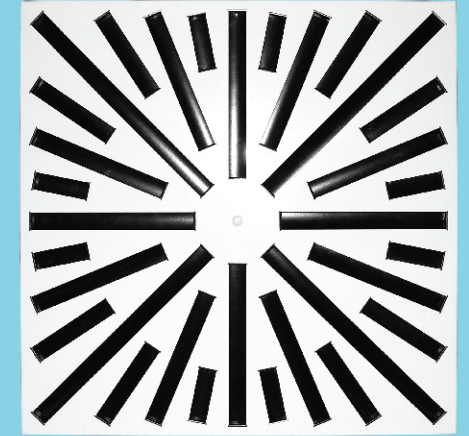
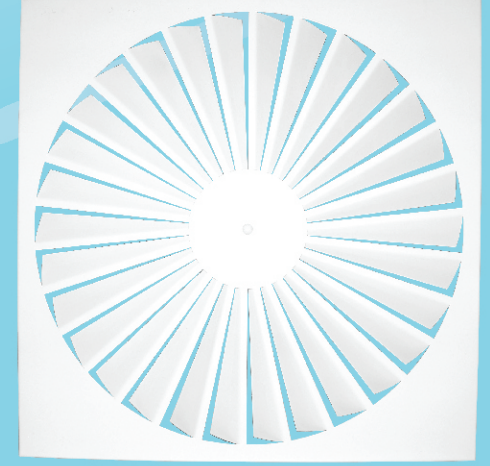
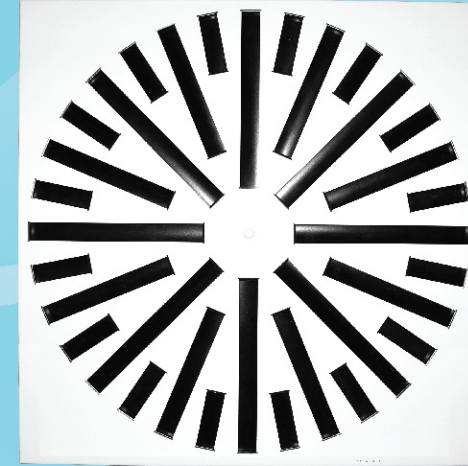




Swirl Difüzörler

Swirl Diffusers



BSK HAVALANDIRMA EKİPMANLARI A.Ş.

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BSK HAVALANDIRMA EKİPMANLARI A.Ş.

BSWA TİPİ SWİRL DİFÜZÖR

BSWA TYPE SWIRL DIFFUSER

- Model:** *BSWA : Ayarlanabilir, dairesel kanatlı ve kare ön tablalı swirl difüzör.
- Malzeme:** Ürün ön tablası DKP sacdan, kanatlar ise siyah plastikten imal edilmektedir.
- Kullanım:** Taze havanın mahal havası ile süratli bir şekilde karışmasını sağlayarak ofis, toplantı odası, dükkan, sinema ve temiz oda gibi tavan yüksekliği 2,6 mt ile 4 mt arasında olan ortamlara şartlandırılmış sıcak veya soğuk havanın üflenmesi ve bu ortamlardan kirli havanın emilmesinde kullanılırlar.
- Kaplama:** * Elektrostatik toz boya (Standart renkler RAL 9010 ve RAL 9016)
* İsteğe bağlı olarak diğer tüm RAL kodundaki renkler de temin edilmektedir.
- Montaj:** * Plenum kutusuna köprülü montaj.
- Aksesuar:** * BPB: Plenum kutusu.
- Sipariş Kodu:** Model / Ebat / Kanat Sayısı / Aksesuar / Kaplama Tipi

- Model:** *BSWA : Swirl diffuser that has adjustable radial blades and square faceplate.
- Material:** Product faceplate is manufactured from DKP sheet, blades are manufactured from plastic, as for.
- 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.
- Coating:** * Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
* Depending on demand, all the colors in other RAL codes are provided too.
- Installation:** * Installation with bridge to plenum box
- Aksesuar:** * BPB: Plenum kutusu.
- Order Code:** Model / Size / Blade Number / Accessory / Coating Type

BSWC Tipi Swirl Difüzör Sipariş Kodu

BSWC Type Swirl Diffuser Ordering Code

	Model Model	Ebat Size	Kanat Sayısı Blade Number	Aksesuar Accessory	Kaplama Coating
	BSWC	F x L (mm)	30	BPB	EPC9010
BSWC	SABİT RADYAL KANATLI VE KARE ÖN TABLALI SWİRL DİFÜZÖR SWIRL DIFFUSER THAT HAS FIXED RADIAL BLADES AND SQUARE FACEPLATE		Ebatlar için sayfa 15'e bakınız. Look at page 15 for sizes		
30	KANAT SAYISI BLADE NUMBER				
BPB	PLENUM KUTUSU PLENUM BOX				
EPC	ELEKTROSTATİK TOZ BOYA ELECTROSTATIC POWDER COATING		** Lütfen RAL renk kodunu belirtiniz. ** Please mention RAL color code.		

Ornek Sipariş Kodlaması:	Model	Ebat	Kanat Sayısı	Aksesuar	Kaplama
Sample Ordering Code:	Model	Size	Blade Number	Accessory	Coating
	BSWC	F x L (mm) [300 x 300 (mm)]	30	BPB	EPC9010

Bu föy sürekli olarak güncellenmektedir.
Dolayısıyla, teknik değişiklikler ve adaptasyonlar mümkündür!
Uygulamanızı birlikte belirleyebilmemiz için lütfen bizimle iletişim kurunuz!

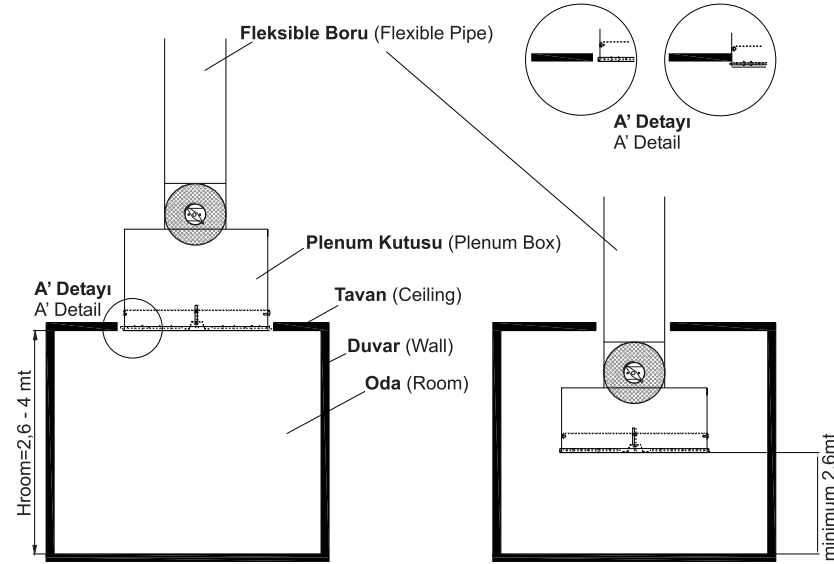
This booklet is updated constantly.
Therefore, technical changes and adaptations are possible!
Please contact us, in order to define your application together!

Swirl Difüzör Montaj Tipleri*

Swirl Diffuser Fixing Types**

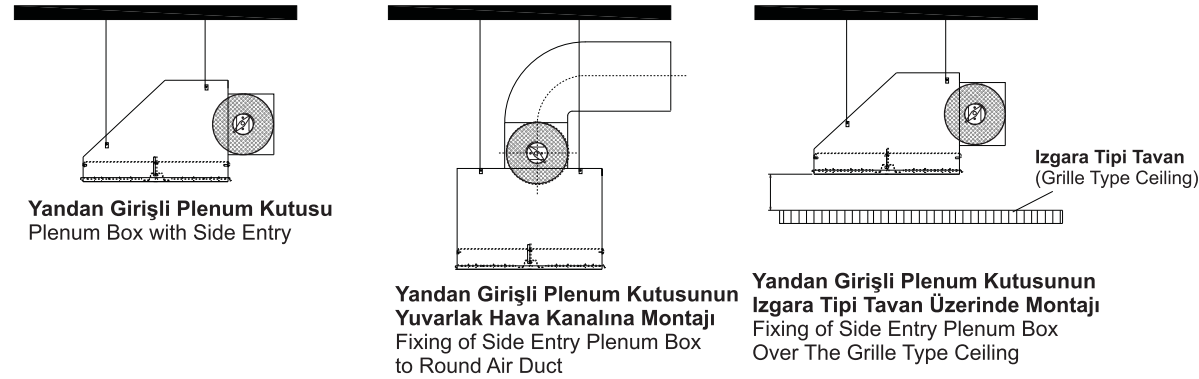
Tavana Montaj Tipleri

Fixing Types to Ceiling



Askılı Montaj Tipleri

Fixing Types with Hanging Mechanism



Hroom : Oda yüksekliği (The height of room)

*NOT : BSWA, BSWB, BSWC Tipi Swirl Difüzörler İçin Montaj Tipleri Aynıdır.

