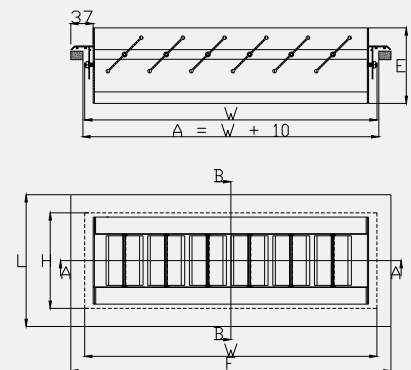


Dimensions

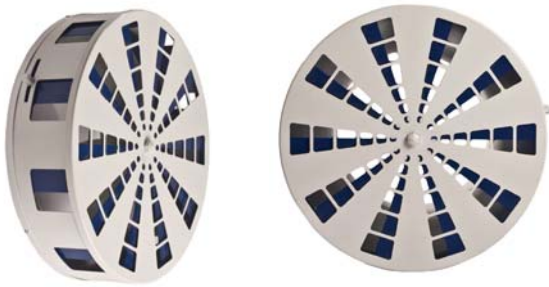
W (mm) : Neck length
 H (mm) : Neck width
 F (mm) : Frame length
 L (mm) : Frame width
 E (mm) : Drum diffuser height
 A (mm) : Duct inlet mouth length
 B (mm) : Duct inlet mouth width

Standard Dimensions

Model	Tip	F (mm)	L (mm)	W (mm)	H (mm)	C (mm)	D (mm)	E (mm)
BDD-156	01	300	218	254	158	36	89	125
	02	358	218	300	158	36	89	125
	03	375	218	330	158	36	89	125
	04	433	218	375	158	36	89	125
	05	530	218	483	158	36	89	125
	06	680	218	635	158	36	89	125
BDD-256	07	580	320	534	257	57	135	192
	08	658	320	600	257	57	135	192
	09	705	320	660	257	57	135	192
	10	808	320	750	257	57	135	192
	11	958	320	900	257	57	135	192
	12	1108	320	1050	257	57	135	192



BICD • IDEAL COMFORT DIFFUSER



Model

- BICD: Ideal Comfort Diffuser



Material

Product neck is manufactured from 1 mm DKP sheet by spinning method, product casing and blades are from 1 mm DKP sheet.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation to round duct



Accessories

- Channel adapter



Usage

Ideal comfort diffusers are used in air distribution with purpose of heating and cooling in wide spaces such as supermarkets, factories, theaters, cinemas, concert halls, meeting halls, gymnasiums, indoor pools and exhibition halls where the ceiling height is between 4 - 15 mt. Ideal comfort diffusers have one air inlet neck, internal and external surfaces and also there are openings around its circumference and underside for blowing the air. These openings can be adjusted with a mechanism which can move circularly around the center. Due to this mechanism; in summer, cold air is blown horizontally by opening the lateral holes ; and in winter, hot air is blown fast and effectively to the floor with a vertical angle by closing lateral holes and opening bottom holes. Blade adjustment can be made manually or by servo motor.

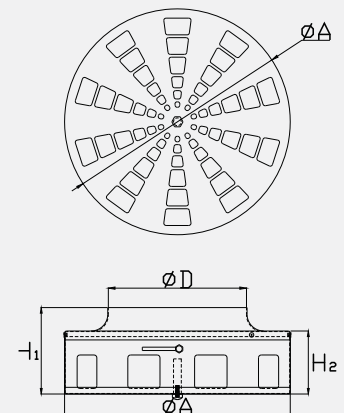


Dimensions

ØA (mm) : Outer frame diameter of comfort diffuser
 ØD (mm) : Neck diameter of comfort diffuser

Standard Dimensions

Model	ØA (mm)	ØD (mm)	H ₁ (mm)	H ₂ (mm)
BICD 300	302	180	144	79
BICD 400	405	248	155	113
BICD 500	502	315	200	120
BICD 600	602	400	221	136
BICD 800	802	500	310	185



TURBULENT SWIRL DIFFUSER



Model

- **BTD-a**: urbulent Swirl Diffuser with fied blades
- **BTD-b**: Turbulent Swirl Diffuser with adjustable blades

Material

While the product case is manufactured from 1mm DKP sheet metal using the plastering method, the blades are manufactured from galvanized or DKP sheet metal.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- with screw to circular channel



Accessories

- **SM**: Servomotor.



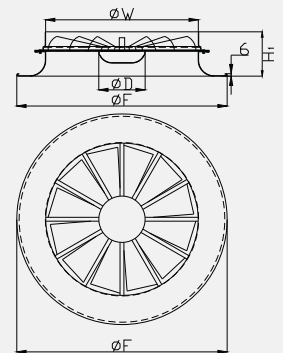
Usage

Fixed blade turbulent swirl diffusers are mostly used in cooling applications due to their blade structures. They are suitable for spaces with a ceiling height of 2.6 - 4 meters. They are also ideal for situations where the air flow rate is reduced from 100% to 25%. Adjustable blade turbulent swirl diffusers are used in places with very high ceilings such as factories, airports, theaters, banks, concert halls, conference halls and in meeting halls with a ceiling height of more than 4 meters to reach the conditioned air to the lower points and provide homogeneous heating and cooling of the environment by giving the air a spiral movement. The blade movement is done manually or with a servomotor. The operating temperature range is between -10°C and +15°C and the product is suitable for constant and variable volumetric flow rates from 100% to 40%.



Dimensions

$\varnothing W$ (mm) : Neck diameter
 $\varnothing F$ (mm) : Frame outer diamater
 $\varnothing D$ (mm) : Hub diameter
 H (mm) : Total height



Standard Dimensions

BTD-a

Dimension	$\varnothing W$ (mm)	$\varnothing F$ (mm)	$\varnothing D$ (mm)	H (mm)
250	246	395	100	110
315	311	460	100	120
400	396	545	120	120
500	496	645	120	125

BTD-b

Dimension	$\varnothing W$ (mm)	$\varnothing F$ (mm)	$\varnothing D$ (mm)	H (mm)
315	311	460	100	120
400	396	545	120	120
500	496	645	120	125
630	626	775	180	130
800	796	945	180	130

OYSTER DIFFUSER



Material

Product case is manufactured from 1mm DKP sheet metal, the blades are manufactured from ABS plastic.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Bridge assembly to the plenum box



Model

- BOD/S/125
- BOD/S/160
- BOD/S/200
- BOD/S/250
- BOD/S/315



Accessories

- Plenum box

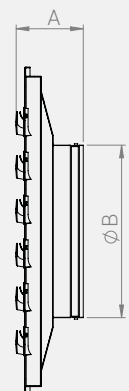
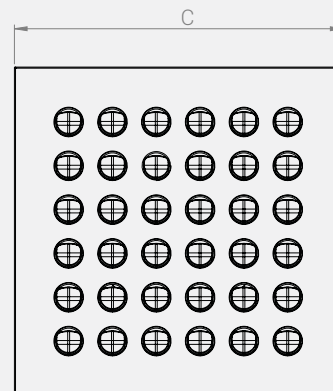


Usage

Designed to provide air support for comfortable ventilation systems for offices, stores, medical rooms and school classrooms with different size options. It offers easy installation on suspended ceilings. The nozzles can rotate 360° on the diffuser, which allows the desired air flow pattern to be achieved. The diffuser is ideal for use in environments where noise levels are important.

Standard Dimensions

	Outer Dimension	Airflow
BOD/S/125	359	100-250
BOD/S/160	359	160-320
BOD/S/200	459	200-500
BOD/S/250	599	300-700
BOD/S/315	599	450-1000



BAL • AIR LOUVRE



Model

- BAL - WB: Air louver with wide blades.
- BAL - CB: Air louver with curved blades.
- BAL - CHCB: Air louver with handle commanded curved blades.

Material

All of the product frame and blades are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with plate springs



Accessories

- GW10 : 10 x 10 mm galvanized wire mesh
- GW6 : 6 x 6 mm galvanized wire mesh



Frame Types

- BAL-WB: 45 mm frame
- BAL-CB: 32 mm frame



Usage

Air louvres are used for ventilation of places such as bathroom, toilet, warehouse, hangar, car park and for supply of hot air from the heating units, as well. Also, they are used for purpose of suction and exhaust in the ventilation ducts and they prevent the system against the outside conditions such as rain water and leaf.

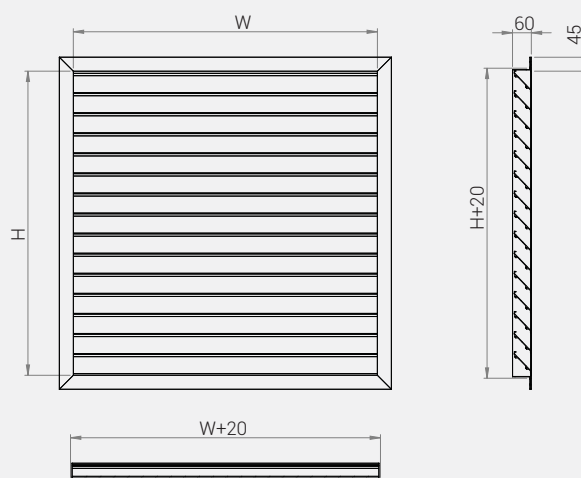


Dimensions

W (mm) : Neck length
H (mm) : Neck width
K (mm) : Nominal duct width
 A_{eff} (m²) : Effective area

Standard Dimensions

W (mm)	A_{eff} (mm)										
	H (mm)										
	100	150	200	300	400	500	600	700	800	900	1000
150	0,010	0,016	0,025	0,038	0,054	0,067	0,083	0,096	0,112	0,124	0,140
200	0,013	0,021	0,034	0,051	0,072	0,089	0,110	0,127	0,149	0,166	0,187
300	0,019	0,032	0,051	0,076	0,108	0,134	0,166	0,191	0,223	0,249	0,374
400	0,025	0,042	0,068	0,102	0,144	0,178	0,221	0,255	0,297	0,331	0,331
500	0,032	0,053	0,085	0,127	0,181	0,223	0,276	0,319	0,372	0,414	0,467
600	0,038	0,064	0,102	0,153	0,217	0,268	0,331	0,382	0,446	0,497	0,561
700	0,045	0,074	0,119	0,178	0,253	0,312	0,387	0,446	0,520	0,580	0,654
800	0,051	0,085	0,136	0,204	0,289	0,357	0,442	0,510	0,595	0,663	0,748
900	0,057	0,096	0,153	0,229	0,325	0,401	0,497	0,573	0,669	0,746	0,841
1000	0,064	0,106	0,170	0,255	0,361	0,446	0,552	0,637	0,743	0,828	0,935



BJL • JALOUSIE LOUVRE



Material

All of the Jalousie Louvre frame and blades are manufactured from extruded aluminium profile.



Coating

- Electrostatic powder coating
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation with plate springs



Model

- BJB: Jalousie Louvre

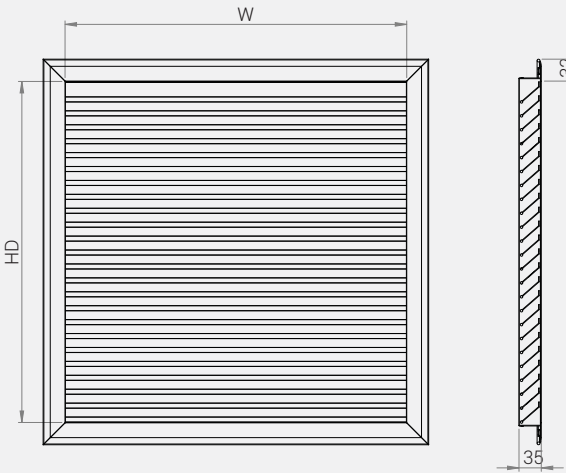


Usage

It ensures one way air flow in ventilation locations or in air ducts. When ventilations system stops, it prevents counter air flow.

Standard Dimensions

W (mm)	H (mm)											
	100	200	300	400	500	600	700	800	900	1000	1250	1500
100	•	•	•	•	•	•	•	•	•	•	•	•
150	•	•	•	•	•	•	•	•	•	•	•	•
200	•	•	•	•	•	•	•	•	•	•	•	•
250	•	•	•	•	•	•	•	•	•	•	•	•
300	•	•	•	•	•	•	•	•	•	•	•	•
350	•	•	•	•	•	•	•	•	•	•	•	•
400	•	•	•	•	•	•	•	•	•	•	•	•
450	•	•	•	•	•	•	•	•	•	•	•	•
500	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•	•	•	•
1250	•	•	•	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•	•	•	•



BST • SAND TRAP LOUVRE



Material

Product casing is manufactured from galvanized sheet and the blades are from aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw
- Installation to duct with M.8 or M.10 bolt



Model

- BSTF : Drawer type sand trap louvre.
- BSTL : Bottom discharge type sand trap louvre.



Usage

Sand trap louvres are used at the ends of suction and supply lines of air ducts for protecting the ventilation system by prefiltering the air in the environments where dust concentration is dense. It has U profile blade structure and blades are installed by cross arrangement into the casing in vertical direction. While the particle holding efficiency is %30 - %78 for particles with dimensions between 75 – 700 µm, it increases up to %70 - %97 for particles with dimensions between 350 – 750 µm. The working principle of drawer type sand trap louvre is; first, dust particles, carried with air, strike to blades with the effect of centrifugal force occurred and then they get separated from air and particles pile up in the drawer by passing through the holes in the bottom of sand trap louvre after that dust can be simply discharged from the drawer. The only difference of bottom discharge type sand trap louvre is; it discharges the dust directly through its bottom holes without collecting them in the drawer.

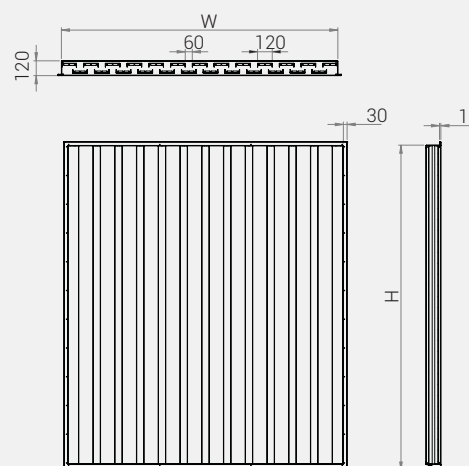


Dimensions

W (mm) : Neck length
H (mm) : Neck width

Standard Dimensions

	H (mm)													
W (mm)	350	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2200	2250
350	•	•	•	•	•	•	•	•	•	•	•	•	•	•
450	•	•	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•	•	•
750	•	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1050	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1200	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1350	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1500	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1650	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1800	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1950	•	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2100	•	•	•	•	•	•	•	•	•	•	•	•	•	•
2250	•	•	•	•	•	•	•	•	•	•	•	•	•	•



BACL• ACOUSTIC LOUVRE



Material

Casing and blades are manufactured from galvanized sheet, as standard. Product can be manufactured from aluminium or stainless steel, on demand.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Montaj

- Installation with screw



Aksesuar

- GW10 : 10x10 mm galvanized wire mesh
- GW6 : 6x6 mm galvanized wire mesh



Model

- BACL-1: Acoustic louvre
- BACL-2: Acoustic louvre with increased absorption effect



Usage

Acoustic louvre is used for reducing the sound transmission that caused from aspirator or air handling unit, between the ends of suction and exhaust lines of air ducts and also it can be used directly for reducing the sound transmission between internal and external environments. Blades are manufactured with 45° angle and installed to casing with determined intervals. Blades are double-walled and internal wall is manufactured from porous perforated sheet which is resistant to abrasion, external wall is manufactured from galvanized sheet and glasswool with 70 kg/m³ density and 50 mm thickness is used as acoustic material between walls. Meantime, acoustic louvre protects ventilation system from hazards such as rain, bird etc.

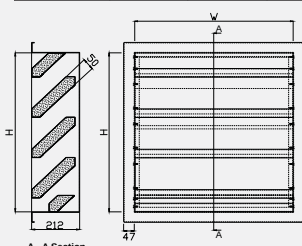


Dimensions

W (mm) : Neck length
H (mm) : Neck height

Standard Dimensions

	H (mm)													
W (mm)	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
300	●	●	●	●	●	●	●	●	●	●	●	●	●	●
450	●	●	●	●	●	●	●	●	●	●	●	●	●	●
600	●	●	●	●	●	●	●	●	●	●	●	●	●	●
750	●	●	●	●	●	●	●	●	●	●	●	●	●	●
900	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1050	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1200	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1350	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1500	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1650	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1800	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1950	●	●	●	●	●	●	●	●	●	●	●	●	●	●



BRAL • CIRCULAR SECTION LOUVRE



Material

Product is manufactured from aluminium material using molding method.



Properties

- Aluminum louvres are mostly used for sucking the fresh air.
- Product has a round connection which fits directly to air duct.
- Mesh made of stainless steel is placed behind the louvre to protect the system from little insects like flies.
- Screw assembly.



