



REGISTERS & DIFFUSERS GUIDE





Making a difference in our local communities

T  **GETHER.**

A portion of every 33Brands purchase is donated to our community Foodbanks, local children's charities, and neighborhood Habitat for Humanity ReStores through in-kind donations.

Learn more at breeze33.com/giving-back/





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BBD

FEATURES

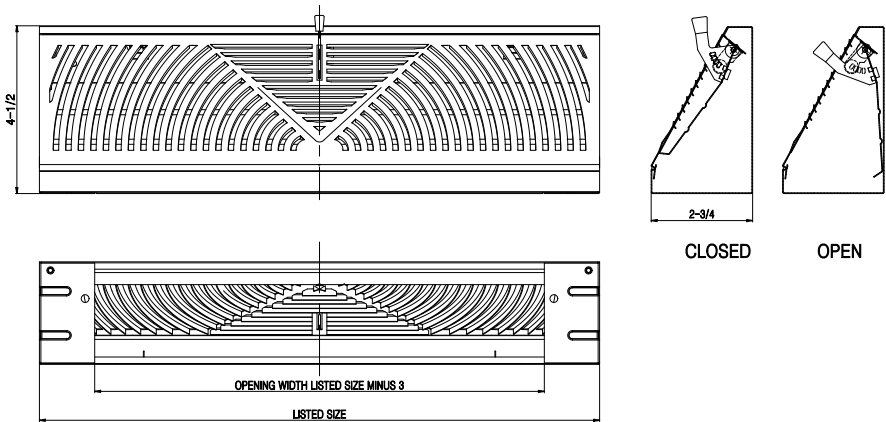
- Blankets wall area
- Steel construction
- Available in multiple sizes and finishes
- Bottom opening
- Supply register with damper
- 3-Way air diffusion pattern

FINISHES

White (WH)

Brown (BR)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	Opening Width
WH	15"	BZ33BBD15-G2-WH	.3513741	12"
WH	18"	BZ33BBD18-G2-WH	.3513738	15"
WH	24"	BZ33BBD24-G2-WH	.3513753	21"
BR	15"	BZ33BBD15-G2-BR	.3513743	12"
BR	18"	BZ33BBD18-G2-BR	.3516136	15"

SCAN QR TO
LEARN MORE
ABOUT BBD

BBRAG

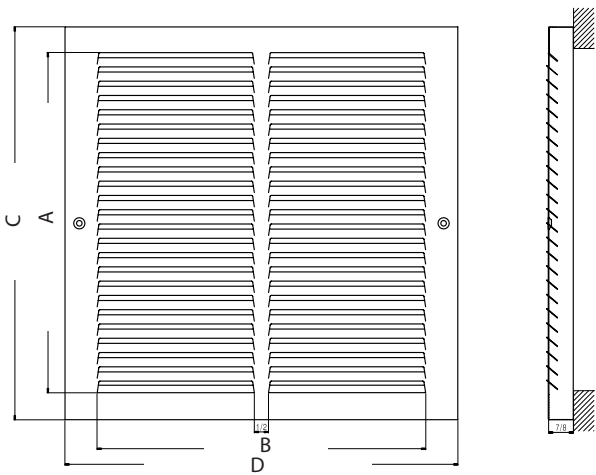
FEATURES

- 1/3” or 1/2” spaced fins set
- Exceptional free area
- 1-Way
- Constructed with steel

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



BBRAG Size Options (In.)			
Height (A)	Width (B)		
	6	8	10
10	●		
12	●		
14	●	●	
16		●	
18			
24	●	●	
30	●	●	●