**NOTE : The Fixing Types for BSWA, BSWB, BSWC Type Swirl Diffusers are same.

BSWA Tipi Swirl Difüzör Standart Ölçüler Tablosu

BSWA Type Swirl Diffuser Standard Dimensions Table

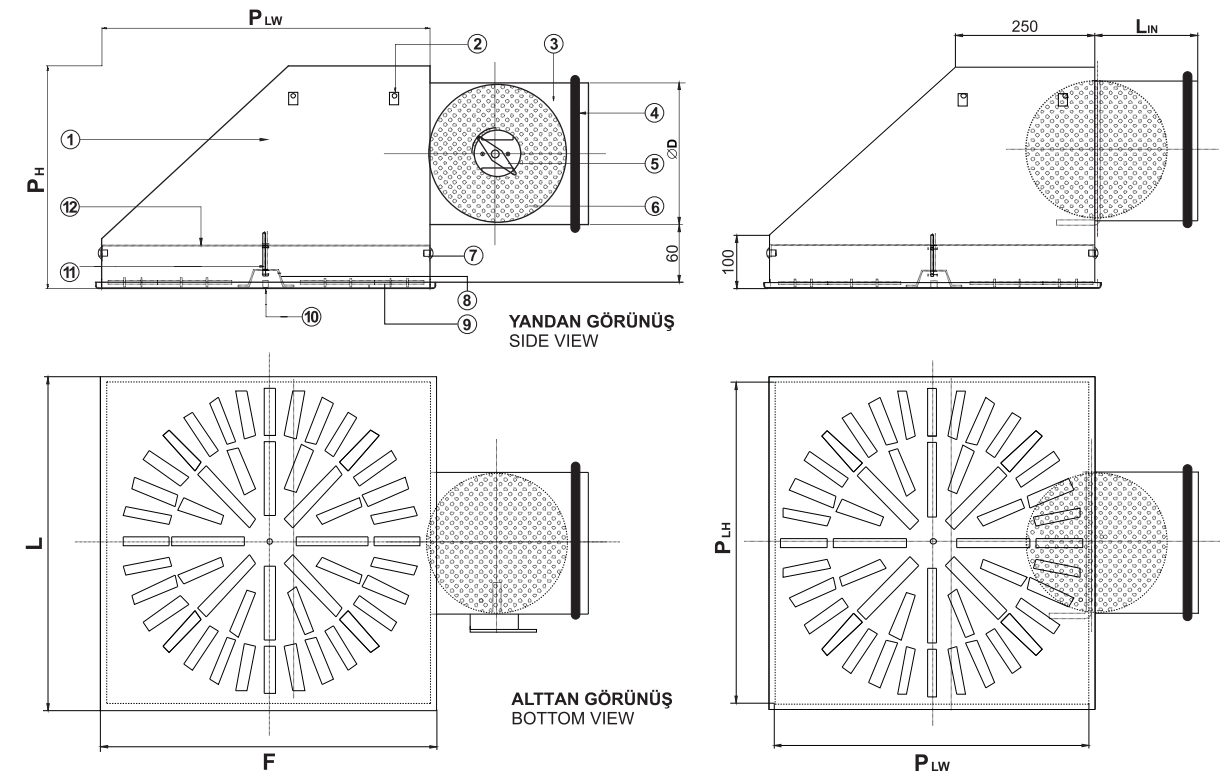
Ölçü Size	F = L (mm)	P _{LW} = P _{LH} (mm)	P _H (mm)	ØD (mm)	P' _H (mm)	L _{IN} (mm)
310	310	290	315	157	250	40
400	400	380	315	157	250	40
500	500	480	405	250	340	60
600 (595)	600 (595)	580 (575)	405	250	340	60
625	625	605	405	250	340	60
800	800	780	500	353	-	-

BSWA Tipi Swirl Difüzör Teknik Detaylar

BSWA Type Swirl Diffuser Technical Details

YANDAN GİRİŞLİ & DIŞTAN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & EXTERNAL COMMAND

YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & INTERNAL COMMAND



- | | |
|--------------------------------|---------------------------------|
| 1 Plenum kutusu | 1 Plenum box |
| 2 Askı elemanı | 2 Hanging element |
| 3 Giriş ağız | 3 Inlet |
| 4 Kordon | 4 Cordon |
| 5 Kumanda kolu | 5 Control handle |
| 6 Hava kontrol damperi | 6 Air control damper |
| 7 Montaj vidası | 7 Fixing screw |
| 8 Swirl difüzör montaj elemanı | 8 Swirl diffuser fixing element |
| 9 Swirl difüzör kanadı | 9 Swirl diffuser blade |
| 10 Swirl difüzör tıpası | 10 Swirl diffuser tap |
| 11 Saplama | 11 Stud bolt |
| 12 Plenum kutusu köprü elemanı | 12 Plenum box bridge element |

- | | |
|----------------------|---|
| F (mm) | : Çerçeve uzunluğu (Frame length) |
| L (mm) | : Çerçeve genişliği (Frame width) |
| P _{LW} (mm) | : Plenum kutusu uzunluğu (Plenum box length) |
| P _{LH} (mm) | : Plenum kutusu genişliği (Plenum box width) |
| P _H (mm) | : Plenum kutusu yüksekliği (Plenum box height) |
| P' _H (mm) | : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets) |
| ØD (mm) | : Plenum kutusu giriş ağız çapı (Plenum box inlet diameter) |
| L _{IN} (mm) | : Plenum kutusu giriş ağız uzunluğu (Plenum box inlet length) |

BSWA Tipi Swirl Difüzör Teknik Detayları

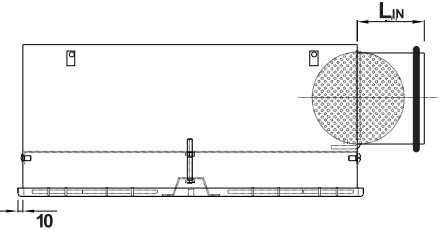
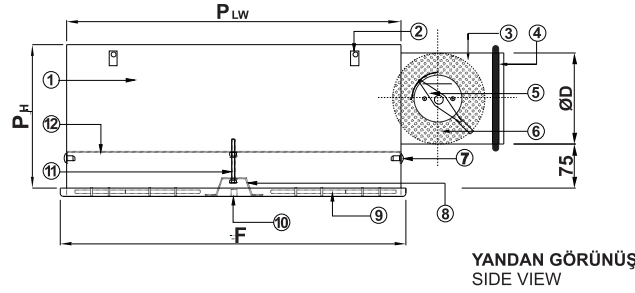
BSWA Type Swirl Diffuser Technical Details