Assembly

- Installation with screws

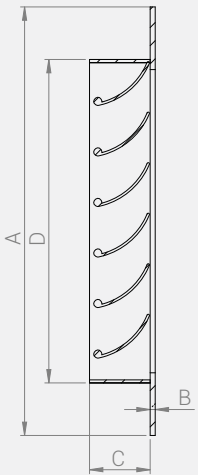


Model

- BRAL: Circular Section Louvre

Standard Dimensions

ØD (mm)	ØA (mm)	B (mm)	C (mm)
Ø100	Ø125	5,0	15
Ø200	Ø225	5,0	15



BSAB • RECTANGULAR SOUND ATTENUATOR



Model

- **BSAB100:** Rectangular sound attenuator with 100 mm thick splitter
- **BSAB200:** Rectangular sound attenuator with 200 mm thick splitter



Material

Product casing is manufactured from galvanized sheet with between 0,8 mm to 1,5 mm thickness according to its size and splitters are also manufactured from galvanized sheet with between 0,7 mm to 1 mm thickness according to its size. After then prepared flanges and flange corner pieces are installed to the product.



Usage

Sound attenuators are used for absorbing the sound that occurs at air conditioning and ventilation systems. Splitter thickness that are used in attenuators are 100 mm and 200 mm and the filling materials are 2 pieces of rockwool with 50 mm thickness, 50 kg/m³ density and one side of it is covered with fiberglass. Rockwool that is used in product is noncombustible in accordance with DIN 4102 Class A and it is also decay and moisture resistant. The side of the rockwool that is exposed to air flow is covered with fiberglass to prevent particulates to fly away in high velocities up to 20 m/s. Additionally, attenuators are manufactured with 20 mm, 25 mm, 30 mm and 35 mm flanges that are sealed with mastic. At 20 mm and 25 mm flanges M.8; at 30mm and 35 mm flanges M.10 bolts and nuts are used for installation.

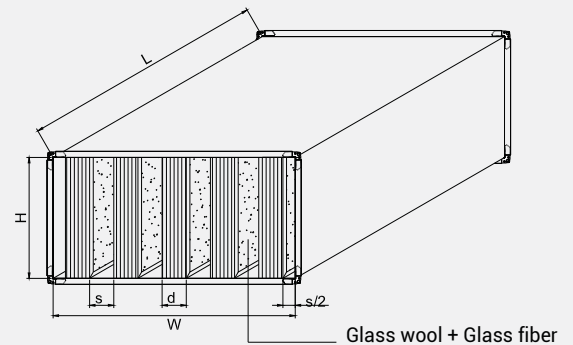


Dimensions

W (mm) : Width of attenuator
 H (mm) : Height of attenuator
 L (mm) : Length of attenuator
 n : Number of Splitter
 s (mm) : Air-way Gap
 d (mm) : Splitter Thickness

Standard Dimensions

Model	d (mm)	s (mm)	W (mm)	H (mm)	L (mm)
BSAB 100	100	50.....120	150...1680	150...1800	500,750
BSAB 200	200	70.....210	270...3200		1000 1250,1500



BSAB-R • CYLINDRICAL SOUND ATTENUATOR



Model

- **BSAB-R:** Cylindrical Sound Attenuator
- **BSAB-RP:** Cylindrical Sound Attenuator With Pod



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation to round ducts
- Installation to round duct branches



Material

Outer surface of cylindrical attenuator is manufactured from galvanised sheet, and the inner surface is from perforated sheet. The filling material used between these surfaces is manufactured from noncombustible accordance with DIN 4102 Class A rockwool with 50 mm or 100 mm thickness and 70 kg/m³ density. We also have cylindrical attenuator with pod.



Usage

Sound attenuators are used for preventing sound transmission occurring through air ducts between the places that are connected with air conditioning and ventilation systems. Application areas are places such as meeting halls, offices, hospital rooms, music studios and clinics.

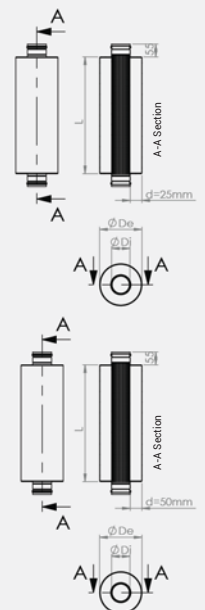


Dimensions

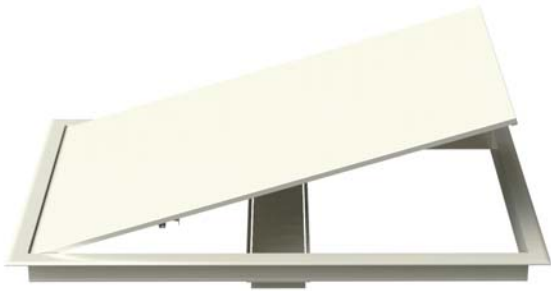
- $\varnothing D_i$ (mm) : Circular attenuator inner diameter
 $\varnothing D_e$ (mm) : Circular attenuator outer diameter
 L (mm) : Circular attenuator length
 d (mm) : Insulation thickness

Standard Dimensions

Size	$\varnothing D_i$ (mm)	$\varnothing D_e$ (mm) d = 50 mm	$\varnothing D_e$ (mm) d = 100 mm	L = 300 mm	L = 500 mm	L = 600 mm	L = 750 mm	L = 900 mm	L = 1000 mm	L = 1200 mm	L = 1500 mm
80	78	180	280	•	•	•	•	•	•	•	•
100	98	200	300	•	•	•	•	•	•	•	•
125	123	225	325	•	•	•	•	•	•	•	•
150	148	250	350	•	•	•	•	•	•	•	•
160	158	260	360	•	•	•	•	•	•	•	•
200	198	300	400	•	•	•	•	•	•	•	•
250	248	350	450	•	•	•	•	•	•	•	•
315	313	415	515	•	•	•	•	•	•	•	•
355	353	455	555	•	•	•	•	•	•	•	•
400	398	500	600	•	•	•	•	•	•	•	•
450	448	550	650	•	•	•	•	•	•	•	•
500	498	600	700	•	•	•	•	•	•	•	•
630	628	730	830	•	•	•	•	•	•	•	•
710	708	810	910	•	•	•	•	•	•	•	•
800	798	900	1000	•	•	•	•	•	•	•	•



BCC • CONTROL COVER



Material

The frame of the product is manufactured from extruded aluminium profile and cover is manufactured from galvanized sheet. Also there is fiberglass inside of the cover.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw



Insulation Thickness

- Single walled insulation
- Double walled insulation



Model

- BCC: Control Cover



Usage

Control covers are used for interfering easily in all installations such as air handling units in ventilation system applications where maintenance is needed. Control covers can be opened and closed by the special lock mechanism on its frame

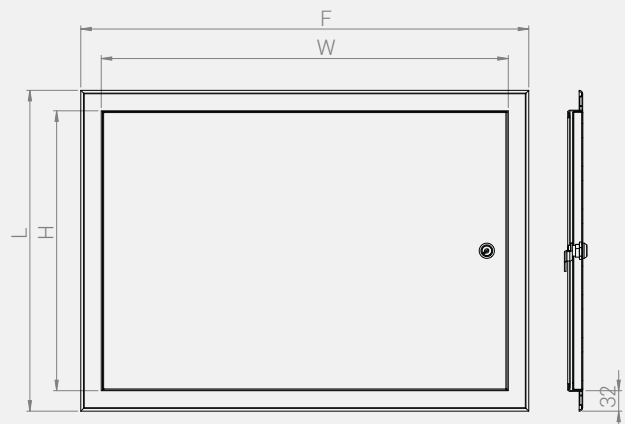


Dimensions

W (mm) : Neck length
H (mm) : Neck width
F (mm) : Frame length
L (mm) : Frame width

Standard Dimensions

F (mm)	L (mm)	Dimensions for duct connection (mm)
150	150	100x100
200	200	150x150
250	250	200x200
300	300	250x250
350	350	300x300
400	400	350x350
450	450	400x400
500	500	450x450
550	550	500x500
600	600	550x550
650	650	600x600
700	700	650x650



BAD • INTERVENTION COVER



Material

Product frame is manufactured from aluminium profile and the cover is from galvanized sheet.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in other RAL codes can be provided too



Assembly

- Installation with screw



Frame Types

- 32 mm frame



Model

- BAD: Intervention Cover



Usage

It is used at ventilation system applications, air handling units and all similar installations for interfering easily to places where it is necessary to maintenance. It is opened and closed by snap fastener mechanism which placed inside the frame.

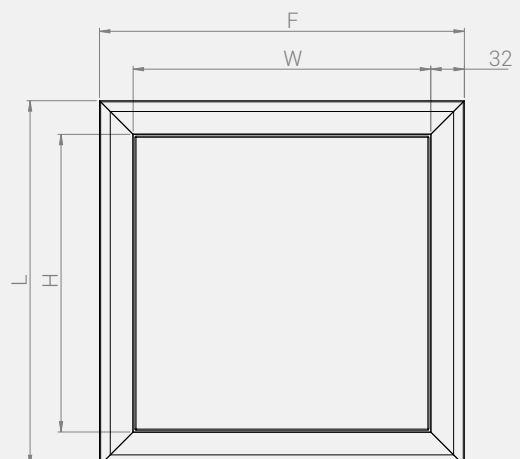


Dimensions

W (mm) : Neck length
H (mm) : Neck width
F (mm) : Frame length
L (mm) : Frame width

Standard Dimensions

F (mm)	L (mm)	Dimensions for duct connection (mm)
150	150	100x100
200	200	150x150
250	250	200x200
300	300	250x250
350	350	300x300
400	400	350x350
450	450	400x400
500	500	450x450
550	550	500x500
600	600	550x550
650	650	600x600
700	700	650x650



BADEGG • EGG CRATE INTERVENTION COVER



Material

Product frame is made from aluminum and its wings are made from aluminum stripe.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw



Frame Types

- 32 mm frame



Model

- BADEGG: Egg crate intervention cover, 12 x 12 mm or 20 x 20 mm egg crate spaced



Usage

Egg crate intervention cover is used for supply register for ventilation systems and provides easy intervention when the unit failure occurs.

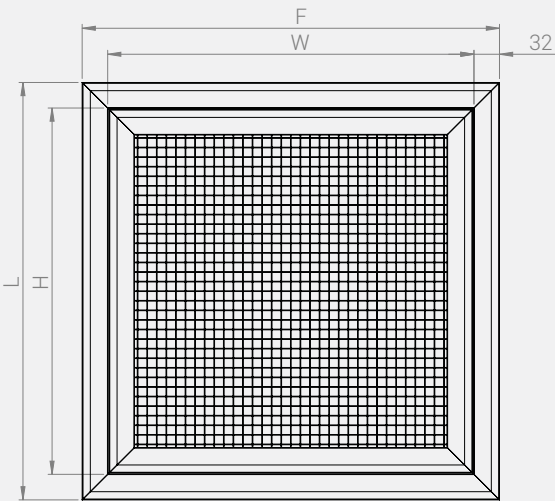


Dimensions

W (mm) : Neck length
H (mm) : Neck width
F (mm) : Frame length
L (mm) : Frame width

Standard Dimensions

F (mm)	L (mm)	Dimensions for duct connection (mm)
150	150	100x100
200	200	150x150
250	250	200x200
300	300	250x250
350	350	300x300
400	400	350x350
450	450	400x400
500	500	450x450
550	550	500x500
600	600	550x550
650	650	600x600
700	700	650x650



BADWB • LOURVE INTERVENTION COVER

BADLG • LINEAR INTERVENTION COVER



Material

Products are manufactured from aluminium profile.



Coating

- Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with screw



Frame Types

- 32 mm frame



Model

- BADWB: Louvre Intervention Cover
- BADLG: Linear Intervention Cover



Usage

It is used at ventilation system applications, air handling units and all similar installations for interfering easily to places where it is necessary to maintenance. It is opened and closed by snapfastener mechanism which placed inside the frame.

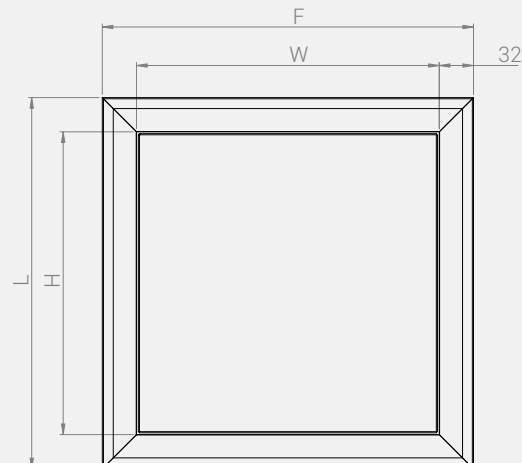


Dimensions

W (mm) : Neck length
H (mm) : Neck width
F (mm) : Frame length
L (mm) : Frame width

Standard Dimensions

F (mm)	L (mm)	Dimensions for duct connection (mm)
150	150	100x100
200	200	150x150
250	250	200x200
300	300	250x250
350	350	300x300
400	400	350x350
450	450	400x400
500	500	450x450
550	550	500x500
600	600	550x550
650	650	600x600
700	700	650x650



BFD-CS • FIRE DAMPER WITH EN 1366-2 CERTIFICATION



BFD-CS Fire Damper with EN1366-2:1999 (EI 120 S) certification and CE marklet.



Material

Product casing from 1.5 mm galvanized sheet, motor damper handle is manufactured from galvanized DKP sheet. Steel is used at all motorblade power transmission elements steel, calcium silicate with 30mm thickness is used at blade and intumescent materials are used at junction of two casings. Also ceramic material is used at junction of two casing for thermal insulation. Our fire damper is EN 1366:2 (EI 120 S) and CE certificated between 250x250 mm to 1000x800 mm.



Assembly

- Assembly to air duct
- Assembly to fire shaft wll



Model

- BFD-CS: Motorized Fire Damper With EN 1366-2 Certification



Usage

Fire damper is used for preventing fire and smoke to spread out to other locations through air ducts. Our fire damper is also suitable for mounting to the shaft wall. Thermal sensor at damper's motor triggers the damper blade by return spring in order to close the damper when the temperature reaches to 72°C and prevent the fire to spread to other locations. Servomotor can be also controlled by the automation system.



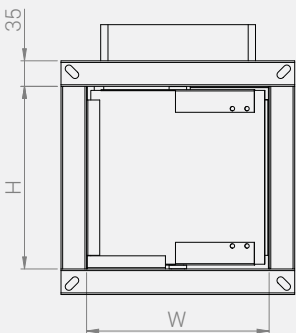
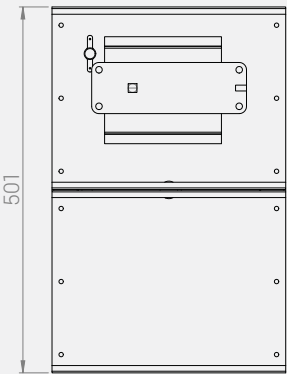
Dimensions

W (mm) : Neck length
H (mm) : Neck width

Standard Dimensions

Standard Dimensions (WxH) (mm)	Efective Area (m²)	Recommended Max. Flow Rate (m³/h)
300 x 250	0,051	1100
400 x 250	0,070	1520
300 x 300	0,064	1390
400 x 300	0,088	1900
500 x 300	0,112	2420
400 x 400	0,125	2700
600 x 400	0,193	4170
600 x 500	0,250	5400
800 x 500	0,338	7300
700 x 600	0,361	7800
900 x 600	0,469	10130
800 x 700	0,492	10630
1000 x 700	0,620	13400
800 x 800	0,569	12290
1000 x 800	0,717	15490

BFD-CS Fire Damper Standard Dimensions, Efficve Area and Fw Rate Chart



BFDQ • RECTANGULAR FIRE DAMPER



Material

Products casing and blades are manufactured from 1,5 mm galvanized sheet and damper handle is manufactured from 5 mm galvanized DKP sheet. Furthermore, fire resistant rockwool with 70 kg/m3 density and 20 mm thickness is used between the walls of blades.



Assembly

- Installation to air duct.
- Installation to wall with wall transition piece.



Accessories

- WTP : Wall transition piece
- SM : Servomotor (24 Volt veya 220 Volt).



Model

- BFDQ: Rectangular fire damper with fusible link that melts at 72°C



Usage

Fire dampers are used for preventing the spread of fire and smoke through ventilation systems in the buildings. When the fusible link mechanism reaches to 72°C, it closes the damper blade by driving the return spring and by that it prevents the fire to spread to other environments. Fire dampers also can be controlled with servomotor by automation system. In smoke dampers, the damper is opened by 24 Volt or 220 Volt commanded servomotor according to the signal that comes from automation system and the smoke extraction is done. Fusible link is fixed to the surface where the damper handle is attached, in such way that it can be replaced easily. Installation of casing sheets to each other is made with bolt and nut. Fire resistant, impermeable silicone is applied to joints.

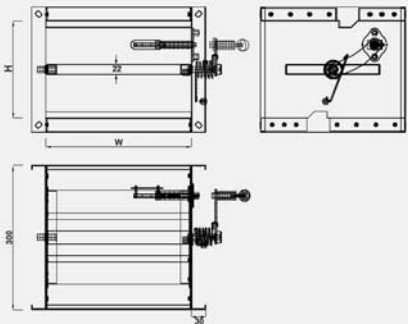


Dimensions

W (mm) : Neck Length
H (mm) : Neck Width

Standard Dimensions

H(mm)	W(mm)																		
	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
100	•	•	•	•	•	•	•	•	•	•	•	•	•						
150	•	•	•	•	•	•	•	•	•	•	•	•	•						
200	•	•	•	•	•	•	•	•	•	•	•	•	•						
250	•	•	•	•	•	•	•	•	•	•	•	•	•						
300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
350	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
400	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
450	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
500	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
550	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
600	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
650	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
700	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
750	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
850	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
900	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
950	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1000	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•



BFDCQ • FIRE DAMPER WITH MULTI BLADES



Material

Products casing and blades are manufactured from 1,5 mm galvanized sheet and damper handle is manufactured from 5 mm DKP sheet. Furthermore, fire resistant rockwool with 70 kg/m³ density and 20 mm thickness is used between the walls of blades.



