

Swirl diffusers fixed (SWL/BF)

SWL/BF is a circular/square diffuser with a rotating air pattern. SWL/BF are supplied with a plenum box with vertical or horizontal connection. The box can also be supplied with a balancing damper for supply or exhaust air.

The rotating supply air pattern provides a high degree of induction, making these diffusers well suited to supply of both warm and cooled air.

In addition the bellmouth exit enhances the discharge air pattern. For aesthetic purposes a hinged core perforated diffuser (suffix P) face plate can be fitted.

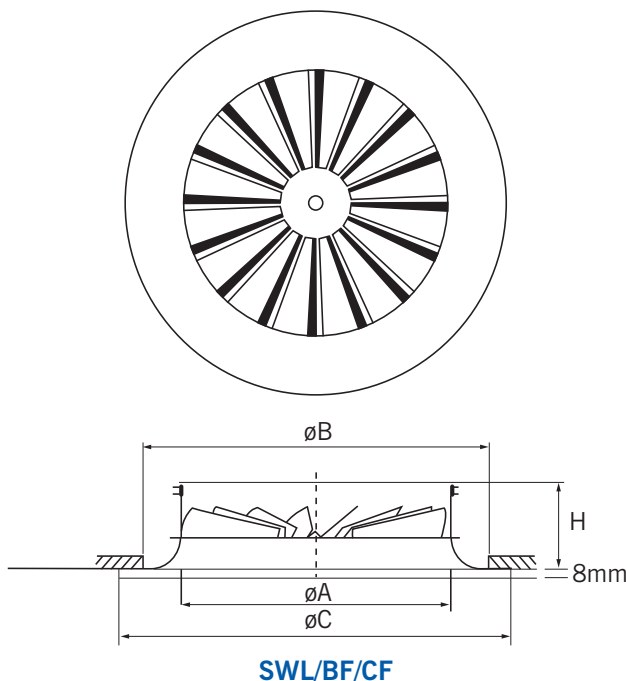
Materials and finish

Front plate: Galvanised steel
 Plenum box:* Galvanised steel
 Standard finish: Powder-coated
 Standard colour: RAL 9010 white

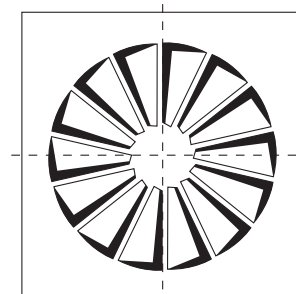
Other colours are available on request.

* Plenum boxes available with top or side spigot connections.

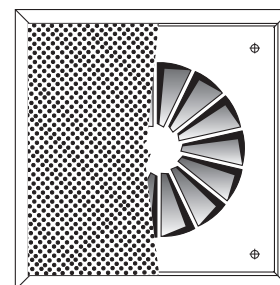
Dimensions



SWL/BF/CF



SWL/BF/SF



SWL/BFP/SF

Size	øA	øC	H	øB
160	160	260	78	200
200	200	290	78	250
250	250	350	78	300
315	315	450	85	400
400	400	567	98	500

* For 8mm returned edge reduce øC by 16mm

Performance data

Diffusers type SWL/BF/CF SWL/BF/SF

Selection data

Throw data is based on a terminal velocity of 0.5m/s and a 10°C cooling differential. For isothermal or 10°C heating conditions reduce throws by approximately 15%.

NR levels are based on 8dB room absorption factor.

For exhaust applications add 3dB to the NR level and multiply pressure loss (ΔP) by 1.1.

SIZE	l/s	SUPPLY AIR VOLUME																		
		10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	225	250	275	300
160	Throw(m)		0.4	0.6	1.0	1.3														
	NR		-	26	35	41														
	ΔP (Pa)		12	26	31	69														
200	Throw(m)		0.4	0.6	0.9	1.3	1.5	1.8												
	NR		-	-	22	29	34	38												
	ΔP (Pa)		5	11	19	28	38	50												
250	Throw(m)				0.6	1.0	1.3	1.4	1.6	1.8	2.1	2.3								
	NR				-	-	20	23	26	30	33	39								
	ΔP (Pa)				6	10	14	19	24	30	36	50								
315	Throw(m)					0.8	1.0	1.2	1.3	1.4	1.6	1.9	2.2	2.4						
	NR					-	-	-	20	24	27	32	37	40						
	ΔP (Pa)					6	9	11	14	17	21	31	41	51						
400	Throw(m)										1.0	1.2	1.3	1.7	2.2	2.4	2.6	3.0	3.4	3.6
	NR										-	-	-	-	20	24	27	30	32	35
	ΔP (Pa)										4	6	8	10	14	16	21	25	30	36