İki Giriş Ağızlı Plenum Kutusu Uygulaması

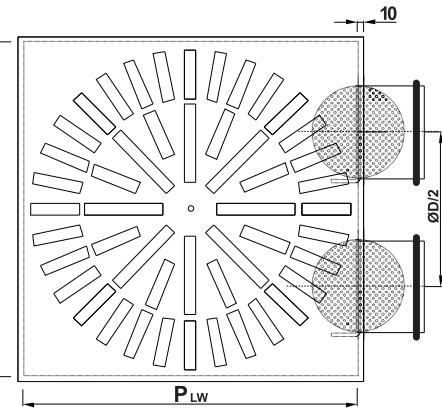
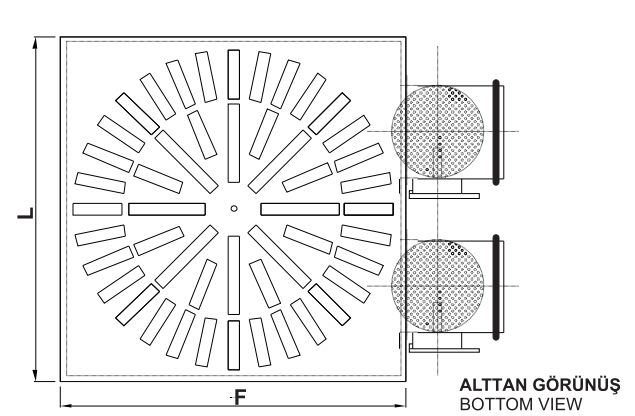
Plenum Box Application with Two Inlets

YANDAN GİRİŞLİ & DIŞTAN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & EXTERNAL COMMAND

YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & INTERNAL COMMAND



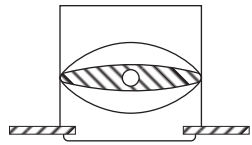
- 1 Plenum kutusu
- 2 Askı elemanı
- 3 Giriş ağız
- 4 Kordon
- 5 Kumanda kolu
- 6 Hava kontrol damperi
- 7 Montaj vidası
- 8 Swirl difüzör montaj elemanı
- 9 Swirl difüzör kanadı
- 10 Swirl difüzör tıpası
- 11 Saplama
- 12 Plenum kutusu köprü elemanı



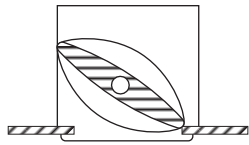
- 1 Plenum box
- 2 Hanging element
- 3 Inlet
- 4 Cordon
- 5 Control handle
- 6 Air control damper
- 7 Fixing screw
- 8 Swirl diffuser fixing element
- 9 Swirl diffuser blade
- 10 Swirl diffuser tap
- 11 Stud bolt
- 12 Plenum box bridge element

Kanat Pozisyonları

Blade Positions



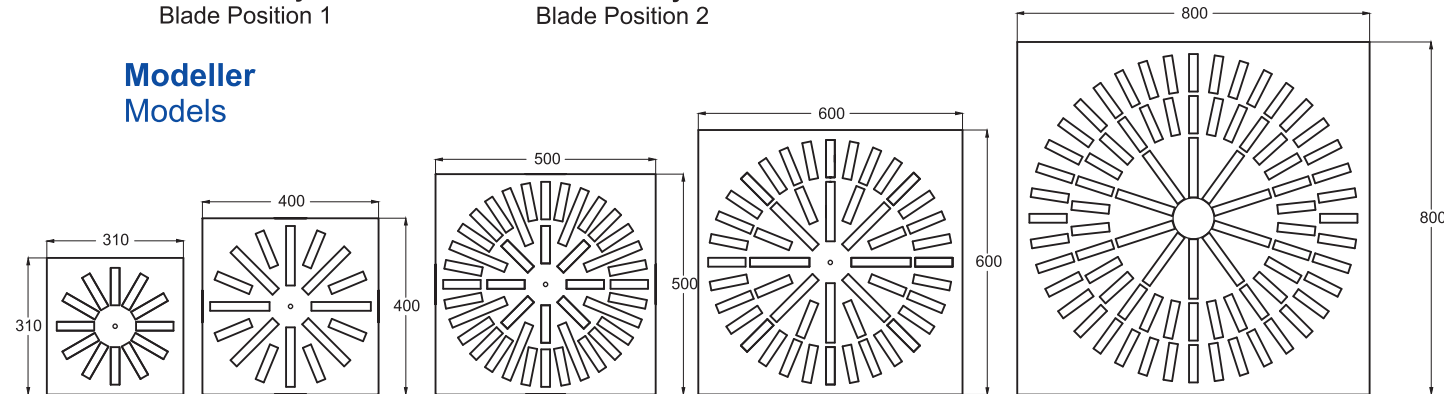
Kanat Pozisyonu 1
Blade Position 1



Kanat Pozisyonu 2
Blade Position 2

Modeller

Models



- F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
P_{LW} (mm) : Plenum kutusu uzunluğu (Plenum box length)
P_{LH} (mm) : Plenum kutusu genişliği (Plenum box width)
P_H (mm) : Plenum kutusu yüksekliği (Plenum box height)
P_H (mm) : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets)
ØD (mm) : Plenum kutusu giriş ağız çapı (Plenum box inlet diameter)
L_{IN} (mm) : Plenum kutusu giriş ağız uzunluğu (Plenum box inlet length)

BSWC Tipi Swirl Difüzör Seçim Tablosu

BSWC Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	$\left[\frac{V}{m^3/h} \right]$ (L/s)	u _L (m/s)	0,10	0,15	0,20	0,25
400 x 400	0,078	30	170 (47,2)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	2,90 7,0 <20,0	2,31 7,0 <20,0	1,73 7,0 <20,0	1,15 7,0 <20,0
			205 (56,9)		3,60 10,5 21,0	2,87 10,5 21,0	2,15 10,5 21,0	1,43 10,5 21,0
			240 (66,7)		4,30 14,0 24,0	3,44 14,0 24,0	2,57 14,0 24,0	1,70 14,0 24,0
			275 (76,4)		4,90 19,0 28,5	3,91 19,0 28,5	2,92 19,0 28,5	1,93 19,0 28,5
			310 (86,1)		5,50 24,0 33,0	4,39 24,0 33,0	3,27 24,0 33,0	2,15 24,0 33,0
			380 (105,6)		6,70 35,0 38,0	5,34 35,0 38,0	3,97 35,0 38,0	2,60 35,0 38,0
			450 (125)		8,00 52,0 44,0	6,40 52,0 44,0	4,80 52,0 44,0	3,20 52,0 44,0
500 x 500	0,140	30	220 (61,1)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,30 7,0 <20,0	2,64 7,0 <20,0	1,97 7,0 <20,0	1,30 7,0 <20,0
			260 (72,2)		3,90 9,0 21,5	3,11 9,0 21,5	2,33 9,0 21,5	1,55 9,0 21,5
			300 (83,3)		4,50 11,0 25,0	3,60 11,0 25,0	2,70 11,0 25,0	1,80 11,0 25,0
			320 (88,9)		5,70 17,0 31,0	4,54 17,0 31,0	3,37 17,0 31,0	2,20 17,0 31,0
			390 (108,3)		6,35 21,0 34,0	5,05 21,0 34,0	3,75 21,0 34,0	2,45 21,0 34,0
			460 (127,6)		7,00 25,0 37,0	5,56 25,0 37,0	4,13 25,0 37,0	2,70 25,0 37,0
			540 (150)		8,20 38,0 42,0	6,54 38,0 42,0	4,87 38,0 42,0	3,20 38,0 42,0
600 x 600 (625 x 625)	0,218	30	290 (80,6)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,75 6,0 20,0	3,00 6,0 20,0	2,25 6,0 20,0	1,50 6,0 20,0
			330 (91,7)		4,40 8,5 24,0	3,52 8,5 24,0	2,65 8,5 24,0	1,78 8,5 24,0
			375 (104,2)		5,05 11,0 28,0	4,05 11,0 28,0	3,05 11,0 28,0	2,05 11,0 28,0
			460 (127,8)		6,25 14,0 32,0	5,00 14,0 32,0	3,75 14,0 32,0	2,50 14,0 32,0
			500 (138,9)		6,88 17,0 34,5	5,51 17,0 34,5	4,13 17,0 34,5	2,75 17,0 34,5
			545 (151,4)		7,50 20,0 37,0	6,00 20,0 37,0	4,50 20,0 37,0	3,00 20,0 37,0
			630 (175)		8,70 28,0 42,0	6,96 28,0 42,0	5,23 28,0 42,0	3,50 28,0 42,0

- V [m³/h (L/s)] : Hava debisi (Air flow rate)
u_L (m/s) : Konfor bölgesindeki hava hızı (Air velocity in the comfort zone)
D_t (m) : Atış mesafesi (Throw distance)
F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
A_{eff.} (m²) : Efektif alan (Effective area)
ΔP_{tot.} (Pa) : Basınç kaybı (Pressure drop)
SPL (dBA) : Ses basınç seviyesi (Sound power level)