Assembly

- Installation to air duct
- Installation to wall with wall transition piece



Accessories

- WTP : Wall Transition Piece
- SM : Servomotor



Model

- BFDCQ: Fire Damper With Multi Blades



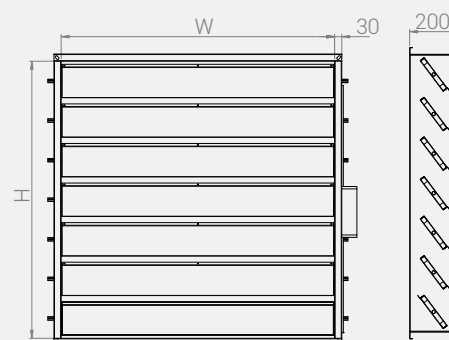
Usage

Fire dampers are used for preventing the spread of fire and smoke through ventilation systems in the buildings. Fire damper can be controlled with servomotor by automation system. In smoke dampers, the damper is opened by 24 Volt or 220 Volt commanded servomotor according to the signal that comes from automation system and the smoke extraction is done. Installation of casing sheets to each other is made with bolt and nut. Fire resistant, impermeable silicone is applied to joints.



Dimensions

W (mm) : Neck Length
H (mm) : Neck Width



Standard Dimensions

H (mm)	A _{eff} (m ²)																	
	W (mm)																	
	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
400	0,134	0,151	0,167	0,184	0,201	0,217	0,234	0,251	0,268	0,284	0,301	0,318	0,335	0,351	0,368	0,385	0,401	0,418
450	0,151	0,169	0,188	0,207	0,226	0,245	0,263	0,282	0,301	0,320	0,339	0,358	0,376	0,395	0,414	0,433	0,452	0,470
500	0,167	0,188	0,209	0,230	0,251	0,272	0,293	0,314	0,335	0,355	0,376	0,397	0,418	0,439	0,460	0,481	0,502	0,523
550	0,184	0,207	0,230	0,253	0,276	0,299	0,322	0,345	0,368	0,391	0,414	0,437	0,460	0,483	0,506	0,529	0,552	0,575
600	0,201	0,226	0,251	0,276	0,301	0,326	0,351	0,376	0,401	0,426	0,452	0,477	0,502	0,527	0,552	0,577	0,602	0,627
650	0,217	0,245	0,272	0,299	0,326	0,353	0,381	0,408	0,435	0,462	0,489	0,516	0,544	0,571	0,598	0,625	0,652	0,679
700	0,234	0,263	0,293	0,322	0,351	0,381	0,410	0,439	0,468	0,498	0,527	0,556	0,585	0,615	0,644	0,673	0,702	0,732
750	0,251	0,282	0,314	0,345	0,376	0,408	0,439	0,470	0,502	0,533	0,564	0,596	0,627	0,659	0,690	0,721	0,753	0,784
800	0,268	0,301	0,335	0,368	0,401	0,435	0,468	0,502	0,535	0,569	0,602	0,636	0,669	0,702	0,736	0,769	0,803	0,836
850	0,284	0,320	0,355	0,391	0,426	0,462	0,498	0,533	0,569	0,604	0,640	0,675	0,711	0,746	0,782	0,817	0,853	0,889
900	0,301	0,339	0,376	0,414	0,452	0,489	0,527	0,564	0,602	0,640	0,677	0,715	0,753	0,790	0,828	0,866	0,903	0,941
950	0,318	0,358	0,397	0,437	0,477	0,516	0,556	0,596	0,636	0,675	0,715	0,755	0,794	0,834	0,874	0,914	0,953	0,993
1000	0,335	0,376	0,418	0,460	0,502	0,544	0,585	0,627	0,669	0,711	0,753	0,794	0,836	0,878	0,920	0,962	1,004	1,045
1050	0,351	0,395	0,439	0,483	0,527	0,571	0,615	0,659	0,702	0,746	0,790	0,834	0,878	0,922	0,966	1,010	1,054	1,098
1100	0,368	0,414	0,460	0,506	0,552	0,598	0,644	0,690	0,736	0,782	0,828	0,874	0,920	0,966	1,012	1,058	1,104	1,150
1150	0,385	0,433	0,481	0,529	0,577	0,625	0,673	0,721	0,769	0,817	0,866	0,914	0,962	1,010	1,058	1,106	1,154	1,202
1200	0,401	0,452	0,502	0,552	0,602	0,652	0,702	0,753	0,803	0,853	0,903	0,953	1,004	1,054	1,104	1,154	1,204	1,254
1250	0,418	0,470	0,523	0,575	0,627	0,679	0,732	0,784	0,836	0,889	0,941	0,993	1,045	1,098	1,150	1,202	1,254	1,307

BFDR • CIRCULAR FIRE DAMPER



Material

Products casing and blades are manufactured from 1,5 mm galvanized sheet and damper handle is manufactured from 5 mm galvanized DKP sheet. Furthermore, fire resistant rockwool with 70 kg/m³ density and 20 mm thickness is used between the walls of blades.



Assembly

- Installation to air duct.
- Installation to wall with wall transition piece.



Accessories

- WTP : Wall transition piece
- SM : Servomotor (24 Volt veya 220 Volt).



Model

- BFDR: Circular fire damper with fusible link that melts at 72°C



Usage

Fire dampers are used for preventing the spread of fire and smoke through ventilation systems in the buildings. When the fusible link mechanism reaches to 72°C, it closes the damper blade by driving the return spring and by that it prevents the fire to spread to other environments. Fire dampers also can be controlled with servomotor by automation system. In smoke dampers, the damper is opened by 24 Volt or 220 Volt commanded servomotor according to the signal that comes from automation system and the smoke extraction is done. Fusible link is fixed to the surface where the damper handle is attached, in such way that it can be replaced easily.

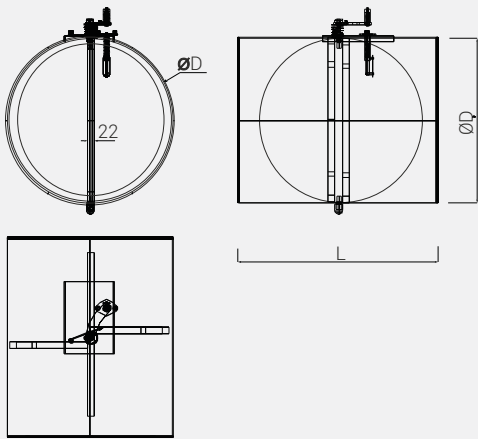


Dimensions

W (mm) : Circular fire damper nominal diameter
H (mm) : Circular fire damper length

Standard Dimensions

ØD (mm)	L (mm)
100	200
125	225
150	250
160	260
200	300
250	350
300	400
350	450
400	500
500	600
600	700
800	900
1000	1100
1200	1300
1400	1500



BVCD-S • SMOKE EVACUATION DAMPER SHAFT DAMPER



Material

Product casing is manufactured from 1,50 mm thick galvanized steel sheet, blades are manufactured from aluminium profile or galvanized steel sheet according to customer demand. Blade slots are manufactured from bronze material and blade mechanism is manufactured from stainless steel. Blades operate as parallel to each other. They work with fire damper actuator or smoke damper actuator according to the place they are working.



Assembly

- Assembly to air duct – Assembly with bolt and clamps
- Assembly to concrete slot – Special casing design can be installed with screws to box profile.



Accessories

- Limit Switch
- SM : Servo Motor



Model

- BVCD-SA: Smoke Evacuation Damper (Shaft Damper) With Aluminium Profile Blade
- BVCD-SG: Smoke Evacuation Damper (Shaft Damper) With Galvanized Sheet Blade

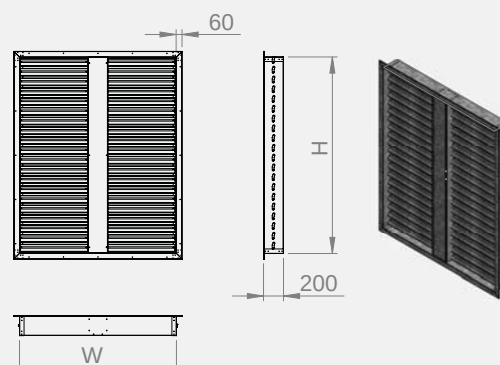


Usage

In case of fire if the smoke and heat are discharged to atmosphere in a controlled manner, fire-fighters can work more comfortably in rescuing, cooling and extinguishing processes. Smoke and heat of fire will be discharged before spreading to other areas and therefore the products, systems and building components in the whole building will not be damaged and the total damage will be reduced. Acceleration of fire will be reduced by preventing the accumulation of heat inside and the products and systems in the ambient will not be allowed to reach to combustion temperature. Toxic gases will not be allowed to remain inside. Static of structure will not be distorted by preventing accumulated heat to effect to structural components. In single-storey buildings, indoor parking garages, underground transportation systems, dome architectures and big shaft and elevator well without positive pressurization, accumulation of heat and smoke in the upper altitudes happens very quickly. If smoke and heat won't discharged with dampers, smoke collapses down and spreads horizontally and steel structure carriers' properties deteriorate.

Standard Dimensions

W(mm)	A _{eff} (m ^{1/2})										
	H (mm)										
1000	0,67	0,74	0,8	0,87	0,93	1	1,07	1,13	1,19	1,26	1,32
1100	0,75	0,83	0,9	0,97	1,04	1,12	1,19	1,26	1,33	1,41	1,48
1200	0,83	0,92	1	1,08	1,16	1,24	1,32	1,4	1,48	1,56	1,64
1300	0,92	1,02	1,1	1,19	1,27	1,36	1,45	1,54	1,63	1,72	1,81
1400	1	1,1	1,19	1,29	1,39	1,49	1,58	1,68	1,78	1,88	1,97
1500	1,08	1,19	1,29	1,4	1,5	1,61	1,71	1,82	1,92	2,03	2,14
1600	1,17	1,28	1,39	1,51	1,62	1,74	1,85	1,96	2,07	2,19	2,3
1700	1,25	1,37	1,49	1,61	1,73	1,86	1,98	2,1	2,22	2,34	2,46
1800	1,33	1,46	1,59	1,72	1,85	1,98	2,11	2,24	2,37	2,5	2,63



BVCD-L • SMOKE EVACUATION DAMPER WITH GRILLE



Material

Product casing is manufactured from 1,50 mm thick galvanized steel sheet, blades are manufactured from aluminium profile or galvanized steel sheet according to customer demand. Blade slots are manufactured from bronze material and blade mechanism is manufactured from stainless steel. Blades operate as parallel to each other. They work with fire damper actuator or smoke damper actuator according to the place they are working.



Montaj

- Assembly to concrete slot – Special casing design can be installed with screws to box profile.



Model

- BVCD-L: Smoke Evacuation Damper with Grille



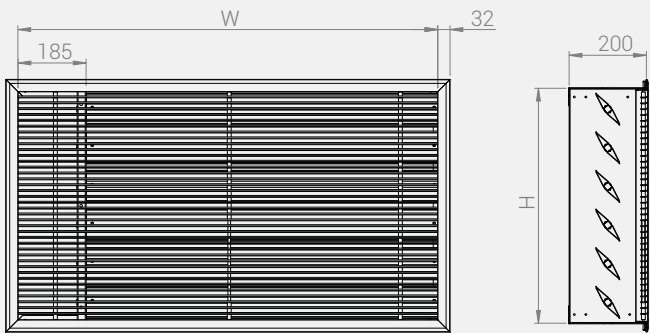
Usage

In case the smoke and heat that composed during fire, are discharged to atmosphere in a controlled manner, fire-fighters can work more comfortably in rescuing, cooling and extinguishing processes. Static of structure will not be distorted by preventing accumulated heat to effect the structural components. In single-storey buildings, indoor parking garages, underground transportation systems, dome architectures and big shaft and elevator well without positive pressurization, accumulation of heat and smoke in the upper altitudes happens very quickly. If smoke and heat won't discharged with dampers, smoke collapses down and spreads horizontally and properties of steel structure carriers deteriorate. The damper is looking decorative, thanks to the linear grille in front of the damper.



Dimensions

W (mm) : Neck width
H (mm) : Neck height



Standard Dimensions

W(mm)	Aeff (m²)											
	H (mm)											
300	400	500	600	700	800	900	1000	1100	1200	1300		
400	0,054	0,07	0,087	0,105	0,122	0,14	0,157	0,174	0,192	0,21	0,227	
500	0,077	0,103	0,129	0,154	0,18	0,206	0,232	0,257	0,283	0,309	0,335	
600	0,102	0,136	0,17	0,204	0,238	0,272	0,306	0,34	0,374	0,408	0,442	
700	0,127	0,169	0,212	0,254	0,296	0,339	0,381	0,423	0,466	0,508	0,55	
800	0,152	0,203	0,253	0,304	0,354	0,405	0,456	0,506	0,557	0,608	0,659	
900	0,177	0,236	0,295	0,354	0,413	0,472	0,53	0,59	0,649	0,708	0,766	
1000	0,202	0,269	0,336	0,403	0,471	0,538	0,605	0,672	0,74	0,807	0,874	
1100	0,227	0,302	0,378	0,453	0,529	0,604	0,684	0,755	0,831	0,906	0,982	
1200	0,252	0,335	0,42	0,503	0,587	0,671	0,754	0,839	0,922	1,006	1,09	
1300	0,276	0,369	0,461	0,553	0,645	0,737	0,83	0,922	1,014	1,106	1,198	

BVCD • RECTANGULAR VOLUME DAMPER



Coating

- Electrostatic powder coating
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with bolt.



Accessories

- SM: Servomotor (24 Volt veya 220 Volt).



Model

- BVCD: Rectangular Volume Damper



Material

Products casing and blades are manufactured from extruded aluminium profile.



Usage

Rectangular volume control dampers are used for control the flow rate and pressure in ventilation ducts. Opposed blades in damper have aerodynamic structure to reduce the frictional resistance of the air. Flow rate is adjusted with metal command handle according to OPEN - CLOSED and interval values that are written on the handle.

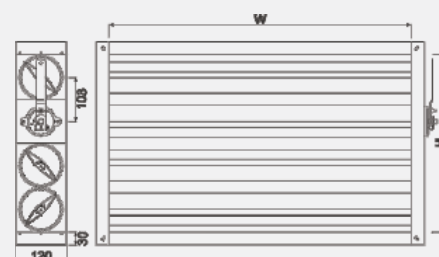


Dimensions

W (mm) : Neck length
H (mm) : Neck width
 A_{eff} (m²) : Effective area

Standard Dimensions

W (mm)	A_{eff} (mm)															
	H (mm)															
	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000		
100	0,018	0,026	0,034	0,042	0,051	0,059	0,067	0,075	0,083	0,099	0,115	0,132	0,148	0,164		
150	0,027	0,039	0,051	0,064	0,076	0,088	0,100	0,112	0,124	0,149	0,173	0,197	0,222	0,246		
200	0,036	0,052	0,069	0,085	0,101	0,117	0,133	0,150	0,166	0,198	0,231	0,263	0,295	0,328		
250	0,045	0,066	0,086	0,106	0,126	0,147	0,167	0,187	0,207	0,248	0,288	0,329	0,369	0,410		
300	0,054	0,079	0,103	0,127	0,152	0,176	0,200	0,224	0,249	0,297	0,346	0,395	0,443	0,492		
350	0,063	0,092	0,120	0,148	0,177	0,205	0,233	0,262	0,290	0,347	0,404	0,460	0,517	0,574		
400	0,072	0,105	0,137	0,170	0,202	0,234	0,267	0,299	0,332	0,396	0,461	0,526	0,591	0,656		
450	0,081	0,118	0,154	0,191	0,227	0,264	0,300	0,337	0,373	0,446	0,519	0,592	0,665	0,738		
500	0,091	0,131	0,172	0,212	0,253	0,293	0,334	0,374	0,415	0,496	0,577	0,658	0,739	0,820		
600	0,109	0,157	0,206	0,254	0,303	0,352	0,400	0,449	0,497	0,595	0,692	0,789	0,886	0,983		
700	0,127	0,183	0,240	0,297	0,354	0,410	0,467	0,524	0,580	0,694	0,807	0,921	1,034	1,147		
800	0,145	0,210	0,274	0,339	0,404	0,469	0,534	0,598	0,663	0,793	0,922	1,052	1,182	1,311		
900	0,163	0,236	0,309	0,382	0,455	0,527	0,600	0,673	0,746	0,892	1,038	1,184	1,329	1,475		
1000	0,181	0,262	0,343	0,424	0,505	0,586	0,667	0,748	0,829	0,991	1,153	1,315	1,477	1,639		
1100	0,199	0,288	0,377	0,466	0,556	0,645	0,734	0,823	0,912	1,090	1,268	1,447	1,625	1,803		
1200	0,217	0,314	0,412	0,509	0,606	0,703	0,800	0,898	0,995	1,189	1,384	1,578	1,772	1,967		
1300	0,235	0,341	0,446	0,551	0,657	0,762	0,867	0,972	1,078	1,288	1,499	1,710	1,920	2,131		
1400	0,253	0,367	0,480	0,594	0,707	0,820	0,934	1,047	1,161	1,387	1,614	1,841	2,068	2,295		
1500	0,272	0,393	0,515	0,636	0,758	0,879	1,001	1,122	1,244	1,487	1,730	1,973	2,216	2,459		
1600	0,290	0,419	0,549	0,678	0,808	0,938	1,067	1,197	1,326	1,586	1,845	2,104	2,363	2,622		
1700	0,308	0,445	0,583	0,721	0,859	0,996	1,134	1,272	1,409	1,685	1,960	2,236	2,511	2,786		
1800	0,326	0,472	0,617	0,763	0,909	1,055	1,201	1,346	1,492	1,784	2,075	2,367	2,659	2,950		
1900	0,344	0,498	0,652	0,806	0,960	1,113	1,267	1,421	1,575	1,883	2,191	2,499	2,806	3,114		
2000	0,362	0,524	0,686	0,848	1,010	1,172	1,334	1,496	1,658	1,982	2,306	2,630	2,954	3,278		



BVCDBB • VOLUME DAMPER WITH BRONZE BEARING



Coating

- Electrostatic powder coating
- Anodized Aluminum
- Depending on demand, all other colors in RAL codes can be provided



Assembly

- Installation with bolt



Accessories

- SM: Servomotor (24 Volt veya 220 Volt).