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Overall		Fin
				C	D	
WH	10" x 6"	BZ33BBRAG1006-G2-13WH	.3513622	11-3/4"	7-3/4"	1/3"
WH	12" x 6"	BZ33BBRAG1206-G2-13WH	.3513623	13-3/4"	7-3/4"	1/3"
WH	14" x 6"	BZ33BBRAG1406-G2-13WH	.3513617	15-3/4"	7-3/4"	1/3"
WH	14" x 6"	BZ33BBRAG1406-G2-12WH	.3513690	15-3/4"	7-3/4"	1/2"
WH	14" x 8"	BZ33BBRAG1408-G2-13WH	.3513621	15-3/4"	9-3/4"	1/3"
WH	16" x 8"	BZ33BBRAG1608-G2-13WH	.3516228	17-3/4"	9-3/4"	1/3"
WH	24" x 6"	BZ33BBRAG2406-G2-13WH	.3516230	25-3/4"	7-3/4"	1/3"
WH	24" x 8"	BZ33BBRAG2408-G2-13WH	.3521410	25-3/4"	9-3/4"	1/3"
WH	30" x 6"	BZ33BBRAG3006-G2-12WH	.3548162	31-3/4"	7-3/4"	1/2"
WH	30" x 6"	BZ33BBRAG3006-G2-13WH	.3520216	31-3/4"	7-3/4"	1/3"
WH	30" x 8"	BZ33BBRAG3008-G2-13WH	.3513619	31-3/4"	9-3/4"	1/3"
WH	30" x 10"	BZ33BBRAG3010-G2-13WH	.3513694	31-3/4"	11-3/4"	1/3"



BBRAG

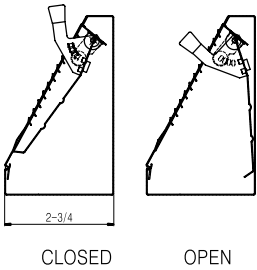
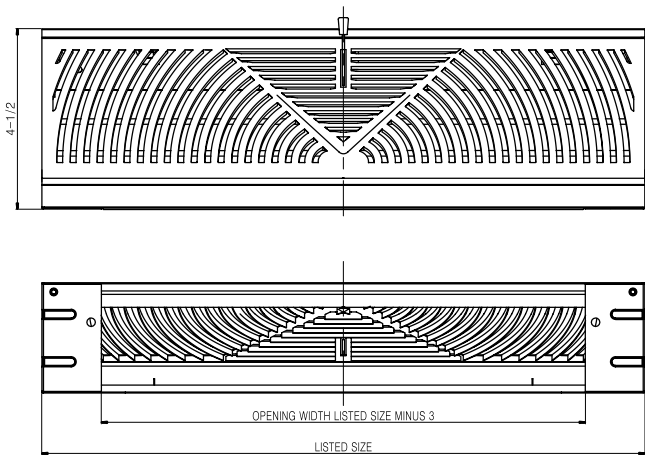
FEATURES

- Steel construction
- Removable faceplate for easy installation
- 3-Way

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	Free Area (Sq. In.)	Opening Width
WH	18"	BZ33BBRAG18-G2-WH	.3513715	38	15"

SCAN QR TO
LEARN MORE
ABOUT BBRAG





FR

FEATURES

- Multi-angle fin setting
- Foot operated dial control
- Opposed blade damper included
- Durable steel floor register with welded construction, dual-coated finish, and a stamped faceplate

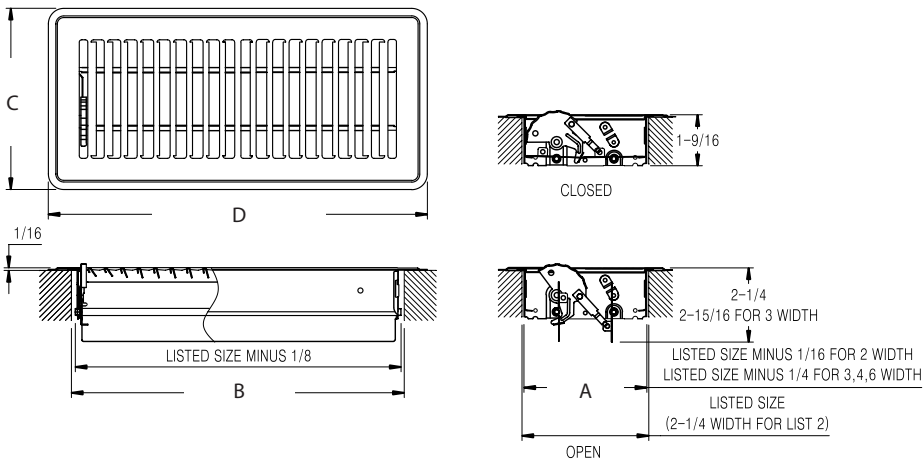
FINISHES

White (WH)

Brown (BR)

Silver (S)

Image and dimensional drawing are used for representation only.