BSWB Tipi Swirl Difüzör Teknik Detayları

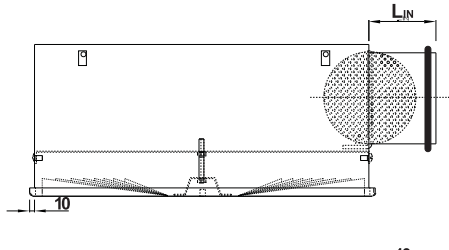
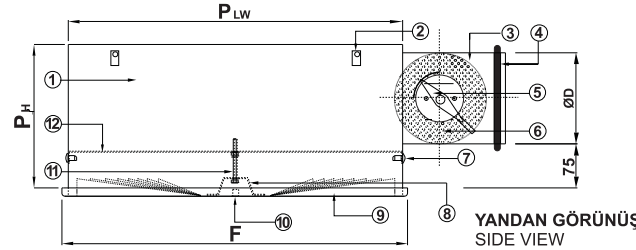
BSWB Type Swirl Diffuser Technical Details

İki Giriş Ağızlı Plenum Kutusu Uygulaması

Plenum Box Application with Two Inlets

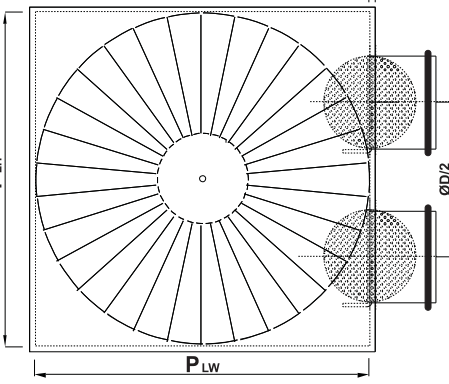
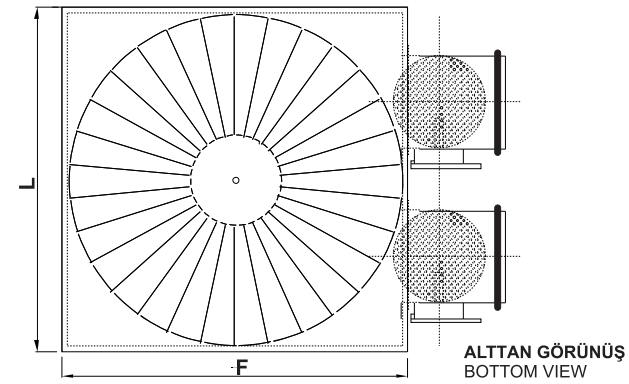
YANDAN GİRİŞLİ & DIŞTAN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & EXTERNAL COMMAND

YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & INTERNAL COMMAND



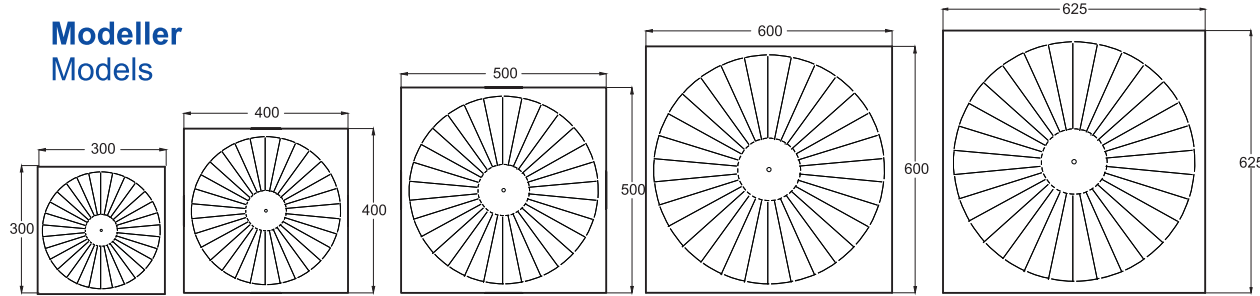
- 1 Plenum kutusu
- 2 Askı elemanı
- 3 Giriş ağız
- 4 Kordon
- 5 Kumanda kolu
- 6 Hava kontrol damperi
- 7 Montaj vidası
- 8 Swirl difüzör montaj elemanı
- 9 Swirl difüzör kanadı
- 10 Swirl difüzör tıpası
- 11 Saplama
- 12 Plenum kutusu köprü elemanı

- 1 Plenum box
- 2 Hanger element
- 3 Inlet
- 4 Cordon
- 5 Control handle
- 6 Air control damper
- 7 Fixing screw
- 8 Swirl diffuser fixing element
- 9 Swirl diffuser blade
- 10 Swirl diffuser tap
- 11 Stud bolt
- 12 Plenum box bridge element



Modeller

Models



BSWC Tipi Swirl Difüzör Seçim Tablosu

BSWC Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25
300 x 300	0,031	30	140 (38,9)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,10 17,0 31,0	2,54 17,0 31,0	1,97 17,0 31,0	1,40 17,0 31,0	220 (61,1)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	4,90 38,0 42,0	3,99 38,0 42,0	3,07 38,0 42,0	2,15 38,0 42,0
			160 (44,4)		3,50 22,0 34,0	2,86 22,0 34,0	2,22 22,0 34,0	1,58 22,0 34,0	260 (72,2)		5,60 52,0 47,0	4,56 52,0 47,0	3,53 52,0 47,0	2,50 52,0 47,0
			180 (50,0)		3,90 27,0 37,0	3,19 27,0 37,0	2,47 27,0 37,0	1,75 27,0 37,0	300 (83,3)		6,60 70,0 50,0	5,40 70,0 50,0	4,20 70,0 50,0	3,00 70,0 50,0
			200 (55,6)		4,40 32,5 39,5	3,59 32,5 39,5	2,77 32,5 39,5	1,95 32,5 39,5						

- F (mm)** : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
P_{LW} (mm) : Plenum kutusu uzunluğu (Plenum box length)
P_{LH} (mm) : Plenum kutusu genişliği (Plenum box width)
P_H (mm) : Plenum kutusu yüksekliği (Plenum box height)
P'_H (mm) : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets)
ØD (mm) : Plenum kutusu giriş ağız çapı (Plenum box inlet diameter)
L_{IN} (mm) : Plenum kutusu giriş ağız uzunluğu (Plenum box inlet length)

BSWA Tipi Swirl Difüzör Seçim Tablosu

BSWA Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25
310 x 310	0,020	12	100 (27,8)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	1,90 7,0 <20	1,54 7,0 <20	1,17 7,0 <20	0,80 7,0 <20
			125 (34,7)		2,30 10,0 21	1,86 10,0 21	1,43 10,0 21	1,00 10,0 21
			150 (41,7)		2,70 13,0 23	2,20 13,0 23	1,70 13,0 23	1,20 13,0 23
			175 (48,6)		3,10 18,5 27,5	2,54 18,5 27,5	1,97 18,5 27,5	1,40 18,5 27,5
			200 (55,6)		3,50 24,0 32,0	2,86 24,0 32,0	2,23 24,0 32,0	1,60 24,0 32,0
			250 (69,4)		4,80 37,0 36,0	3,90 37,0 36,0	3,00 37,0 36,0	2,10 37,0 36,0
			300 (83,3)		5,50 50,0 42,0	4,50 50,0 42,0	3,50 50,0 42,0	2,50 50,0 42,0
400 x 400	0,035	16	180 (50,0)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	2,66 15,0 25,0	2,26 15,0 25,0	1,85 15,0 25,0	1,44 15,0 25,0
			200 (55,6)		2,96 20,0 27,7	2,51 20,0 27,7	2,07 20,0 27,7	1,63 20,0 27,7
			260 (72,2)		3,55 30,0 33,0	3,04 30,0 33,0	2,52 30,0 33,0	2,00 30,0 33,0
			300 (83,3)		3,99 38,5 36,5	3,38 38,5 36,5	2,76 38,5 36,5	2,14 38,5 36,5
			340 (94,4)		4,44 47,0 40,0	3,72 47,0 40,0	3,00 47,0 40,0	2,28 47,0 40,0
			420 (116,7)		4,77 75,0 46,0	4,06 75,0 46,0	3,36 75,0 46,0	2,66 75,0 46,0
			500 (138,9)		5,55 110,0 55,0	4,70 110,0 55,0	3,85 110,0 55,0	3,00 110,0 55,0
500 x 500	0,076	40	300 (83,3)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	2,76 8,0 23,0	2,34 8,0 23,0	1,91 8,0 23,0	1,48 8,0 23,0
			450 (125)		3,92 18,0 32,0	3,32 18,0 32,0	2,72 18,0 32,0	2,12 18,0 32,0
			500 (138,9)		4,24 26,0 36,5	3,61 26,0 36,5	2,97 26,0 36,5	2,33 26,0 36,5
			600 (166,7)		4,56 34,0 41,0	3,88 34,0 41,0	3,21 34,0 41,0	2,54 34,0 41,0
			750 (208,3)		5,30 60,0 46,0	4,48 60,0 46,0	3,67 60,0 46,0	2,86 60,0 46,0
			800 (222,2)		5,83 75,0 48,0	4,93 75,0 48,0	4,03 75,0 48,0	3,13 75,0 48,0
			900 (250)		6,36 90,0 50,0	5,37 90,0 50,0	4,38 90,0 50,0	3,39 90,0 50,0