Model

- BVCDBB: Volume Damper with Bronze Bearing



Material

Products casing is manufactured from 1,5 mm galvanized sheet and blades are manufactured from aluminium profile. Blade slots are manufactured from bronze material and blade mechanism is manufactured from stainless steel. Blades operate parallel to each other.



Usage

Volume control dampers are used to control the flow rate and pressure in ventilation ducts. Opposed blades in damper have aerodynamic structure to reduce the frictional resistance of the air. Flow rate is adjusted with metal command handle according to OPEN-CLOSED and interval values that are written on the handle. Volume dampers also can be controlled with servomotor by automation system.

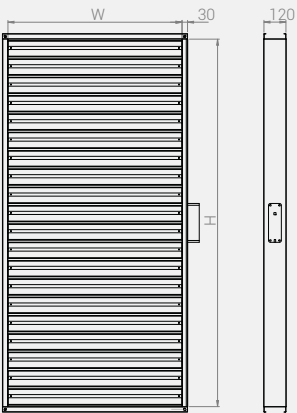


Dimesions

W (mm) : Neck Lenght
H (mm) : Neck Width
 A_{eff} (m²) : Effective Area

Standard Dimensions

H (mm)	A _{eff} (m ²)																	
	W (mm)																	
	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200	1250
400	0,136	0,153	0,170	0,187	0,204	0,221	0,238	0,255	0,272	0,289	0,306	0,323	0,340	0,357	0,374	0,391	0,408	0,425
450	0,153	0,172	0,191	0,211	0,230	0,249	0,268	0,287	0,306	0,325	0,345	0,364	0,383	0,402	0,421	0,440	0,459	0,479
500	0,170	0,191	0,213	0,234	0,255	0,277	0,298	0,319	0,340	0,362	0,383	0,404	0,425	0,447	0,468	0,489	0,510	0,532
550	0,187	0,211	0,234	0,257	0,281	0,304	0,328	0,351	0,374	0,398	0,421	0,445	0,468	0,491	0,515	0,538	0,562	0,585
600	0,204	0,230	0,255	0,281	0,306	0,332	0,357	0,383	0,408	0,434	0,459	0,485	0,510	0,536	0,562	0,587	0,613	0,638
650	0,221	0,249	0,277	0,304	0,332	0,359	0,387	0,415	0,442	0,470	0,498	0,525	0,553	0,581	0,608	0,636	0,664	0,691
700	0,238	0,268	0,298	0,328	0,357	0,387	0,417	0,447	0,476	0,506	0,536	0,566	0,596	0,625	0,655	0,685	0,715	0,744
750	0,255	0,287	0,319	0,351	0,383	0,415	0,447	0,479	0,510	0,542	0,574	0,606	0,638	0,670	0,702	0,734	0,766	0,798
800	0,272	0,306	0,340	0,374	0,408	0,442	0,476	0,510	0,545	0,579	0,613	0,647	0,681	0,715	0,749	0,783	0,817	0,851
850	0,289	0,325	0,362	0,398	0,434	0,470	0,506	0,542	0,579	0,615	0,651	0,687	0,723	0,759	0,796	0,832	0,868	0,904
900	0,306	0,345	0,383	0,421	0,459	0,498	0,536	0,574	0,613	0,651	0,689	0,727	0,766	0,804	0,842	0,881	0,919	0,957
950	0,323	0,364	0,404	0,445	0,485	0,525	0,566	0,606	0,647	0,687	0,727	0,768	0,808	0,849	0,889	0,930	0,970	1,010
1000	0,340	0,383	0,425	0,468	0,510	0,553	0,596	0,638	0,681	0,723	0,766	0,808	0,851	0,893	0,936	0,978	1,021	1,064
1050	0,357	0,402	0,447	0,491	0,536	0,581	0,625	0,670	0,715	0,759	0,804	0,849	0,893	0,938	0,983	1,027	1,072	1,117
1100	0,374	0,421	0,468	0,515	0,562	0,608	0,655	0,702	0,749	0,796	0,842	0,889	0,936	0,983	1,029	1,076	1,123	1,170
1150	0,391	0,440	0,489	0,538	0,587	0,636	0,685	0,734	0,783	0,832	0,881	0,930	0,978	1,027	1,076	1,125	1,174	1,223
1200	0,408	0,459	0,510	0,562	0,613	0,664	0,715	0,766	0,817	0,868	0,919	0,970	1,021	1,072	1,123	1,174	1,225	1,276
1250	0,425	0,479	0,532	0,585	0,638	0,691	0,744	0,798	0,851	0,904	0,957	1,010	1,064	1,117	1,170	1,223	1,276	1,329



BVCD-R&P • CIRCULAR VOLUME DAMPER WITH PERFORATED FLAP



Material
Product frame, its damper and damper lever are manufactured from galvanised sheet, perforated galvanised sheet and galvanised sheet or PVC material respectively.



Coating
■ All other Ral codes can be provided, on demand.



Assembly
■ Screw assembly to circular section duct.



Model
■ BVCD-R&P : Circular Volume Damper with Perforated Flap



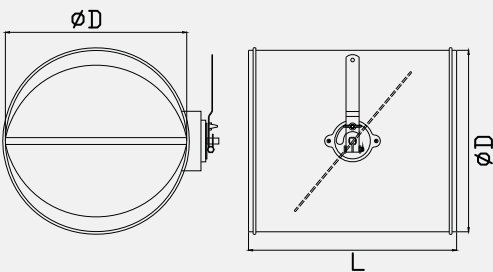
Usage
Circular volume damper with perforated flap provides flow rate arrangement for round ducts. Flow rate arrangement is done three different levels open, close and intermediate value position. In order to use with flexible ducts, both sides of the damper are processed.



Dimensions
ØD (mm) : Neck diameter of circular volume damper with perforated flap
L (mm) : Length of circular volume damper with perforated flap

Standard Dimensions

Dimensions	Ø D (mm)	L (mm)
160	160	210
180	180	230
200	203	250
225	229	275
250	254	300
280	280	330
300	305	350
350	356	400
400	406	450



BVCD-G • VOLUME DAMPER WITH GASKET



Material

Casing and blades of the product is manufactured from extruded aluminium profile.



Coating

Product is manufactured in aluminium-die colored as standard. It can be coated with electrostatic powder coating or anodized aluminium, on demand.



Accessories

- SM: Servomotor



Model

- BVCDDB: Volume Damper with Gasket



Usage

Air volume damper with gasket is used for adjusting air flow rate and pressure in air handling units, air ducts and similar systems. The width of blade is 108 mm and with the help of the aerodynamic structure of blades the resistance occuring against air flow is reduced to minimum. Blades are driven oppositely by the gear mechanism manufactured from PVC material. This feature simplifies the flow rate control. Maximum impermeability is provided by gaskets on blades. Also flow rate adjustment is made with the metal command handle as OPEN-CLOSE and interval values written on the handle.

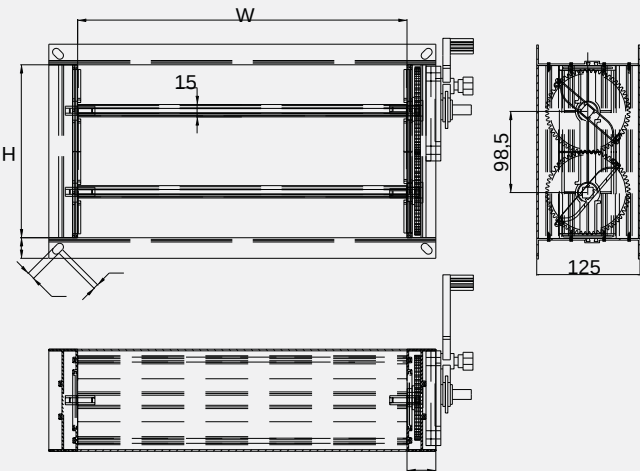


Dimensions

W (mm) : Neck length
H (mm) : Neck width

Standard Dimensions

W (mm)	A _{eff} (m ²)									
	H (mm)									
200	0,016	0,024	0,033	0,041	0,049	0,058	0,067	0,075	0,084	0,101
300	0,023	0,036	0,049	0,062	0,074	0,087	0,099	0,113	0,125	0,151
400	0,031	0,048	0,065	0,082	0,099	0,116	0,133	0,150	0,167	0,201
500	0,039	0,060	0,081	0,103	0,124	0,145	0,166	0,188	0,209	0,251
600	0,047	0,072	0,098	0,123	0,149	0,174	0,199	0,225	0,251	0,302
700	0,054	0,084	0,114	0,144	0,173	0,203	0,233	0,263	0,292	0,352
800	0,062	0,096	0,130	0,164	0,198	0,232	0,266	0,300	0,334	0,402
900	0,069	0,108	0,146	0,185	0,223	0,261	0,299	0,338	0,376	0,452
1000	0,078	0,120	0,163	0,205	0,248	0,290	0,333	0,375	0,418	0,503
1100	0,093	0,144	0,195	0,246	0,297	0,348	0,399	0,450	0,501	0,603
1200	0,109	0,168	0,228	0,287	0,347	0,406	0,466	0,525	0,585	0,704
200	0,124	0,192	0,260	0,328	0,396	0,464	0,532	0,600	0,668	0,804
300	0,139	0,216	0,293	0,369	0,446	0,522	0,599	0,675	0,752	0,905
400	0,155	0,240	0,325	0,410	0,495	0,580	0,665	0,750	0,835	1,005
500	0,171	0,264	0,358	0,451	0,545	0,638	0,732	0,825	0,919	1,106
600	0,186	0,288	0,390	0,492	0,594	0,696	0,798	0,900	1,002	1,206



BVCD-R • CIRCULAR SECTION
VOLUME DAMPER



Material

Product casing is manufactured from galvanized sheet and flap is from galvanized DKP sheet. Also, flap handle application from PVC material is available.



Coating

■ Depending on demand, all the colors in other RAL codes are provided too.



Assembly

■ Installation with bolt.



Accessories

■ SM: Servomotor



Model

■ BVCD-R : Circular Section Volume Damper



Usage

They are used for providing the flow rate adjustment in round air ducts. Flow rate adjustment is made according to OPEN - CLOSED and interval values that are written on flap handle. Cordon is formed on both sides of the damper in order to use the product in flexible ducts.

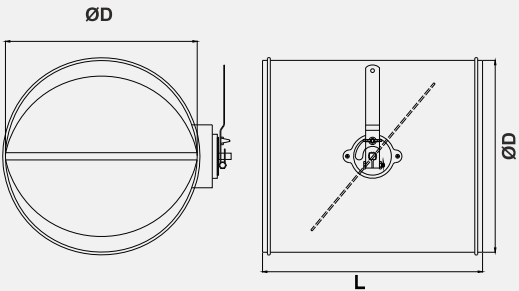


Dimensions

ØD (mm) : Neck diameter of circular volume damper
L (mm) : Length of circular volume damper

Standard Dimensions

Dimension	ØD (mm)	L (mm)
160	160	210
180	180	230
200	203	250
225	229	275
250	254	300
280	280	330
300	305	350
350	356	400
400	406	450



BID • IRIS DAMPER



Material

Product is manufactured from galvanized steel sheet and equipped with a measurement scale and measurement connections. The control knob that is resistant to fracture is adjusted with the provided switch.



Assembly

- Installation to duct with rivet or self tapping screw.
- Installation to flexible air ducts by using tape or clips.



Model

- BID: Iris Damper



Usage

Iris dampers are used for air flow rate adjustment and measurement in round air ducts. A uniform air flow rate occurs in the duct cross section due to its decreasing orifice structure. Closure of the iris damper creates a uniform air flow rate adjustment with a homogenous air flow. There are manometer connections in order to measure the differential pressure in dampers. The measurement accuracy of the damper is $\pm 5\%$ and the operating temperature is between -10°C and $+80^{\circ}\text{C}$. Also, the connections should be sealed to prevent air leakage.

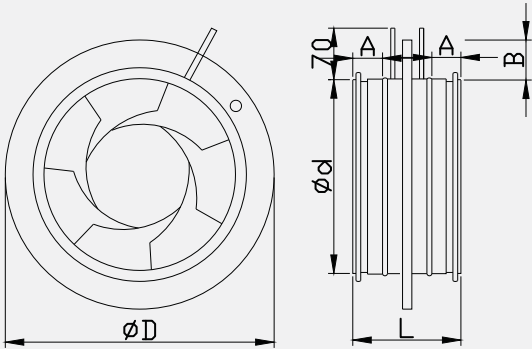


Dimensions

$\varnothing D$ (mm): Iris damper flange diameter
 $\varnothing d$ (mm): Iris damper nominal diameter
 L (mm): Iris damper length

Standard Dimensions

Dimensions	$\varnothing d$	$\varnothing D$	L	A	B	Weight (kg)
100	99	165	110	30	32	0,5
125	124	210	110	30	32	0,7
160	159	230	110	30	35	0,9
200	199	285	110	30	42	1,4
250	249	335	135	40	42	2,1
315	314	410	135	40	47	3,5



BBD-Q • BACK DRAFT DAMPER



Material

Casing and blades of product are manufactured from aluminium profile.



Assembly

- Assembly to air duct – Assembly with bolt and clamps.
- Assembly to concrete slot – Special casing design can be installed with screws to box profile.



Model

- BBD-QA : Back Draft Damper Suitable For Air Duct Assembly, With 100 mm Thick Sealed Blades
- BBD-QB : Back Draft Damper Suitable For Concrete Slot, With 150 mm Thick Blades

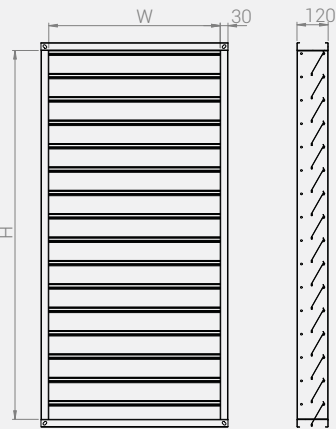


Usage

Back draft dampers are used for preventing unwanted return of air in supply or exhaust ducts. Damper opens proportional to the air thrust or it fully closes. Gradual adjustment can not be performed.

Standard Dimensions

W (mm)	A _{eff} (m ²)											
	H (mm)											
	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
400	0,116	0,144	0,173	0,202	0,231	0,26	0,288	0,317	0,346	0,375	0,404	0,432
500	0,144	0,18	0,216	0,252	0,288	0,324	0,36	0,396	0,432	0,468	0,504	0,54
600	0,173	0,216	0,26	0,303	0,346	0,389	0,432	0,476	0,519	0,562	0,605	0,648
700	0,202	0,252	0,303	0,353	0,404	0,454	0,504	0,555	0,605	0,656	0,706	0,756
800	0,231	0,288	0,346	0,404	0,461	0,519	0,576	0,634	0,692	0,749	0,807	0,864
900	0,26	0,324	0,389	0,454	0,519	0,584	0,648	0,713	0,778	0,843	0,908	0,972
1000	0,288	0,36	0,432	0,504	0,576	0,648	0,72	0,792	0,864	0,936	1,008	1,08
1100	0,317	0,396	0,476	0,555	0,634	0,713	0,792	0,872	0,951	1,03	1,109	1,188
1200	0,346	0,432	0,519	0,605	0,692	0,778	0,864	0,951	1,04	1,124	1,21	1,296
1300	0,375	0,468	0,562	0,656	0,749	0,843	0,936	1,03	1,124	1,217	1,311	1,404
1400	0,404	0,504	0,605	0,706	0,807	0,908	1,008	1,109	1,21	1,311	1,412	1,512
1500	0,432	0,54	0,648	0,756	0,864	0,972	1,08	1,188	1,296	1,404	1,512	1,62



BBD-R • CIRCULAR BACK DRAFT DAMPER



Material

Casing is made of galvanized steel sheet and blades are made of aluminium. Gaskets are used for providing better impermeability and reducing the sound level.