- V [m³/h (L/s)]** : Hava debisi (Air flow rate)
u_L (m/s) : Konfor bölgesindeki hava hızı (Air velocity in the comfort zone)
D_t (m) : Atış mesafesi (Throw distance)
F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
A_{eff.} (m²) : Efektif alan (Effective area)
ΔP_{tot.} (Pa) : Basınç kaybı (Pressure drop)
SPL (dBA) : Ses basınç seviyesi (Sound power level)

BSWA Tipi Swirl Difüzör Seçim Tablosu
BSWA Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25
600 x 600	0,089	48	400 (111,1)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,15 10,0 20,0	2,62 10,0 20,0	2,10 10,0 20,0	1,58 10,0 20,0
			450 (125)		3,54 12,7 23,3	2,97 12,7 23,3	2,39 12,7 23,3	1,81 12,7 23,3
			500 (138,9)		3,93 15,4 26,6	3,30 15,4 26,6	2,67 15,4 26,6	2,04 15,4 26,6
			550 (152,8)		4,31 18,0 30,0	3,62 18,0 30,0	2,94 18,0 30,0	2,26 18,0 30,0
			700 (194,4)		5,25 26,0 35,0	4,41 26,0 35,0	3,57 26,0 35,0	2,73 26,0 35,0
			850 (236,1)		6,30 39,0 41,0	5,25 39,0 41,0	4,20 39,0 41,0	3,15 39,0 41,0
			1000 (277,8)		7,35 55,0 46,0	6,09 55,0 46,0	4,83 55,0 46,0	3,57 55,0 46,0
			700 (194,4)		3,92 8,0 <20,0	3,24 8,0 <20,0	2,57 8,0 <20,0	1,90 8,0 <20,0
			825 (229,2)		4,43 13,0 24,5	3,70 13,0 24,5	2,97 13,0 24,5	2,24 13,0 24,5
			950 (263,9)		4,93 18,0 31,0	4,14 18,0 31,0	3,36 18,0 31,0	2,58 18,0 31,0
			1075 (298,6)		5,44 21,5 34,0	4,56 21,5 34,0	3,68 21,5 34,0	2,80 21,5 34,0
			1200 (333,3)		5,94 25,0 37,0	4,96 25,0 37,0	3,99 25,0 37,0	3,02 25,0 37,0
800 x 800	0,146	80	1450 (402,8)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	7,28 36,0 45,0	6,04 36,0 45,0	4,81 36,0 45,0	3,58 36,0 45,0
			1700 (472,2)		8,29 46,0 48,0	6,90 46,0 48,0	5,52 46,0 48,0	4,14 46,0 48,0

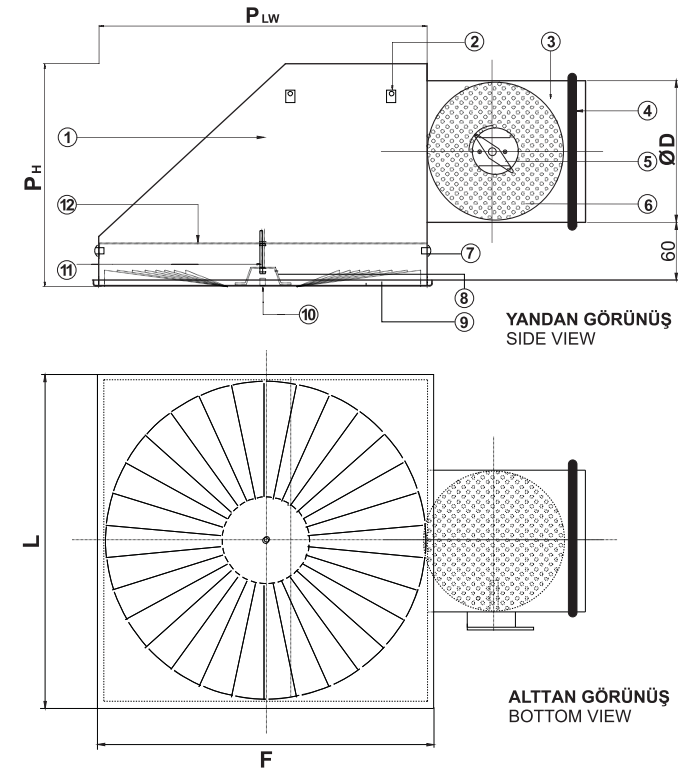
V [m³/h (L/s)] : Hava debisi (Air flow rate)
u_L (m/s) : Konfor bölgesindeki hava hızı (Air velocity in the comfort zone)
D_t (m) : Atış mesafesi (Throw distance)
F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
A_{eff.} (m²) : Efektif alan (Effective area)
ΔP_{tot.} (Pa) : Basınç kaybı (Pressure drop)
SPL(dBA) : Ses basınç seviyesi (Sound power level)

BSWC Tipi Swirl Difüzör Standart Ölçüler Tablosu
BSWC Type Swirl Diffuser Standard Dimensions Table

Ölçü Size	F x L (mm)	P _{LW} x P _{LH} (mm)	P _H (mm)	ØD (mm)	P' _H (mm)	L _{IN} (mm)
300	298 x 298	278 x 278	300	198	290	40
400	398 x 398	378 x 378	300	198	290	40
500	498 x 498	478 x 478	300	198	290	40
600	598 x 598	578 x 578	350	248	340	60
625	623 x 623	603 x 603	350	248	340	60

BSWC Tipi Swirl Difüzör Teknik Detayları
BSWC Type Swirl Diffuser Technical Details

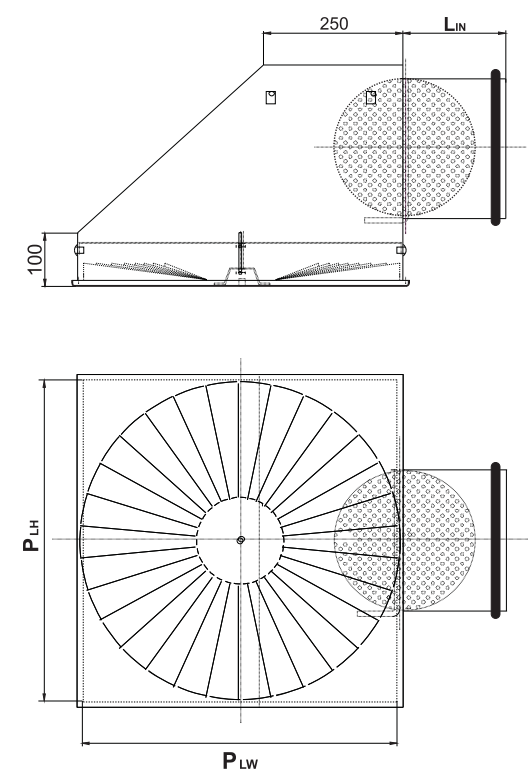
YANDAN GİRİŞLİ & DIŞTAN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY& EXTERNAL COMMAND



- | | |
|--------------------------------|---------------------------------|
| 1 Plenum kutusu | 1 Plenum box |
| 2 Askı elemanı | 2 Hanging element |
| 3 Giriş ağzı | 3 Inlet |
| 4 Kordon | 4 Cordon |
| 5 Kumanda kolu | 5 Control handle |
| 6 Hava kontrol damperi | 6 Air control damper |
| 7 Montaj vidası | 7 Fixing screw |
| 8 Swirl difüzör montaj elemanı | 8 Swirl diffuser fixing element |
| 9 Swirl difüzör kanadı | 9 Swirl diffuser blade |
| 10 Swirl difüzör tıpası | 10 Swirl diffuser tap |
| 11 Saplama | 11 Stud bolt |
| 12 Plenum kutusu köprü elemanı | 12 Plenum box bridge element |

F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
P_{LW} (mm) : Plenum kutusu uzunluğu (Plenum box length)
P_{LH} (mm) : Plenum kutusu genişliği (Plenum box width)
P_H (mm) : Plenum kutusu yüksekliği (Plenum box height)
P'_H (mm) : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets)
ØD (mm) : Plenum kutusu giriş ağzı çapı (Plenum box inlet diameter)
L_{IN} (mm) : Plenum kutusu giriş ağzı uzunluğu (Plenum box inlet length)

YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY& INTERNAL COMMAND



BSWC TİPİ SWİRL DİFÜZÖR

BSWC TYPE SWIRL DIFFUSER

- Model:** *BSWC : Sabit radyal kanatlı ve kare ön tablalı swirl difüzör.
- Malzeme:** Ürün yüzeyi ve kanatları DKP sacdan imal edilmektedir.
- Kullanım:** 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.
- Kaplama:** * Elektrostatik toz boya (Standart renkler RAL 9010 ve RAL 9016)
* İsteğe bağlı olarak diğer tüm RAL kodundaki renkler de temin edilmektedir.
- Montaj:** * Plenum kutusuna köprülü montaj.
- Aksesuar:** * BPB: Plenum kutusu.
- Sipariş Kodu:** Model / Ebat / Kanat Sayısı / Aksesuar / Kaplama Tipi

- Model:** *BSWC : Swirl diffuser that has fixed radial blades and square faceplate.
- Material:** Product surface and blades are manufactured from DKP sheet.
- Usage:** BSWC model swirl diffusers are ideal for places where high air flow rate is necessary. They are suitable for usage in places that have ceiling heights between 2,6 - 4 mt. They carry out the function of supplying hot or cold conditioned air from ventilation ducts to ambiances and suction of polluted air from these ambiances. Front faceplate is manufactured in square form. Blades are fixed.
- Coating:** * Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016)
* Depending on demand, all the colors in other RAL codes are provided too.
- Installation:** * Installation to plenum box with bridge.
- Aksesuar:** * BPB: Plenum kutusu.
- Order Code:** Model / Size / Blade Number / Accessory / Coating Type

BSWA Tipi Swirl Difüzör Sipariş Kodu

BSWA Type Swirl Diffuser Ordering Code

	Model Model	Ebat Size	Kanat Sayısı Blade Number	Aksesuar Accessory	Kaplama Coating
	BSWA	F x L (mm)	16	BPB	EPC9010
BSWA	AYARLANABİLİR DAİRESEL KANATLI ve KARE ÖN TABLALI SWİRL DİFÜZÖR SWIRL DIFFUSER THAT HAS ADJUSTABLE RADIAL BLADES and SQUARE FACEPLATE		Ebatlar için sayfa 3'e bakınız. Look at page 3 for sizes		
16	KANAT SAYISI BLADE NUMBER				
BPB	PLENUM KUTUSU PLENUM BOX				
EPC	ELEKTROSTATİK TOZ BOYA ELECTROSTATIC POWDER COATING		** Lütfen RAL renk kodunu belirtiniz. ** Please mention RAL color code.		

Ornek Sipariş Kodlaması: Sample Ordering Code:	Model \ Model	Ebat \ Size	Kanat Sayısı \ Blade Number	Aksesuar \ Accessory	Kaplama \ Coating
	BSWA \	F x L (mm) \ [400 x 400 (mm)]	16 \	BPB \	EPC9010

BSWB TİPİ SWİRL DİFÜZÖR

BSWB TYPE SWIRL DIFFUSER

Model:	*BSWB : Ayarlanabilir, kare formda kanatlı ve kare ön tablalı swirl difüzör.
Malzeme:	Ürün yüzeyi DKP sacdan ve kanatlar ise siyah plastikten imal edilmektedir.
Kullanım:	Taze havanın mahal havası ile süratli bir şekilde karışmasını sağlamak için üfleme ve toplama kanallarında kullanılır. BSWB model swirl difüzörler 2,6 mt ile 4 mt arası tavan yüksekliklerine sahip mekanlarda kullanıma uygundur. Swirl difüzör yüzeyleri kare şeklinde imal edilir.
Kaplama:	* Elektrostatik toz boya (Standart renkler RAL 9010 ve RAL 9016) * İsteğe bağlı olarak diğer tüm RAL kodundaki renkler de temin edilmektedir.
Montaj:	* Plenum kutusuna köprülü montaj.
Aksesuar:	* BPB: Plenum kutusu.
Sipariş Kodu:	Model / Ebat / Kanat Sayısı / Aksesuar / Kaplama Tipi
Model:	*BSWB : Swirl diffuser that has adjustable blades in the square form and square faceplate.
Material:	Product surface is manufactured from DKP sheet and blades are from black plastic, as for.
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.
Coating:	* Electrostatic powder coating (Standard colors are RAL 9010 and RAL 9016) * Depending on demand, all the colors in other RAL codes are provided too.
Installation:	* Installation to plenum box with bridge.
Aksesuar:	* BPB: Plenum kutusu.
Order Code:	Model / Size / Blade Number / Accessory / Coating Type

BSWB Tipi Swirl Difüzör Sipariş Kodu

BSWB Type Swirl Diffuser Ordering Code

	Model Model	Ebat Size	Kanat Sayısı Blade Number	Aksesuar Accessory	Kaplama Coating
	BSWB	F x L (mm)	16	BPB	EPC9010
BSWB	AYARLANABİLİR KARE FORMDA KANATLI VE KARE ÖN TABLALI SWİRL DİFÜZÖR SWİRL DIFFUSER THAT HAS ADJUSTABLE BLADES IN TYHE SQUARE FORM AND SQUARE FACEPLATE				
16	KANAT SAYISI BLADE NUMBER				
BPB	PLENUM KUTUSU PLENUM BOX				
EPC	ELEKTROSTATİK TOZ BOYA ELECTROSTATIC POWDER COATING				

**** Lütfen RAL renk kodunu belirtiniz.**
 ** Please mention RAL color code.

Ornek Sipariş Kodlaması: Sample Ordering Code:	Model Model	Ebat Size	Kanat Sayısı Blade Number	Aksesuar Accessory	Kaplama Coating
	BSWB	F x L (mm) [310 x 310 (mm)]	16	BPB	EPC9010