Properties

Flap opens under the effect of high pressure and when the pressure effect is gone it closes with the help of the spring.

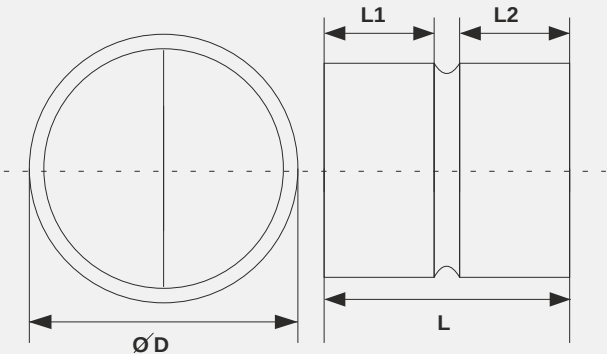


Model

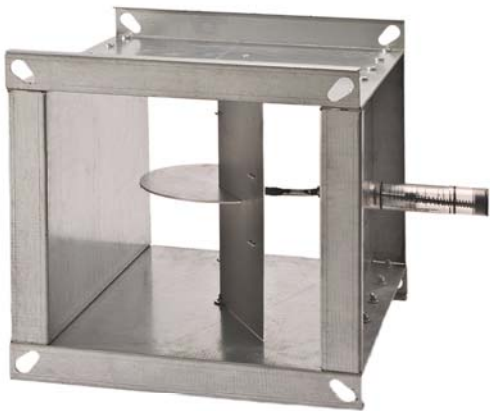
- BBD-R: Circular Back Draft Damper

Standard Dimensions

Model	ØD (mm)	L (mm)	L1 (mm)	L2 (mm)
BBD 100	100	80	24	33
BBD 125	125	100	33	44
BBD 150	150	100	34	43
BBD 160	160	120	42	55
BBD 200	200	140	55	62
BBD 250	250	140	54	62



BCAV • MECHANICAL CONSTANT
FLOW DAMPER



Usage

Mechanical constant flow damper achieves flow rate control both independently and at the same time without adhering to any electrical power. It adjusts the required air flow rate with its spring operated mechanism according to the pressure change by itself. Mechanical constant flow dampers are used for supply or exhaust of required fresh air with constant flow rate to places in ventilation systems. They are constant flow units which are operating by making its control mechanically by itself. They are used for supplying constant flow rate control at $\pm 10\%$ deviation ratio without requiring any servomotor. The required air flow rate can be changed via an allen wrench on the unit easily. They are produced as with circular and rectangular sections. It is more economic than motorized types due its being mechanical. It is used in pressure range of minimum 50 Pa and maximum 1000 Pa and air velocity range of 2 - 10 m/s.



Model

- BCAV-R: Circular section mechanical constant flow damper.
- BCAV-Q: Rectangular section mechanical constant flow damper.



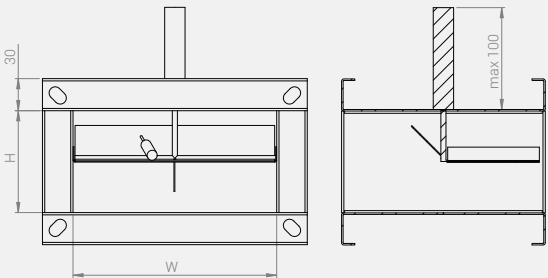
Material

Product external casing is manufactured from galvanized sheet, its internal components are from galvanized and aluminium sheet.



Usage

- ØD (mm) : Nominal diameter of circular-section CAV
- W (mm) : Rectangular-section CAV width
- H (mm) : Rectangular-section CAV height
- L (mm) : Circular or rectangular section CAV length



Standard Dimensions

For rectangular-section CAV:

Standard dimension W x H (mm)	L (mm)	Debi (m³/h)
150 x 150	200	150-800
300 x 150	200	300-1400
200 x 200	250	300-1600
300 x 200	250	400-2100
400 x 200	250	550-2800
300 x 300	350	600-3200
450 x 300	350	950-4800
600 x 300	350	1250-6400

For circular-section CAV:

Standard dimension ØD (mm)	L (mm)	Debi (m³/h)
Ø100	240	50-250
Ø125	240	80-400
Ø140	240	100-500
Ø160	240	130-670
Ø200	280	210-1000
Ø250	280	330-1650
Ø315	380	540-2700
Ø355	380	690-3400
Ø355	450	880-4400

BVAV-R • CIRCULAR SECTION VARIABLE VOLUME CONTROL DAMPER (VAV)



Material

The casing and blades of circular section VAV units are manufactured from galvanized sheet, blade impermeability is from silicone gasket.



Assembly

- Installation with self tapping screw to circular section duct.



Model

- BVAV-R: Circular Section Variable Volume Control Damper (VAV)



Usage

VAV terminal units are designed for applications with variable flow rate at high velocities in one duct and can be used for both supply and return. These can be used for and duties of control, configuration and closing in air conditioning systems. VAV units are designed for accurate measurement and control air flow rate. In VAV applications, the air volume going into the room, is controlled depending on the cooling load. Therefore, energy consumption is reduced.

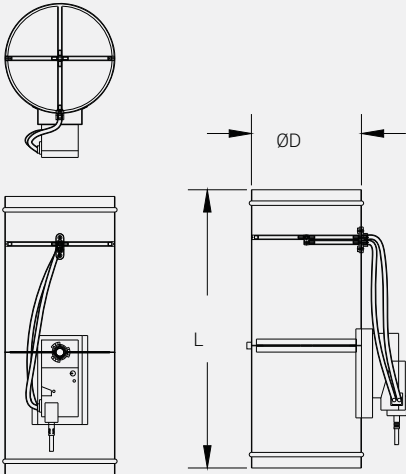


Dimensions

ØD (mm) : No minal diameter of circular-section VAV
L (mm) : Le ngth of circular-section VAV
3 Vmin. (m /h) : Air flow rate when air velocity is 2 m/s
3 Vnom. (m /h) : Air flow rate when air velocity is 12 m/s
3 Vmax. (m /h) : Demanded air flow rate between Vmin. and Vnom. limit values
u (m/s) : Air velocity at VAV unit inlet

Standard Dimensions

Dimension	u:2m/s V min. (m³/h)	u:12m/s V nom. (m³/h)	ØD (mm)	L (mm)
Ø125	90	520	123	450
Ø160	150	870	158	450
Ø200	230	1360	198	500
Ø250	360	2120	248	500
Ø315	560	3370	313	500
Ø355	710	4280	353	550
Ø400	910	5450	398	550



BHFB • HEPA FILTER BOX

**Material**

Hepa filter boxes are manufactured from 1,0 mm DKP sheet. After cleaning surfaces of product, phosphate treatment is made and it is painted with RAL 9010 or RAL 9016 electrostatic powder coating.

**Coating**

- Electrostatic powder painting (Standard color is RAL 9010)

**Assembly**

Hepa filter boxes are suitable for suspended ceiling installation. It can be hanged to ceiling with rods via the hanging holes on itself. It can be connected to main distribution duct with flexible duct. Flexible duct connection can be from top or side.

**Model**

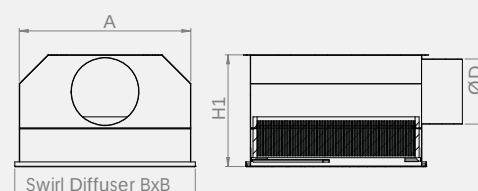
- BHFB: Hepa Filter Box

**Usage**

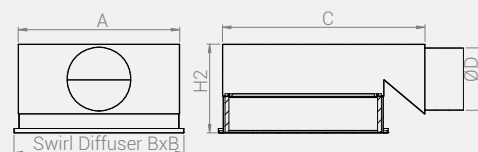
BSK hepa filter boxes are designed for imperviously installation of hepa filters which are used at the last outlet in clean rooms, laboratories, surgery rooms, hospitals, chemical industry, food industry and hygienic ventilation systems. All of the product is welded and its main body is impermeable due to hygienic environment. Mountage and demountage of filter is practical. There are differential pressure test outlets (to check filter pollution) as being standard. Hepa filter sets developed by BSK includes three main components: Hepa box, hepa filter and diffuser. The filters that are used can be within different classes from H10 to H14 according to the property required in the room.

Standard Dimensions

HEPA Box Dimensions (mm)			Swirl Diffuser Dimensions			
ØD (mm)	A (mm)	BxB (mm)	C (mm)	H1 (mm)	H2 (mm)	
305x305x78	150	325	360x360	475	310	245
457x457x78	200	477	510x510	630	360	295
535x535x78	200	555	595x595	705	360	295
575x575x78	250	595	630x630	750	410	345
610x610x78	250	630	665x665	790	410	345
305x305x150	150	325	360x360	475	385	245
457x457x150	200	477	512x512	630	430	395
535x535x150	200	555	595x595	705	430	395
575x575x150	250	595	630x630	750	480	345
610x610x150	250	630	665x665	790	480	345
610x610x292	250	630	665x665	790	630	345

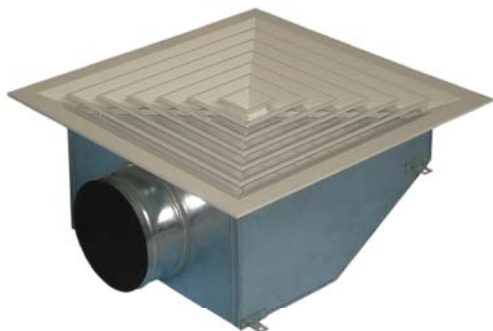


Standard HEPA Box



Low Profile HEPA Box

BPB • PLENUM BOX



Material

Manufactured from galvanized sheet with 6 or 10mm acoustic insulation or 6 or 9 mm heat insulation.



Assembly

Subtable for screw or ope
Installation to grilles or square
calling diffuser. Plerum box
stalled to cling with wire or rad.



Model

■ BPA: Plenum bOX



Usage

Side or topinist options are available. Flap is manufactured as Internally or estamally controlled.

BPBA • FAN COIL PLENUM BOX



Material

Manufactured from galvanized sheet.



Assembly

It is installed to outlets of
concealed calling type fan coils
and duct type split air conditioner.



Model

■ BPBA: Fan Coil Plenum Box



Usage

Interior and exterior surfaces are insulatedwith suitable rubber metarial. In this way, heat loss and noise are prevented. Insulation is only used for blowing air, not for suction.

LODOS AC/EC SERIES HEATER UNITS



Usage

BSK AC/EC fanlı LODOS serisi aksiyel fanlı duvar tipi sıcak hava apareyleri, depolar, fabrikalar, atölyeler, spor salonları, market vb. alanlarda ısıtma ihtiyacını karşılamak için üretilmektedir. EC fanlı LODOS serisi ısıtma apareylerinde kullanılan EC fanlar sayesinde elektrik tüketimi minimum seviyelere düşürülmüş ve çalıştırma maliyetleri alışagelmış diğer ısıtma sistemlerine göre daha avantajlı hale getirilmiştir. Isıtma apareyine eklenen termostatlı uzaktan kontrol kartı sayesinde cihazın otomatik olarak çalışması sağlanmıştır.



Teknik Özellikleri

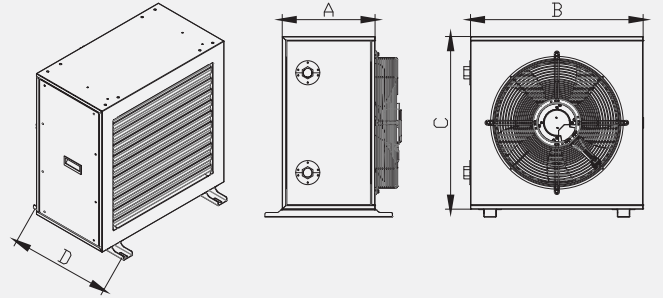
LODOS serisi EC fanlı sıcak hava apareyleri tavan yüksekliği 4 m ve aşağısı mekanların ısıtılması için uygundur. Isıtma apareylerimiz LODOS serisi EC ve AC fanlı ısıtma apareylerimiz 3,2-33,7 Kw kapasite aralığında üretilmektedir. Özel tasarımı sayesinde bağlantı ve montajda herhangi bir yön sorunu olmadan monte edilebilmektedir. Aerodinamik yapıdaki ön hava yönlendirme panjurları özel tasarlanmış alüminyum kanatlardan yapılmıştır. Bu sayede sıcak havanın yüksek üfleme mesafelerine ulaşması sağlanmıştır. Cihazların gövdesi, üzeri elektrostatik toz boyalı galvaniz sacdan imal edilmiş bu sayede maksimum korozyon direnci sağlanmıştır. EC ve AC fanlı cihazlarımızda balansı alınmış, korumalı örümcek kafesli aksiyel fanlar kullanılmaktadır. Kullanılan fanlar min enerji tüketimini sağlamaktadır. Cihazlarımızda bakır borulu ve Al. kanatlı yüksek verimli 28 barda test edilmiş maksimum ısı transfer yüzeyine haiz bataryalar kullanılmaktadır.

Standard Dimensions

CİHAZ MODELİ AC FANLI EC FANLI	EC / AC FANLI								Batarya Hacmi Lt	Hava Debisi m³/h	EC FANLI		AC FANLI	
	90/70 °C Su Rejimi için				70/50 °C Su Rejimi için						Fan 230V/ 50 Hz AC		Fan 230V/ 50 Hz EC	
	Hava Tarafı		Isıtıcı Akışkan Tarafı		Hava Tarafı		Isıtıcı Akışkan Tarafı				Güç Watt	Akım A	Güç Watt	Akım A
	Kapasite Kw	Hava Çıkış Sıcaklığı °C	Akışkan Tarafı Basınç Kaybı kPa	Debi Lt/h	Kapasite Kw	Hava Çıkış Sıcaklığı °C	Akışkan Tarafı Basınç Kaybı kPa	Debi Lt/h						
LODOS 4 / LODOS 4D	4,9	36	6,7	210	3,1	30	3,1	135	0,6	800	28	0,25	50	0,25
LODOS 6 / LODOS 6D	7,6	46	4,5	325	4,8	36	2	210	0,8	800	28	0,25	50	0,25
LODOS 8/ LODOS 8D	8,3	34	22,6	354	5,4	30	10,5	230	0,9	1600	61	0,50	90	0,42
LODOS 10 / LODOS 10D	13,3	42	15,6	565	8,6	35	7,2	370	1	1600	61	0,50	90	0,42
LODOS 12 / LODOS 12D	16,8	41	5,9	720	10,6	33	2,6	455	1,2	2100	95	0,85	135	0,60
LODOS 16 / LODOS 16D	19,3	45	8,3	830	12,3	35	3,7	530	1,4	2100	95	0,85	135	0,60
LODOS 20 / LODOS 20D	23,4	41	12,4	1000	14,9	33	5,6	640	1,6	3000	161	1,10	190	0,90
LODOS 24 / LODOS 24D	27,9	45	13,8	1150	17,2	35	7,8	740	1,8	3000	161	1,10	190	0,90
LODOS 28 / LODOS 28D	34,1	43	14,7	1460	22	35	9	950	2,1	4000	296	1,28	230	1,10

NOT: Yapılan hesaplamalarda 18°C Hava Giriş Sıcaklığı kabul edilmiştir.

CİHAZ MODELİ	ÖLÇÜLER				BAĞLANTI ÇAPLARI	
	A mm	B mm	C mm	D mm	GİRİŞ	ÇIKIŞ
LODOS 4	230	450	450	360	3/4"	3/4"
LODOS 6	230	450	450	360	3/4"	3/4"
LODOS 8	250	500	500	380	3/4"	3/4"
LODOS 10	250	500	500	380	3/4"	3/4"
LODOS 12	300	550	550	430	3/4"	3/4"
LODOS 16	300	550	550	430	3/4"	3/4"
LODOS 20	350	600	600	480	3/4"	3/4"
LODOS 24	350	600	600	480	3/4"	3/4"
LODOS 28	350	650	650	480	3/4"	3/4"



BHRS • CEILING TYPE HEAT RECOVERY UNIT



CEILING TYPE HEAT RECOVERY UNIT



Model

- BHRS: Ceiling type heat recovery unit



Material

Carrier frame is manufactured from 1,00 mm thick galvanized steel sheet and there is acoustic insulation with 9,00 mm thickness inside the device. Self-motorized, quiet, single-phased (220V) and speed controllable, imported fans are used. Plug farm are used in devices up to 5000 m³/h flow rate and in devices with 5000 m³/h and above flow rate double Inlet centrifugal fans are used. In our heat recovery devices, heat exchanger with 50-60 efficiency are being used.



Usage

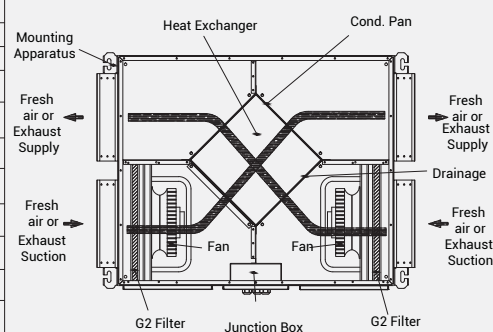
BSK ceiling type heat recovery units provide energy saving as well as high quality inside air. Heat recovering ventilation systems regain the heat energy, which is lost during ventilation process, by executing heat transfer between fresh air and exhaust air. The aluminium plate heat exchangers used in this system have high performance and also high heat conductivity, therefore the product provides an efficient heat transfer between warm and cold air flows. Besides saving energy, it also provides fresh air to places which should have high-intensity air exhaust such as offices, banks, hotels, houses, movie theaters, hospitals, all-purpose halls, fair-exhibition grounds etc.

8 standard models are manufactured between 750 m³/h - 5000 m³/h flow rates. The manufactured models have such designs that they are easy to assemble and maintenance, and also they can be put between suspended ceiling.

Standard Dimensions

BHRS Type Heat Recovery Devices Dimensions and Capacity Table

MODEL	BHRS-750	BHRS-900	BHRS-1130	BHRS-1670	BHRS-2350	BHRS-3000	BHRS-3400	BHRS-5000
Airflow Rate (m ³ /h)	750	900	1130	1670	2350	3000	3400	5000
External Static Pressure (Pa)	0	0	0	0	0	0	0	0
Airflow Rate (m ³ /h)	500	750	1000	1500	2000	2500	3000	4000
External Static Pressure (Pa)	170	150	120	100	170	130	100	110
Electrical Values	230V / 50 Hz							
	Gerilim (V)	90 x 2	130 x 2	165 x 2	225 x 2	515 x 2	480 x 2	640 x 2
In Istanbul Conditions	Power (w)	0,4 x 2	0,6 x 2	0,75 x 2	1,0 x 2	2,25 x 2	2,4 x 2	3,1 x 2
	Current (A)	0,4 x 2	0,6 x 2	0,75 x 2	1,0 x 2	2,25 x 2	2,4 x 2	3,1 x 2
In Istanbul Conditions	Wet The. Effec. In Summer (%)	53,6	52,7	52	51,5	50,1	51,7	50,9
	Wet The. Effec. In Winter (%)	57,9	56,9	56,2	55,6	52	55,8	53,3
	Dry The. Effec. In Summer (%)	53,6	52,7	52	51,5	50,1	51,7	50,9
	Dry The. Effec. In Winter (%)	53,6	52,7	52	51,5	50,1	51,7	50,5
	Cooling Recovery (kW)	0,72	1,06	1,39	2,07	2,59	3,46	4,09
	Heating Recovery (kW)	2,23	3,28	4,32	6,42	8,01	10,7	12,3
	Sound Level of Noise (dBA)	45	46	46	49	51	51	52
	Length (L) (mm)	900	900	1000	1100	1250	1600	1650
Width (W) (mm)		750	750	800	900	1000	1000	1200
Height (H) (mm)		330	330	370	430	460	480	520
Duct Connection (AxB) (mm)		225x225	225x225	250x250	300x300	300x300	350x350	350x350
Weight (Kg)		49	50	63	73	81	111	129



BHRS • CEILING TYPE HEAT RECOVERY UNIT



Digital Room Panel



Manual Speed Control

CEILING TYPE HEAT RECOVERY UNIT



Duct Type Heater

Duct type electrical and water-coil heaters can be used at supply duct after device to give additional heat to ambient. Also they can be used at fresh air inlet before device to protect the exchanger against frost.



Duct Type Sound Attenuator

Duct type sound attenuator can be used at supply duct after heat recovery device.



Manual Speed Controller

Manual speed controller is the basic controller for BHRS units. It allows the unit to be turned ON and OFF, adjust fan speeds symmetrically for VNT and ASP fans, and show a LED light for filter change.



Digital Room Panel

Digital room panel is the advanced control panel option. It can set fan speeds individually, change Set Temperature, set weekly schedule, change Boost mode settings and many more.

Standard Dimensions

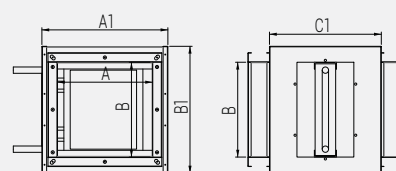
Electrical Heater Capacity Table

MODEL	BHRS-750	BHRS-900	BHRS-1130	BHRS-1670	BHRS-2350	BHRS-3000	BHRS-3400	BHRS-5000
Duct Connection (AxBxL) (mm)	225x225x300	225x225x300	250x250x300	300x300x300	300x300x300	350x350x300	350x350x300	400x400x300
Electrical Heater Power (kW)	3	3	3	6	6	10	10	12
Electrical Heater Grade	1	1	1	2	2	2	2	2
Voltage (V)	230	230	230	380	380	380	380	380
Current (A)	13,1	13,1	13,1	15,8	15,8	26,4	26,4	31,6
$\Delta T(T2-T1)$ (°C)	16,7	11,1	8,3	11,1	8,3	11,1	9,2	8,3

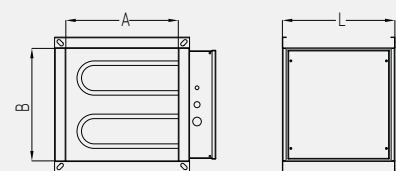
Water Coil Water Capacity Table

Fluid side temperature (Inlet/Outlet): 90/70°C

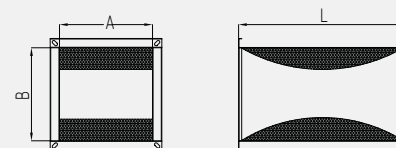
MODEL	BHRS-750	BHRS-900	BHRS-1130	BHRS-1670	BHRS-2350	BHRS-3000	BHRS-3400	BHRS-5000
Airflow Rate (m³/h)	500	750	1000	1500	2000	2500	3000	4000
Duct Connection (AxBx) (mm)	225x225	225x225	250x250	300x300	300x300	350x350	350x350	400x400
Water Coil Heater Power (kW)	3,9	4,9	6,7	10,1	12	15,8	17,5	24,3
Pressure Drop (Pa)	9	18	15	17	28	20	27	25
Dry Thermo. Outt Temperature (°C)	32	29	29	30	27	28	27	27
Water Pressure Drop (kPa)	7	10	4	9	13	6	7	10
ØDin = ØDout	21,3	21,3	21,3	21,3	21,3	21,3	21,3	21,3
Width (A1) (mm)	430	430	505	580	580	730	730	805
Height (B1) (mm)	310	310	360	415	415	465	465	565
Length (C1) (mm)	400	400	400	400	400	400	400	400



Duct Type Water Coil Heater



Duct Type Electrical Coil Heater



Duct Type Sound Attenuator

Attenuator Dimensions (mm)			Absorbing Capacity (dB)	Pressure Loss (Pa)
A	B	L	for 250 Hz	
225	225	1000	5	8
300	300	1000	5	9
350	350	1000	6	10
400	400	1000	6	11

BRHR SERIES • CEILING TYPE HIGH EFFICIENCY HEAT RECOVERY UNITS

CEILING TYPE HIGH EFFICIENCY HEAT RECOVERY UNITS



Model

- BRHR: Ceiling type high efficiency heat recovery unit



Material

Carrier frame is manufactured 1,00 mm thick galvanized steel sheet and inside of the device is insulated with 9,00 mm acoustic insulation. Self- motorized, quiet, single-pased (220V), imported speed controllabale EC fans are used. EC plug fans are used in BHRP series high efficiency heat recovery units with 500 m³/h - 750 m³/h 1000 m³/h - 1500 m³/h flow rates. In our BHRP series, heat exchangers with %80-85 efficiency, are used.



Usage

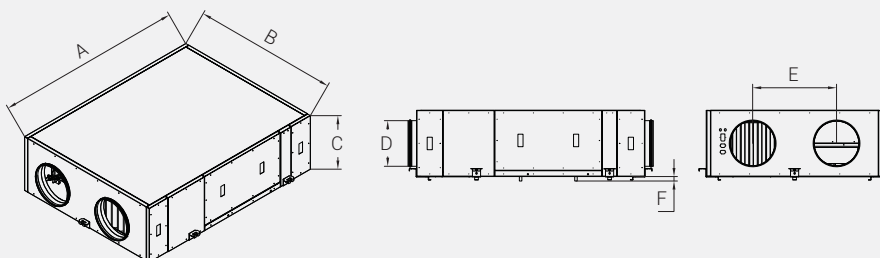
BSK ceiling type heat recovery units provide energy saving as well as high quality inside air. Heat recovering ventilation systems regain the heat energy, which is lost during ventilation process, by executing heat transfer between fresh air and exhaust air. The aliminium plate heat exchangers used in this system have high performance and also high heat conductivity, therefore the product provides an efficient heat transfer between warm and cold air flows. Besides saving energy, it also provides fresh air to places which should have high-intensity air exhaust such as offices, banks, hotels, houses, movie theaters, hospitals, all-purpose halls, fair-exhibition grounds etc. 4 standart models are manufactured between 500 m³/h - 1500 m³/h air flow rates. The manufactured models have such designs that they are easy to assemble and maintenance, and also they can be put between suspended ceiling.

When outside air temperature in mornings and evenings is close to interior temperature (in spring and autmnn months), because there won't be significant heat transfer between fresh and exhaust air, plate type heat exchanger can be bypassed in order to remove the pressure loss from exchanger and s oto use the fresh fan more efficiently. There is a slot for bypass damper inside the section.

Standard Dimensions

	BRHR Plus 5	BRHR Plus 10	BRHR Plus 15	BRHR Plus 20	BRHR Plus 25	BRHR Plus 30
Max. Air Flow	500 m³/h	1000 m³/h	1500 m³/h	2000 m³/h	2500 m³/h	3000 m³/h
External Static Pressure	100 Pa					
Thermal Efficiency	85%					
Heat Exchanger Type	Aluminum Plated Counter-flow					
Casing Type	Double walled, powder					
Fan Type	High efficiecnycy EC fans					
Max. Power Input	350	780	1000	950	1000	1470
Voltage	230VAC - 50Hz					
Filter Type	G4 x 2					
Operating Temp.	-20 to +50					

MODEL	A	B	C	D	E	F
BRHR Plus 5	1400	800	370	200	370	18
BRHR Plus 10	1500	1050	410	250	495	18
BRHR Plus 15	1550	1200	450	310	570	18
BRHR Plus 20	1700	1450	540	355	695	18
BRHR Plus 25	1700	1650	540	400	795	18
BRHR Plus 30	1850	1650	675	450	795	18



BMPA • MICRO STANDART CABINET ASPIRATORS



Model

- BMPA: Micro Standard Cabinet Aspirators



Usage

In BMPA micro type cabinet aspirators electrical motor section offan is insulated in such way that is not exposed to air flow. Plugfans are being used. Product is suitable to work with frequency inverter. It provides easy solution at narrow areas. Areas of use are; cafeterias, restaurants, kitchens...

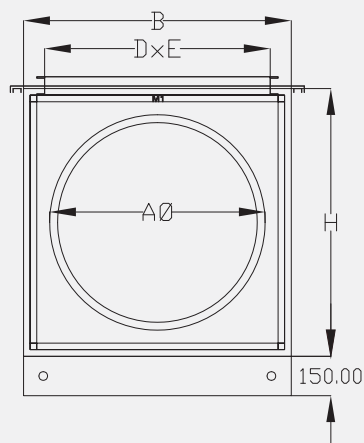
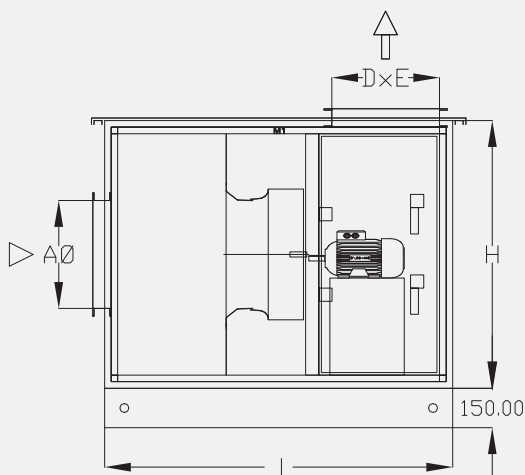


Material

Casing of our micro type cabinet aspirator is manufactured from natural anodized aluminium profile. Section panels have 25 mm thickness, outer wall is manufactured from 1 mm pre-painted galvanized steel sheet and interior wall is from 0,8 mm galvanized steel sheet. Rockwool with 70 kg/m³ density is used as filling material. Statically and dynamically balanced, quiet and efficient plug fans are used. Standard electrical motors we used have 380V-50Hz electrical values.

Standard Dimensions

MODEL	BMPA21	BMPA30	BMPA42	BMPA60	BMPA81	BMPA118
Air Flow Rate (m ³ /h)	2100	3000	4250	6050	8100	11800
External Static Pressure (P)	0	0	0	0	0	0
Motor Power (kW)	0,75	0,75	0,75	1,1	1,5	3
Motor Speed (d/dk)	1500	1500	1500	1500	1500	1500
Length (L) (mm)	530	550	580	650	710	780
Width (B) (mm)	530	550	580	650	710	780
Height (H) (mm)	530	550	580	650	710	780
Suction Port (AØ) (mm)	Ø295	Ø315	Ø365	Ø420	Ø465	Ø515
Throw Port (DxE) (mm)	470x190	490x210	540x250	590x270	650x300	720x330



BDF • DUCT TYPE FANS



Usage



BDF serisi dikdörtgen kanal tipi fanlar ortam havasını tazelemek için kullanılır. İstenen bütün alanlarda aspiratör ve vantilatör olarak kanallara bağlanarak kullanılabilir. Kullanım alanları olarak toplantı salonları , ofisler, marketler, restoranlar vs.

Accessories



- Silencer
- Flexible Connection
- Speed Control
- Filter Cell
- Electrical Heater



Model

- BDF: Duct Type Fans

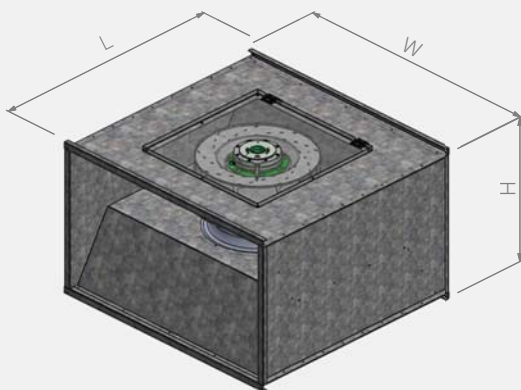


Material

BDF series parts of our rectangular duct fans outside is manufactured from galvanized steel. Our motor of duct fans directly coupled to a highly efficient, low-noise fans are used. The duct fans have service door, for the maintenance of motor and blades easy. Duct type fans' suction and blowing are manufactured with flange for ease of assembly. Motor protection class is IP55 motors are protected from overheating. Our motors are appropriated to operation 230V / 50 Hz or 400V / 50 Hz electrical, depend of models. Our BDF Series duct type fans are manufactured standart. If requested it is suitable for speed control.

Standard Dimensions

MODEL	BDF-95	BDF-130	BDF145	BDF-210	BDF-285	BDF-450	BDF-580	BDF-835	BDF-950
Air Flow Rate (m³/h)	950	1300	1450	2100	2850	4500	5800	8350	9500
External Static Pressure (Pa)	0	0	0	0	0	0	0	0	0
Lenght (L) (mm)	480	500	530	550	550	880	950	1000	1000
Width (W) (mm)	400	450	500	550	550	800	900	1000	1000
Height (H)	200	250	300	350	400	500	500	600	600



ECU. KITCHEN AND PROCESS FIELD EXHAUST SOLUTIONS



Model

- ECU: ECOLOGY UNIT Kitchen and Process Exhaust Solutions



Cell Structure

The frame of our Ecology units is made of 25x25 specially formed aluminum profiles with electrostatic powder paint. The 50 mm thick panels consist of an outer wall of galvanized sheet metal with electrostatic powder paint, an inner wall of 0.8 mm galvanized sheet metal and electrostatic powder paint on top (AISI 304 quality stainless sheet metal can be used optionally) and 70 kg/m³ density rock wool insulation. Our electric motors are 380V-50Hz as standard.



Usage

They are economical devices designed to separate oil, smoke, odor, harmful gases, hydrocarbon group and organic compound wastes from the air that occur in kitchen applications and production facilities and to release clean air into the atmosphere. It is possible to create a device combination with 8 types of filter designs according to the size measurements and chemical properties of the particles in the air to be cleaned. With standardized filter cell modules, our customers will be able to get rid of unnecessary costs by selecting the necessary filter groups. Ecology devices can be produced in 8 different models with 8 types of filter alternatives in the air flow range of 2500 m³/h



Assembly

- Installation to air duct

Standard Dimensions

MODELS	AIRFLOW/PRESSURE		MOTOR ALTERNATIVE 1			MOTOR ALTERNATIVE 2		
	Airflow m ³ /h	External Pressure Pa	Power	Nominal RPM	Max. Total Pressure	Power	Nominal RPM	Max. Total Pressure
ECU-25	2500	400	1,1	3000	837	1,5	3000	1234
ECU-50	5000	400	3	3000	1299	4	3000	1456
ECU-75	7500	400	4	3000	937	5,5	3000	1419
ECU-100	10000	400	5,5	1500	1213	7,5	1500	1395
ECU-150	15000	400	7,5	1500	1157	11	1500	1419
ECU-200	20000	400	11	1500	1282	15	1500	1385
ECU-300	30000	400	15	1000	1126	18,5	1000	1414
ECU-450	45000	400	22	1000	1152	30	1000	1410

ECU-25/ AW-G2-ESP-G4-F7-CF-F8-UV										
00	ECU	Ecology Unit			06	G4	Panel Filter			
01	AW	Air Washing Module			07	F8	Bag Filter			
02	ECW	Inlet cell with a washer *			08	Cf	Active Carbon Filter			
03	EC	Inlet cell without a washer**			09	F9	Compact Filter			
04	G2	Metal Filter			10	UV	UV Filter			
05	ESP	Electrostatic Filter			11	V	Fan Module			

* If an air wash unit is selected for your Ecology unit, an inlet cell with a washer must be used.