BSWB Tipi Swirl Difüzör Seçim Tablosu

BSWB Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25
600 x 600	0,110	60	500 (138,9)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,15 18,0 30,0	2,54 18,0 30,0	1,92 18,0 30,0	1,30 18,0 30,0
			600 (166,7)		3,75 24,5 33,5	3,01 24,5 33,5	2,28 24,5 33,5	1,55 24,5 33,5
			700 (194,4)		4,35 31,0 37,0	3,50 31,0 37,0	2,65 31,0 37,0	1,80 31,0 37,0
			800 (222,2)		5,23 38,5 40,5	4,21 38,5 40,5	3,18 38,5 40,5	2,15 38,5 40,5
			900 (250)		6,10 46,0 44,0	4,90 46,0 44,0	3,70 46,0 44,0	2,50 46,0 44,0
			1100 (305,6)		7,35 72,0 48,0	5,90 72,0 48,0	4,45 72,0 48,0	3,00 72,0 48,0
			1300 (361,1)		8,70 82,0 49,0	7,01 82,0 49,0	5,33 82,0 49,0	3,65 82,0 49,0
800 x 800	0,167	96	1000 (277,8)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,60 16,0 29,0	3,19 16,0 29,0	2,77 16,0 29,0	2,35 16,0 29,0
			1100 (305,6)		3,85 18,0 32,0	3,40 18,0 32,0	2,94 18,0 32,0	2,48 18,0 32,0
			1200 (333,3)		4,10 20,0 35,0	3,60 20,0 35,0	3,10 20,0 35,0	2,60 20,0 35,0
			1300 (361,1)		4,25 22,5 37,5	3,74 22,5 37,5	3,22 22,5 37,5	2,70 22,5 37,5
			1400 (388,9)		4,40 25,0 40,0	3,86 25,0 40,0	3,33 25,0 40,0	2,80 25,0 40,0
			1600 (444,4)		4,80 32,0 44,0	4,24 32,0 44,0	3,67 32,0 44,0	3,10 32,0 44,0
			1800 (500)		5,30 46,0 50,0	4,66 46,0 50,0	4,03 46,0 50,0	3,40 46,0 50,0

V [m³/h (L/s)] : Hava debisi (Air flow rate)
u_L (m/s) : Konfor bölgesindeki hava hızı (Air velocity in the comfort zone)
D_t (m) : Atış mesafesi (Throw distance)
F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
A_{eff.} (m²) : Efektif alan (Effective area)
ΔP_{tot.} (Pa) : Basınç kaybı (Pressure drop)
SPL(dBA) : Ses basınç seviyesi (Sound power level)

BSWB Tipi Swirl Difüzör Standart Ölçüler Tablosu

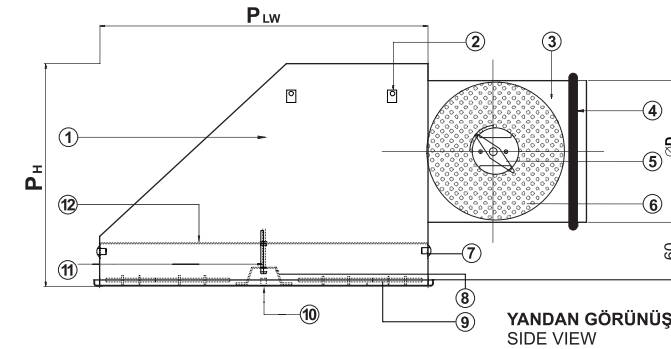
BSWB Type Swirl Diffuser Standard Dimensions Table

Ölçü Size	F = L (mm)	P _{LW} = P _{LH} (mm)	P _H (mm)	ØD (mm)	P _H ' (mm)	L _{IN} (mm)
310	310	290	315	157	250	40
400	400	380	315	157	250	40
500	500	480	405	250	340	60
600 (595)	600 (595)	580 (575)	405	250	340	60
625	625	605	405	250	340	60
800	800	780	500	353	-	-

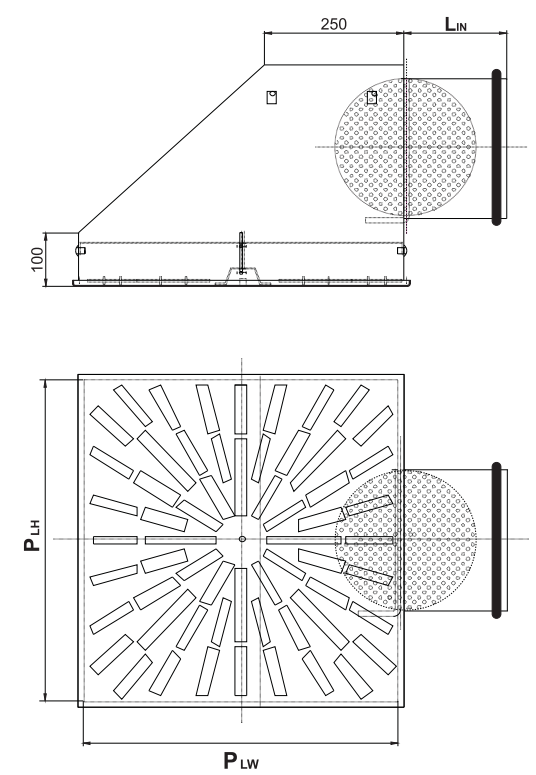
BSWB Tipi Swirl Difüzör Teknik Detayları

BSWB Type Swirl Diffuser Technical Details

YANDAN GİRİŞLİ & DIŞTAN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY& EXTERNAL COMMAND



YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY& INTERNAL COMMAND



- | | |
|--------------------------------|---------------------------------|
| 1 Plenum kutusu | 1 Plenum box |
| 2 Askı elemanı | 2 Hanging element |
| 3 Giriş ağzı | 3 Inlet |
| 4 Kordon | 4 Cordon |
| 5 Kumanda kolu | 5 Control handle |
| 6 Hava kontrol damperi | 6 Air control damper |
| 7 Montaj vidası | 7 Fixing screw |
| 8 Swirl difüzör montaj elemanı | 8 Swirl diffuser fixing element |
| 9 Swirl difüzör kanadı | 9 Swirl diffuser blade |
| 10 Swirl difüzör tıpası | 10 Swirl diffuser tap |
| 11 Saplama | 11 Stud bolt |
| 12 Plenum kutusu köprü elemanı | 12 Plenum box bridge element |

F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
P_{LW} (mm) : Plenum kutusu uzunluğu (Plenum box length)
P_{LH} (mm) : Plenum kutusu genişliği (Plenum box width)
P_H (mm) : Plenum kutusu yüksekliği (Plenum box height)
P_H' (mm) : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets)
ØD (mm) : Plenum kutusu giriş ağzı çapı (Plenum box inlet diameter)
L_{IN} (mm) : Plenum kutusu giriş ağzı uzunluğu (Plenum box inlet length)

BSWB Tipi Swirl Difüzör Teknik Detayları

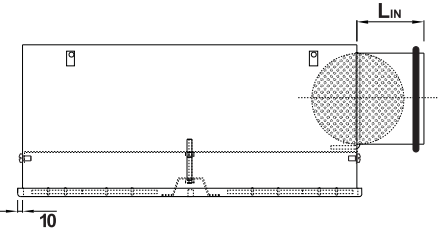
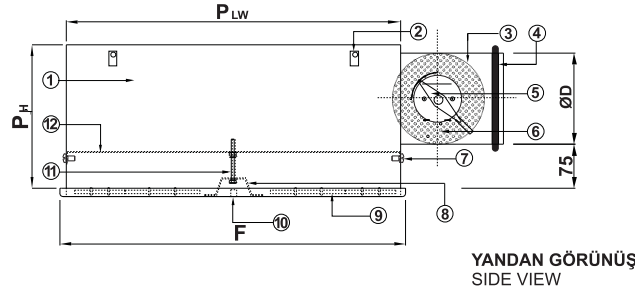
BSWB Type Swirl Diffuser Technical Details

İki Giriş Ağızlı Plenum Kutusu Uygulaması

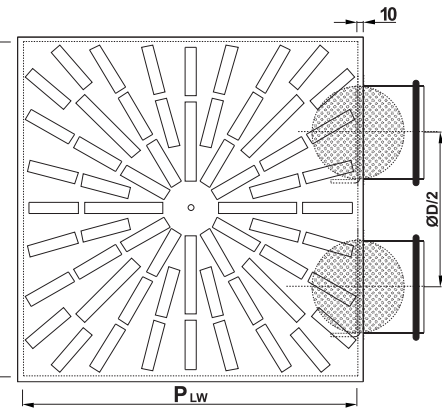
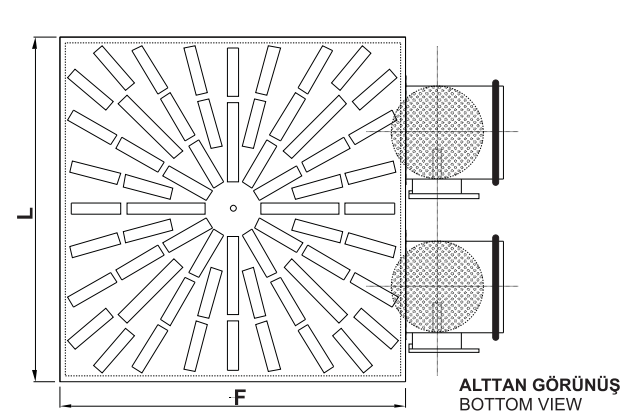
Plenum Box Application with Two Inlets