** If an air wash unit is not selected for your Ecology unit, an inlet cell without a washer must be used.

BHA-EX • CABINET TYPE EX-PROOF ASPIRATOR



Model

- BHA-EX: Cabinet Type EX-PROOF Aspirator



Material

Casing of our cabinet type aspirators is manufactured from natural anodized aluminium profile. Section panels have 25 mm thickness, outer wall is manufactured from 0,80 mm pre-painted galvanized steel sheet and interior wall is from 0,80 mm galvanized steel sheet. Rockwool with 70 kg/m³ density is used as filling material.



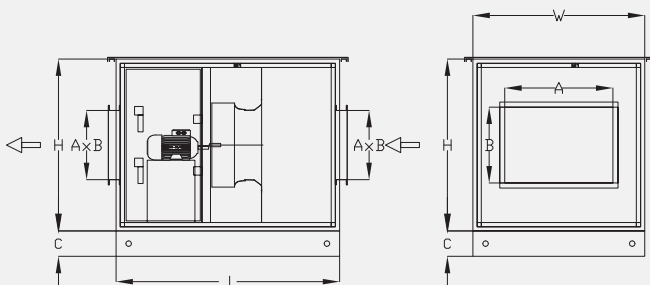
Usage

Fans of BHA-EX Series Cabinet Type Aspirators are statically and dynamically balanced, quiet, efficient double inlet centrifugal fans and they are also ex-proof thanks to inlet funnel that is made from copper prevents sparking in case of any possible impact between rotor and body casing. Also electrical motors are ex-proof and they have 380V-50Hz electrical values. Taking the presence of explosive gasses into account in leading sectors of industry, such as petrochemical, pharmaceutical, paint, food, crude oil and natural gas transportation, we are manufacturing cabinet type aspirators in the most accurate protection class and without compromising security by using ex-proof motors and fans. Ex-proof motors and fans protect their operating temperature even the ambient temperature increases. Our cabinet type aspirators with ex-proof motor and fan which are providing the highest safety standards, are designed to be used safely in ambients that contains explosive substances.

Standard Dimensions

BHA-EX Cabinet Type Aspirator Dimensions and Capacity Table

MODEL	Airflow Rate (m ³ /h)	Fan Model	Dimensions (mm)			Inlet (mm)		Leg (mm)
			W	H	L	a	b	
BHA -EX -25	750 -2500	7-7/200/225	700	700	800	400	300	100
BHA -EX -30	2500 - 4000	9-9/250/280	800	800	1000	500	400	100
BHA -EX -45	4000 - 6000	10-10/280/315	900	900	1100	600	500	100
BHA -EX -65	5000 - 7000	12-12/315/355	1000	1000	1200	600	600	100
BHA -EX -75	6000 - 8000	15-15/355/400	1100	1100	1300	700	600	100
BHA -EX -100	8000 - 10000	18-13/355/400	1200	1200	1400	1100	500	100
BHA -EX -120	10000 - 12000	18-18/400/450	1200	1200	1400	1100	500	100
BHA -EX -150	12000 - 15000	18-18/450/500	1300	1300	1400	1200	600	100
BHA -EX -200	15000 - 18000	500/560	1400	1300	1500	1300	500	100
BHA -EX -250	20000 - 25000	560/630	1700	1500	1700	1600	700	100
BHA -EX -300	25000 - 40000	630/710	1700	1700	1900	1600	800	100



BHAS • SHELTER TYPE VENTILATION UNIT



Material

The casing of our shelter type ventilation units is manufactured from natural anodized aluminium profile. Section panels have 50 mm thickness, external wall is manufactured from 1,00 mm prepainted galvanized steel sheet and internal wall is manufactured from 0,80 mm galvanized steel sheet. Rockwool with 70 kg/m³ density is used as filling material. According to customer demand interior wall can be coated with 1,20 mm lead plate to avoid harmful effects of X-ray. Sections have extremely rigid and leak-proof structure. Statically and dynamically balanced, quiet, efficient double inlet centrifugal fans have been used. Electrical motors have 380V-50 Hz values as standard. Shelter type ventilation unit's design allows it to operate in two different ways, such as; when the outside air is polluted with radiation, biologically or with chemical dust and particuls, air will pass through G4 panel filter, F7 bag filter, nuclear type filter, lead separator and active carbon filter, in normal conditions air will only pass through G4 panel filter. Shelter type ventilation unit's both emergency and usual time dampers have spring return and on/off actuators. To operate the device in demanded mode, related damper opens and the other switches to off position. In this way, special filters will not be used in usual times. To keep 50 Pa positive pressure in shelter, exhaust aspirator should have frequency inverter which is controlled by the pressure sensors inside the shelter.



Model

■ BHAS: Shelter Type Ventilation Unit



Usage

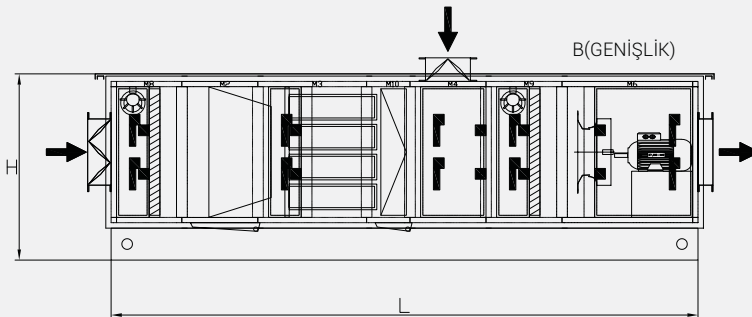
The design of shelter ventilation must provide air in accordance to minimum living conditions of people benefiting from shelter as long as their stay. Without any physical activity, an adult breathes approximately 0,5 m³/h (maximum 8...9 m³/h) air which have 35 °C temperature and %95 humidity and contain average %17 O₂, %4 CO₂ ve %79 N. For this purpose, a description about determination of minimum required air, is necessary. In the required air for respiration, the amount of oxygen should not be below %19 and the amount of CO should not be above %2. To prevent the leakage of radioactive, biological and chemical dust and particules to inside of the shelter, there should be 50 Pa positive pressure inside the shelter according to outside. The air for shelter, shouldn't be heated, cooled and humidified. Shelters should have both usual ventilation and protective ventilation systems.

Standard Dimensions

BHAS Shelter Type Ventilation Unit Dimensions and Capacity Table

MODEL	Airflow Rate (m ³ /h)	External Static Pressure (Pa)	Motor Power (kW) (380V-50Hz)	Dimensions (BxHxL mm)
BHAS-200	2000	400	1,5	810x710x4420
BHAS-360	3600	400	2,2	810x910x4420
BHAS-540	5400	400	3	1110x910x4520
BHAS-720	7200	400	4	1410x910x4520

Section placement: G4 Filter + Radioactive Filter + Lead Separator + Active Carbon Filter + Bypass Section + G4 Filter + Fan Section



JUPITER AIR HANDLING UNITS



Fan



Double inlet centrifugal fan or plug fans are used in our air handling units. Double inlet centrifugal fan's electric motors are mounted with belt and pulley mechanism. Pulley sizes are determined accordingly, to get the optimal airflow and pressure value. In plug fan applications motor shaft is coupled with fan hub directly without any cross member. Hence, the fan revolution equals the motor revolution. By using frequency inverter, precise flow rate and pressure values adjustments can be made. Our Standard electric motors have 380V- 50Hz values.



Model

■ Jupiter



Cell Structure

Casing of our air handling units is manufactured galvanised steel with powder coating finish 25x25x2 & 25x50x2. The carcass type is designed to be strong and non-corrosive material. Our 50 mm section panel's outer wall is RAL 9002 painted & inner wall is galvanised sheet. Inside of the section panel is made from 70 kg/m³ dense rockwool which provides high efficiency and energy conservation. Jupiter's modern carcass structure, statically and dynamically balanced body and quiet & efficient double inlet centrifugal fan or plug fans, made jupiter indispensable.



Coils

The cooling systems of our air handling unit are cooling chilled water & direct expansion (DX) coils. The heating systems of our air handling unit are hot water coils, steam coils and electric heater. Air velocity at the coils are chosen between 2 m/s and 3,5 m/s to get the highest efficiency from the coil and it depends for every city and climate condition.

JUPITER AIR HANDLING UNITS



Heat Exchanger



Heat exchangers reduce the needed heating and cooling energy. That reduces the size of the pump & installation and that means AHU needs less energy to climate environment and that makes the AHU's monthly electric expenditure lesser. Jupiter's heat exchanger types are plate heat exchangers, free cooling, rotary heat exchangers, run around type heat exchangers and heat pipe heat exchangers.

Humidification



There are 3 types humidification system for Jupiter. These are steam system, pulverisation system and pad system.



Drift Eliminator

Drift eliminators are made of polypropylene or aluminum material . They are wear resistant and have sterile structure.



Filter

For filtering the major particles G3 – G4 type panel filters, minor particles that can not be seen by naked eye M5 – M6 – F7 – F8 – F9 type bag filters are used for air handling units. The sliding system is used for the panel filters and that system provides easy mounting / dismounting while changing the panel filters. In addition in order to prevent your system from oil&scent metallic filter, active carbon filter and electro-static filter applications are used also.



Accessories

The accessories that are used for Jupiter

- Sight Glass
- Interior Lighting
- Handles
- Coil Valve and Valve Motor
- Repairing & Maintenance Switch
- Emergency Stop Button
- Differential Pressure Gauge
- Damper Motor
- Freezing Thermostat
- Humidity & Temperature Sensor
- Airflow Control Sensor
- Inner Air Quality Sensor
- Frequency Inverter

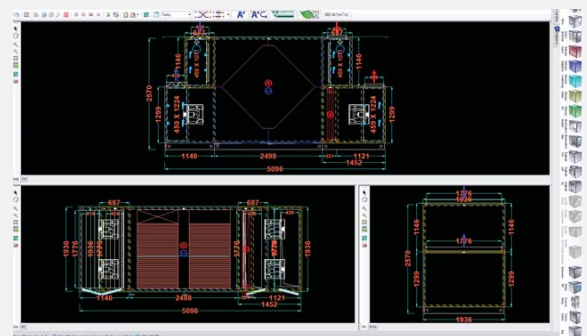
JUPITER AIR HANDLING UNITS

Jupiter Air Handling Unit Module Dimensions (mm)					
Frame Dimension	Air Duct Cross Section [mm]		Frame Dimension	Air Duct Cross Section [mm]	
Model	Height	Width	Model	Height	Width
Jupiter 4 X 8	306,0	612,0	Jupiter 24 X 24	1836,0	1836,0
Jupiter 4 X 12	306,0	918,0	Jupiter 24 X 28	1836,0	2142,0
Jupiter 4 X 16	306,0	1224,0	Jupiter 24 X 32	1836,0	2448,0
Jupiter 6 X 8	459,0	612,0	Jupiter 24 X 36	1836,0	2754,0
Jupiter 6 X 12	459,0	918,0	Jupiter 24 X 40	1836,0	3060,0
Jupiter 6 X 16	459,0	1224,0	Jupiter 24 X 44	1836,0	3366,0
Jupiter 6 X 20	459,0	1530,0	Jupiter 28 X 28	2142,0	2142,0
Jupiter 8 X 8	612,0	612,0	Jupiter 28 X 32	2142,0	2448,0
Jupiter 8 X 12	612,0	918,0	Jupiter 28 X 36	2142,0	2754,0
Jupiter 8 X 16	612,0	1224,0	Jupiter 28 X 40	2142,0	3060,0
Jupiter 12 X 12	918,0	918,0	Jupiter 28 X 44	2142,0	3366,0
Jupiter 12 X 16	918,0	1224,0	Jupiter 28 X 48	2142,0	3672,0
Jupiter 12 X 20	918,0	1530,0	Jupiter 28 X 52	2142,0	3978,0
Jupiter 12 X 24	918,0	1836,0	Jupiter 28 X 56	2142,0	4284,0
Jupiter 16 X 16	1224,0	1224,0	Jupiter 32 X 32	2448,0	2448,0
Jupiter 16 X 20	1224,0	1530,0	Jupiter 32 X 36	2448,0	2754,0
Jupiter 16 X 24	1224,0	1836,0	Jupiter 32 X 40	2448,0	3060,0
Jupiter 16 X 28	1224,0	2142,0	Jupiter 32 X 44	2448,0	3366,0
Jupiter 20 X 20	1530,0	1530,0	Jupiter 32 X 48	2448,0	3672,0
Jupiter 20 X 24	1530,0	1836,0	Jupiter 32 X 52	2448,0	3978,0
Jupiter 20 X 28	1530,0	2142,0	Jupiter 32 X 56	2448,0	4284,0
Jupiter 20 X 32	1530,0	2448,0	Jupiter 32 X 60	2448,0	4590,0
Jupiter 20 X 36	1530,0	2754,0			
Jupiter 20 X 40	1530,0	3060,0			

Our Jupiter air handling units can be produced in 46 different types with standard modules in the air flow range of 1000 m³/h-121000 m³/h. In attic applications, 7 different types of production can be made between 4*8 and 6*20 modules with Jupiter bodies.

Our air handling units with Eurovent certificates are manufactured based on EN 1886 and EN 13053 Standards. Our tested and approved Eurovent criteria are listed in the table below.

AIR CONDITIONING UNIT CLASSIFICATION ACCORDING TO EN 1886			
BSK	EUROVENT CRITERIA		STANDARD VALUE
Body Mechanical Strength	D1	Max. Deflection Measured in Design Conditions mm/m	4
Body Air Leakage -400 Pa pressure	L1	Maximum Leakage l/cm²	0,15
Body Air Leakage +700 Pa pressure	L1	Maximum Leakage l/cm²	0,22
Filter Bypass Leakage 400 Pa pressure	F9	Filter Bypass Leakage Rate	0,5
Thermal Conductivity	T2	Thermal Conductivity Test (U) (W/m²K)	0,5<U<=1
Thermal Bridging	TB2	Thermal Bridging Test (kb)	0,6<Kb<=0,75



Our Jupiter air handling units can be selected with our Eurovent approved AHU CALCULATOR selection program in accordance with ECO-DESIGN directives and ErP 2016-2018.

BSK-AHU • DX AIR HANDLING UNITS



Model

- **BSK-AHU:** DX Air Handling Unit with %100 Fresh Air
- **BSK-AHP :** DX Air Handling Unit with %100 Fresh Air and Cross-flow Heat Exchanger
- **BSK-AHR:** DX Air Handling Unit with %100 Fresh Air and Rotor Type Heat Exchanger

Usage

Most sought main features of DX air handling units can be listed as; high efficiency air conditioning with minimum power consumption, air tightness, having a construction with the minimum thermal bridge and dynamic forces not to cause vibration. Designs and selections are being made for DX series units by considering and prioritizing minimum operating costs and maximum efficiency. We can list energy-saving fans, efficient heat exchangers and coils, interior design of the unit that provides optimum air flow as the features of our products in order to support these priorities. Efficiency can be increased by our optional automation systems.



Material

DX air handling units are formed by combining required modular sections. Modular section's frame is from naturally anodized aluminium profile and aluminium corner elements. Section panels are 50 mm thick. The outer wall of section panels is film-coated galvanized sheet with RAL 9002 electrostatic powder painting and the inner wall is galvanized sheet. DX air handling units are indispensable products for central ventilation and air conditioning, thanks to its panels filled with 70 kg/m³ dense rock wool which provides high efficiency and energy-saving, its modern frame structure and its statically and dynamically balanced, quiet and efficient plug fans. Our standard control and access doors have spaceless rigid hinges and handle with compression feature which allow any air leakage. Double-walled, rigid doors placed in a way that it won't have any friction with frame. All required automation holes of DX air handling units are opened at the production phase. Motor connection cables are being held in the junction box outside of the sections. There are reinforced chassis feet manufactured from galvanized sheet with minimum 3 mm width and 100 mm height under the sections. Round holes are being opened at the corners of the chassis feet to provide ease of carriage.



Dx Coil

DX coils discharge the heat taken from the evaporator to the atmosphere by using refrigerant with the help of a compressor.



JUPITER HYGIENICAL AIR HANDLING UNITS



JUPITER HYGIENICAL AIR HANDLING UNITS



Model

- BSK-AHU: DX Air Handling Unit with %100 Fresh Air
- BSK-AHP : DX Air Handling Unit with %100 Fresh Air and Cross-flow Heat Exchanger



Usage

Hygienical air handling units are generally requested for sterilized inside air . Hospitals, pharmacies, the laboratories that must have sterilized inside air, food and drug factories are in neessity of Hygienical air handling units. Because this units can not bring any dirt, dust and germs inside the area. That the reason why, all measures are taken for Jupiter Hygienical Air Handling Units



Material

With smooth and stainless inner surface structure, The rounded corner piece which prevents to gather dirt, dust etc. and anti-bacterial silicon for comfort applications , Jupiter Hygienical Handling Units are one of the best units both international and domestic arena. All rubber parts are anti-bacterial. In order to improve corrosion resistance, all heat exchanger's casings are stainless steel and epoxy topping is applied to the lamellar surfaces. All equipments, drainage system and filter contains 304 quality stainless steel sheet. The drainage system is passed all the test with success and keeps minimum water inside the drain pan. Jupiter Hygenical Air Handling Unit contains Class 4 Damper which meets all the hygienical standarts.

BRHR and VENTI SERIES



General Information

BRHR Series heat recovery devices can be selected as vertical, horizontal and ceiling type, up to 500 m³/h air flow rate according to your installation needs. VENTI series home type heat recovery devices are ideal devices for large houses with their high capacities that can meet your air flow needs up to 700 m³/h.

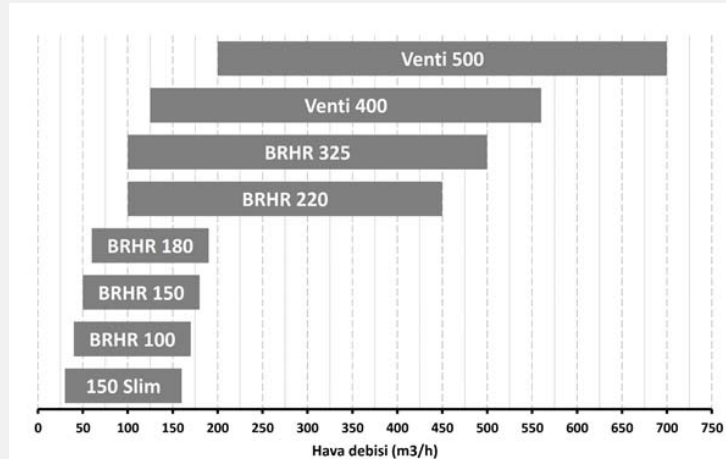
Our devices have plug-and-play feature, advanced automatic control options and are equipped with G4 filter, by-pass damper, temperature and humidity sensors as standard. Our devices use ModBus protocol to connect to your building automation system. You can monitor and control your device via a computer or a central system.

The metal case is double-walled and there is 25 mm insulation material between them to provide both high thermal performance and low noise levels. In addition, special silencers on the suction and discharge ports of the device create silent working environments in classrooms and offices. High-efficiency hexagonal counter-flow plastic plate heat exchangers offer up to 90% thermal efficiency. The low energy consumption EC motor fans we use in our devices offer high performance and quiet operation.

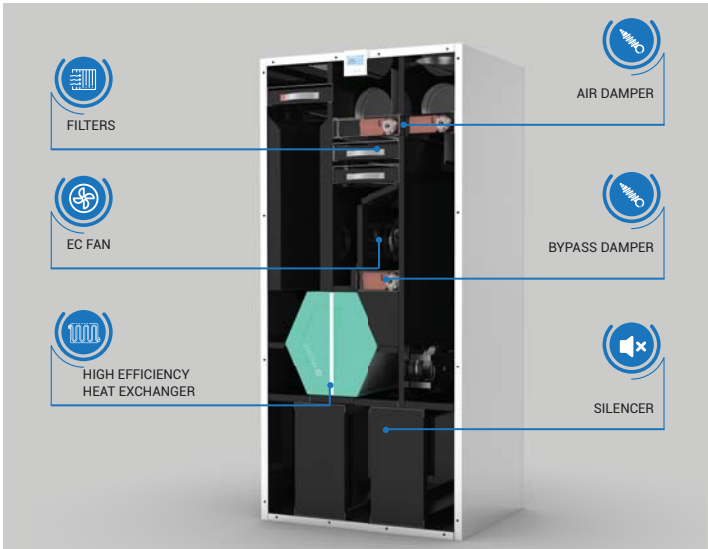


Standard Dimensions

Ürün Modeli	BRHR 150 Slim	BRHR 100	BRHR 150	BRHR 180	BRHR 220	BRHR 325
SEC Energy Class	A+					
Thermal Efficiency	87%	90%	90%	90%	85%	85%
Max. Airflow	160	170	185	185	440	495
Max. Electircal Power	60W				170W	
Sound level (Lpa)	48 dB(A)					
SPI (W/(m³/h)	160	170	185	185	440	495



BSK SCHOLAR SERIES



General Information

BSK SCHOLAR school type high efficiency heat recovery devices are specially designed for classrooms, meeting rooms or offices that do not have an existing ventilation system. Our devices, which reach air flow rates of 500 and 700 m³/h, provide 100% clean air to the environment and throw out the dirty air in the environment. Clean air is filtered and the dust and allergens inside are also purified and presented to the environment.

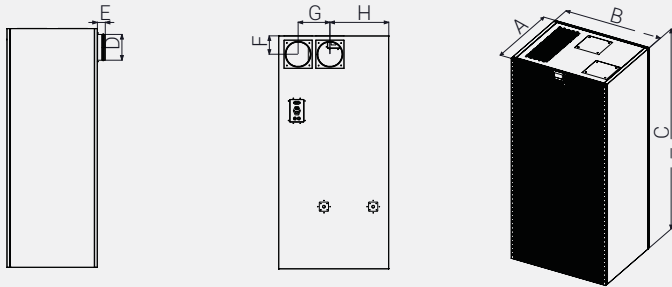
Thanks to the high efficiency heat exchanger inside, the energy of the air thrown out by heat recovery is used to heat the clean air taken from outside. No energy is spent for this passive heating process. In this way, the devices save a great deal of your heating costs by using the energy spent to heat the interior. In addition, special silencers in the suction and discharge ports of the device create silent working environments in classrooms and offices. The low energy consumption EC motor fans we use in our devices offer high performance and silent operation.

Our devices have plug-and-play feature, advanced automatic control options, and are equipped with G4 filter, by-pass damper, temperature and humidity sensors as standard. Our devices use the ModBus protocol to connect to your building automation system. You can monitor and control your device via a computer or a central system.

Standard Dimensions

	A	B	C	D	E	F	G	H
Scholar 500	575	780	1650	160	55	130	235	417
Scholar 700	625	780	1650	180	55	130	225	417

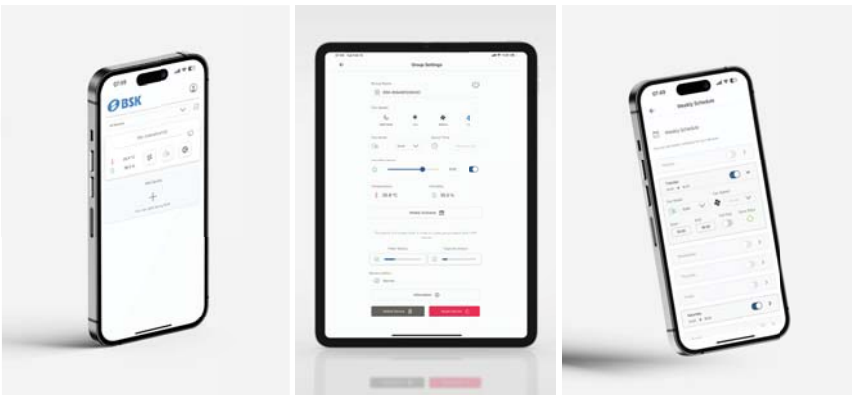
	BSK Scholar 500	BSK Scholar 700
Max Flow Rate	500 m³/h	700 m³/h
Max Thermal Efficiency	95%	
Supply Voltage	230V	
Max Electrical Power	170W	320W
Dimensions (DxWxH) (mm)	575x780x1650 mm	625x780x1650 mm
Weight	140kg	160kg
Spigot Diameter	160 mm	180 mm
Condensation Drain Diameter	19mm	
Operating Temperatures	-20 C to 60 C	



BSK ZEPHYR



You can connect multiple devices together via wireless communication and control your devices remotely with the mobile application.



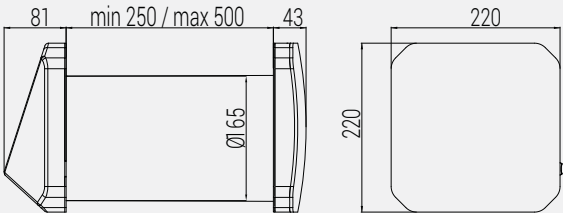
General Information

BSK Zephyr room type heat recovery unit is a ventilation solution designed for spaces without existing ventilation infrastructure, with easy installation and wireless connection features. The working principle of BSK Zephyr is that it can recover heat thanks to the heating and cooling of the ceramic exchanger inside thanks to its bidirectional fan.

The device operates in a cycle that sucks and blows air in 70-second periods. While air is being expelled from the environment, the ceramic exchanger will heat up, the air flow direction will reverse and fresh air will be taken in from outside and this heat stored in the exchanger will be blown in a conditioned manner. BSK Zephyr, which does not exceed a few watts of power consumption and can reach 90% thermal efficiency, meets your ventilation needs while also saving energy.

Standard Dimensions

Technical Specifications				
Electrical Connection	110/230V 50/60Hz			
Fan Speed	Night Mode	I	II	III
Air Flow (m	15	30	45	60
Elec. Power (W)	0.9	1.1	2.8	5.9
Sound Power	21.3	25.7	39.8	47.9
Sound Pressure @1m (dBA)	10.3	14.7	28.8	36.9
Sound Pressure @3m (dBA)	0.8	5.1	19.2	27.3
Thermal Efficiency	up to 90%			
Sensor Type	Temperature and Humidity			
Filter	2x G3 (optional M5)			
Protection Class	IPX4			
Operating Temp.	-20 / +40°C			



BSK ZEPHYR MINI



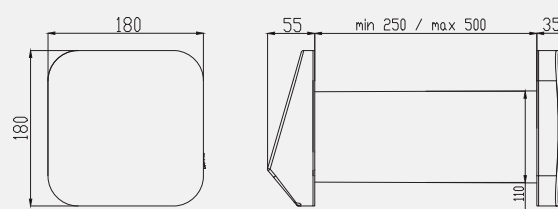
General Information

Zephyr Mini is a heat recovery unit specially designed for bathrooms, kitchens and dressing rooms without central ventilation infrastructure. Its main focus is energy efficiency; it minimizes the heat loss encountered in traditional ventilation methods thanks to the ceramic exchanger inside. This makes Zephyr Mini an ideal solution that provides the necessary ventilation while saving energy.

The unit has a ceramic exchanger and a two-way fan that exchanges dirty indoor air with fresh outdoor air every 70 seconds. The ceramic exchanger captures the heat in the air coming out of the environment and heats or cools the fresh air according to the season. With a thermal efficiency of up to 90%, BSK Zephyr Mini offers effective energy recovery and comfort throughout the year.

Standard Dimensions

Technical Specifications				
Electrical Connection	110/230V 50/60Hz			
Fan Speed	Night Mode	I	II	III
Air Flow (m³/h)	8	15	20	30
Elec. Power (W)	1.4	1.7	2	3.1
Thermal Efficiency	up to 90%			
Fan Type	2-way EC Controlled 12VDC Axial Fan			
Sensor Type	Temperature and Humidity			
Filter	2x G3 (optional M5)			
Protection Class	IPX4			
Operating Temp.	-20 / +40°C			



BSK NOTUS HV



General Information

BSK NOTUS HV, the new generation EPP body heat recovery unit, is a residential type central ventilation unit designed to exchange indoor and outdoor air in a highly efficient manner to minimize energy loss. These units are used to maintain indoor air quality in residential areas, reduce energy consumption and increase overall comfort.

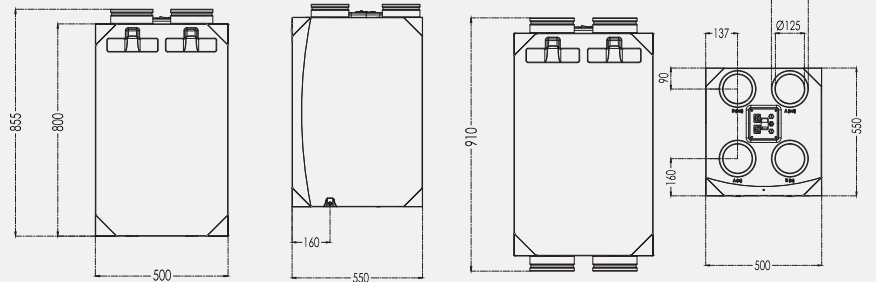


Expanded polypropylene (EPP) is a durable and lightweight plastic foam material produced through molding and expansion processes. The lightness and high heat and sound insulation properties of EPP material make it the perfect body material for BSK NOTUS HV.

BSK NOTUS HV units discharge dirty indoor air in various rooms of a house such as kitchens and bathrooms, while at the same time providing fresh air drawn from outside into living spaces. The basic function of the units, heat recovery, provides energy savings by transferring the heat of the exhausted dirty air to the incoming clean air thanks to the high-efficiency plate heat exchanger inside. This heat transfer of up to ninety percent helps precondition the fresh air, greatly reducing the energy required to heat (or cool) it to the desired indoor temperature.

Standard Dimensions

Air Flow	350 m ³ /h
Thermal Efficiency	%90a varan
Supply voltage	230 VAC, 50 Hz
Electric Power	150 W
Dimensions (GxDxY)	500 x 550 x 800 mm
Manşon Çapı	160 mm ve 125 mm
Weight	18 kg
Sound Pressure Level (1m)	48 dB
Operating temperatures	-20 +40 °C



BSK NOTUS HV

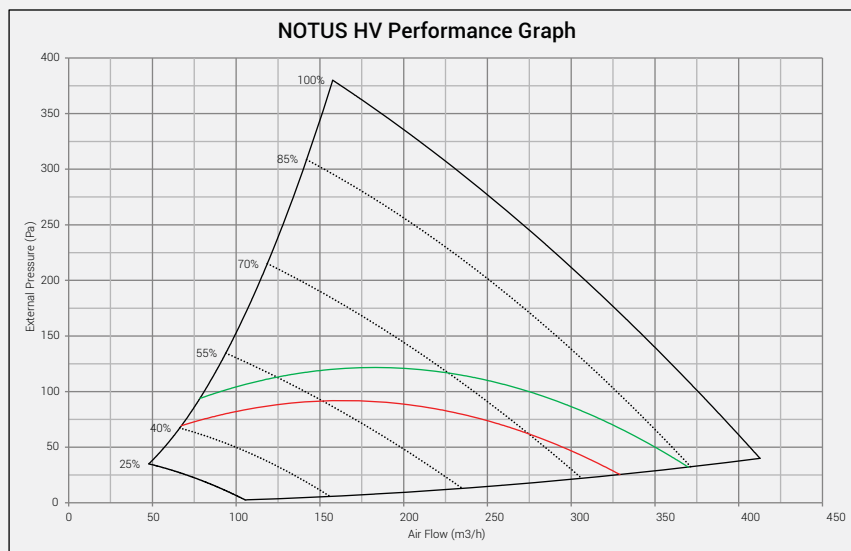


Control Options

Equipped with advanced control features, the BSK NOTUS HV device provides easy installation with plug-and-play electrical connections, and can be used both vertically and horizontally thanks to its interchangeable air ducts.

You can connect to the BSK CONNECT mobile application with WiFi, or control your device with the help of the touch control panel. You can also perform central building management with the BSK CLOUD web interface.

Performance Graph



BSK PURIFA SERIES



General Information



In closed environments where clean air cannot be provided continuously, keeping the air quality and cleanliness high is much more important in terms of hygiene and comfort. The BSK Purifa series is specially developed air filtering and cleaning devices for exactly such environments. It provides you with a healthy and fresh environment by increasing the air quality in places such as offices, stores, cafes and restaurants and by purifying the inhaled air from harmful components. It is also extremely suitable for places such as exhibitions, cinemas and theaters with its low noise level. Purifa devices do not only filter the air, but also disinfect the air by neutralizing harmful organisms such as mold, bacteria and viruses in the air with the UV-C lamps inside them.



BSK PURIFA SERIES



Technical Specifications

	PURIFA 300	PURIFA 2000
Max. Flow Rate	300 m³/h	1600 m³/h
Dimensions	520x505x840 mm	600x700x1900 mm
Weight	40kg	200kg
Electrical Power (UV Off/On)	45W / 90W	460W / 630W
Noise level	49 dB(A)	52 dB(A)
Filters	G4 Pre-filter Carbon Filter H13 HEPA Filter	F9 Compact Filter Carbon Filter H14 HEPA Filter
UV-C Lamp Power	36W	165W
Other	Adjustable fan speeds, Independent filter occupancy sensors	Digital control panel, CO ₂ sensor, Weekly program

NOTES

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BSK Ventilation Equipment INC.

📍 Mimar Sinan mah. Basra cad. No: 59 / A
Sultanbeyli, İstanbul

☎ +90 (216) 669 09 70

🌐 info@bskhavalandirma.com.tr

www.bskhvac.com.tr