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SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & EXTERNAL COMMAND

YANDAN GİRİŞLİ & İÇTEN KUMANDALI SWİRL DİFÜZÖR PLENUM KUTUSU
SWIRL DIFFUSER PLENUM BOX WITH SIDE ENTRY & INTERNAL COMMAND



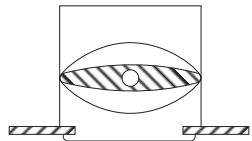
- 1 Plenum kutusu
- 2 Askı elemanı
- 3 Giriş ağız
- 4 Kordon
- 5 Kumanda kolu
- 6 Hava kontrol damperi
- 7 Montaj vidası
- 8 Swirl difüzör montaj elemanı
- 9 Swirl difüzör kanadı
- 10 Swirl difüzör tıpası
- 11 Saplama
- 12 Plenum kutusu köprü elemanı



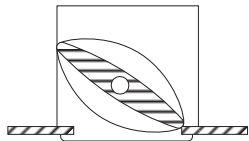
- 1 Plenum box
- 2 Hanger element
- 3 Inlet
- 4 Cordon
- 5 Control handle
- 6 Air control damper
- 7 Fixing screw
- 8 Swirl diffuser fixing element
- 9 Swirl diffuser blade
- 10 Swirl diffuser tap
- 11 Stud bolt
- 12 Plenum box bridge element

Kanat Pozisyonları

Blade Positions



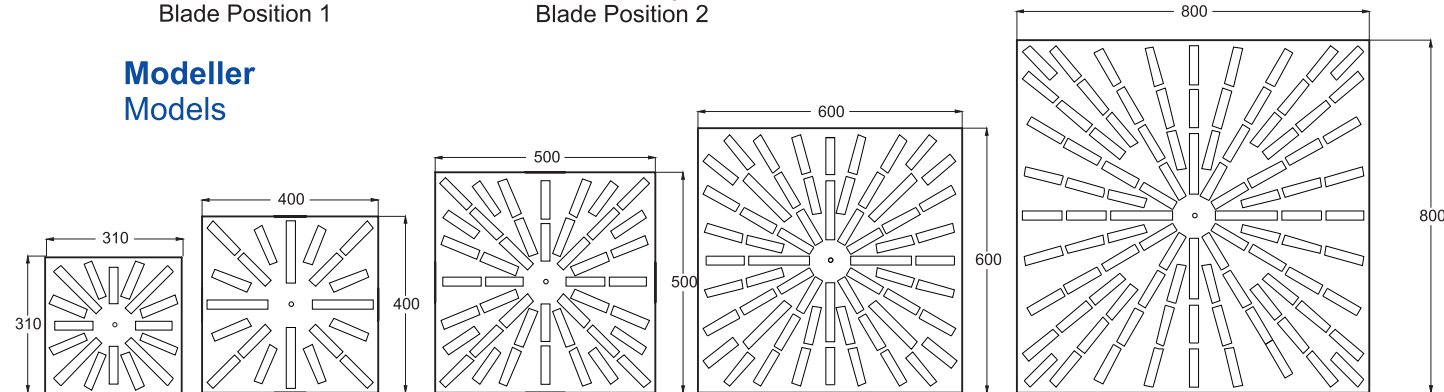
Kanat Pozisyonu 1
Blade Position 1



Kanat Pozisyonu 2
Blade Position 2

Modeller

Models



- F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
P_{LW} (mm) : Plenum kutusu uzunluğu (Plenum box length)
P_{LH} (mm) : Plenum kutusu genişliği (Plenum box width)
P_H (mm) : Plenum kutusu yüksekliği (Plenum box height)
P_H (mm) : İki giriş ağızlı plenum kutusunun yüksekliği (The height of plenum box with two inlets)
ØD (mm) : Plenum kutusu giriş ağız çapı (Plenum box inlet diameter)
L_{IN} (mm) : Plenum kutusu giriş ağız uzunluğu (Plenum box inlet length)

BSWB Tipi Swirl Difüzör Seçim Tablosu

BSWB Type Swirl Diffuser Selection Table

F x L (mm)	A _{eff.} (m ²)	Kanat Sayısı (Blade Number)	V [m ³ /h (L/s)]	u _L (m/s)	0,10	0,15	0,20	0,25
310 x 310	0,031	16	90 (25,0)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	2,25 6,5 <20	1,80 6,5 <20	1,35 6,5 <20	0,90 6,5 <20
			110 (30,6)		2,78 7,75 19,0	2,27 7,75 19,0	1,76 7,75 19,0	1,25 7,75 19,0
			130 (36,1)		3,30 9,0 20,0	2,74 9,0 20,0	2,17 9,0 20,0	1,60 9,0 20,0
			150 (41,7)		3,75 12,5 25,5	3,08 12,5 25,5	2,42 12,5 25,5	1,75 12,5 25,5
			170 (47,2)		4,20 16,0 31,0	3,44 16,0 31,0	2,67 16,0 31,0	1,90 16,0 31,0
			210 (58,3)		5,25 19,0 44,0	4,34 19,0 44,0	3,42 19,0 44,0	2,50 19,0 44,0
			250 (69,4)		6,00 40,0 50,0	5,00 40,0 50,0	4,00 40,0 50,0	3,00 40,0 50,0
400 x 400	0,038	20	180 (50,0)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	2,70 9,0 26,0	2,06 9,0 26,0	1,43 9,0 26,0	0,80 9,0 26,0
			220 (61,1)		3,25 15,0 30,5	2,50 15,0 30,5	1,75 15,0 30,5	1,00 15,0 30,5
			260 (72,2)		3,80 21,0 35,0	2,94 21,0 35,0	2,07 21,0 35,0	1,20 21,0 35,0
			300 (83,3)		4,48 31,5 39,0	3,49 31,5 39,0	2,51 31,5 39,0	1,53 31,5 39,0
			340 (94,4)		5,15 42,0 43,0	4,05 42,0 43,0	2,95 42,0 43,0	1,85 42,0 43,0
			420 (116,7)		6,20 73,0 44,0	5,00 73,0 44,0	3,80 73,0 44,0	2,60 73,0 44,0
			500 (138,9)		7,20 120 49,0	5,80 120 49,0	4,40 120 49,0	3,00 120 49,0
500 x 500	0,075	44	400 (111,1)	D _t (m) ΔP _{tot.} (Pa) SPL (dBA)	3,10 14,0 27,0	2,65 14,0 27,0	2,20 14,0 27,0	1,75 14,0 27,0
			475 (131,9)		3,48 19,0 33,5	2,98 19,0 33,5	2,48 19,0 33,5	1,98 19,0 33,5
			550 (152,8)		3,85 24,0 40,0	3,30 24,0 40,0	2,75 24,0 40,0	2,20 24,0 40,0
			625 (173,6)		4,18 33,0 44,0	3,58 33,0 44,0	2,99 33,0 44,0	2,40 33,0 44,0
			700 (194,4)		4,50 42,0 48,0	3,86 42,0 48,0	3,23 42,0 48,0	2,60 42,0 48,0
			850 (236,1)		5,30 59,0 48,5	4,54 59,0 48,5	3,77 59,0 48,5	3,00 59,0 48,5
			1000 (277,8)		5,70 84,0 54,0	4,86 84,0 54,0	4,03 84,0 54,0	3,20 84,0 54,0

- V [m³/h (L/s)] : Hava debisi (Air flow rate)
u_L (m/s) : Konfor bölgesindeki hava hızı (Air velocity in the comfort zone)
D_t (m) : Atış mesafesi (Throw distance)
F (mm) : Çerçeve uzunluğu (Frame length)
L (mm) : Çerçeve genişliği (Frame width)
A_{eff.} (m²) : Efektif alan (Effective area)
ΔP_{tot.} (Pa) : Basınç kaybı (Pressure drop)
SPL (dBA) : Ses basınç seviyesi (Sound power level)