FR Size Options (In.)				
Height (A)	Width (B)			
	8	10	12	14
2				
4				
6				

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
WH	2" x 10"	BZ33FR0210-G2-WH	.3513727	14	3-1/2"	11-1/2"
WH	2" x 12"	BZ33FR0212-G2-WH	.3513720	17	3-1/2"	13-1/2"
WH	2" x 14"	BZ33FR0214-G2-WH	.3513731	20	3-1/2"	15-1/2"
WH	4" x 10"	BZ33FR0410-G2-WH	.3513721	27	5-1/2"	11-1/2"
WH	4" x 12"	BZ33FR0412-G2-WH	.3513728	32	5-1/2"	13-1/2"
WH	4" x 14"	BZ33FR0414-G2-WH	.3521429	37	5-1/2"	15-1/2"
WH	6" x 10"	BZ33FR0610-G2-WH	.3521426	38	7-1/2"	11-1/2"
WH	6" x 12"	BZ33FR0612-G2-WH	.3513735	45	7-1/2"	13-1/2"
BR	2" x 10"	BZ33FR0210-G2-BR	.3516235	14	3-1/2"	11-1/2"
BR	2" x 12"	BZ33FR0212-G2-BR	.3513730	17	3-1/2"	13-1/2"
BR	2" x 14"	BZ33FR0214-G2-BR	.3516236	20	3-1/2"	15-1/2"
BR	4" x 8"	BZ33FR0408-G2-BR	.3513722	22	5-1/2"	9-1/2"
BR	4" x 10"	BZ33FR0410-G2-BR	.3513723	27	5-1/2"	11-1/2"
BR	4" x 12"	BZ33FR0412-G2-BR	.3513725	32	5-1/2"	13-1/2"
BR	4" x 14"	BZ33FR0414-G2-BR	.3521428	37	5-1/2"	15-1/2"
BR	6" x 10"	BZ33FR0610-G2-BR	.3513732	38	7-1/2"	11-1/2"
BR	6" x 12"	BZ33FR0612-G2-BR	.3513733	45	7-1/2"	13-1/2"
BR	6" x 14"	BZ33FR0614-G2-BR	.3513734	52	7-1/2"	15-1/2"
S	4" x 10"	BZ33FR0410-G2-S	.3513726	27	5-1/2"	11-1/2"
S	4" x 12"	BZ33FR0412-G2-S	.3516096	32	5-1/2"	13-1/2"
S	4" x 14"	BZ33FR0414-G2-S	.3513724	37	5-1/2"	15-1/2"

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ABOUT FR





HDFR

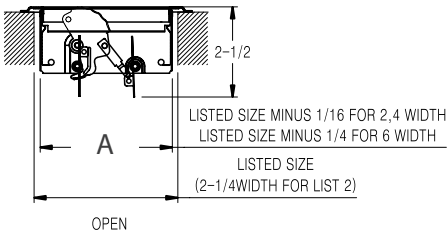
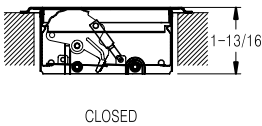
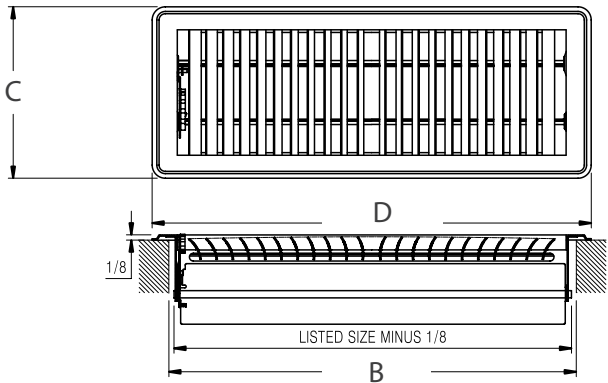
FEATURES

- Multi-angle fin setting
- Foot operated dial control
- Opposed blade damper included
- Heavy guage steel construction
- Dual-coating
- Right, individually welded diffusion vanes
- Can be used in high traffic areas

FINISHES

Brown (BR)

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SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
BR	4" x 10"	BZ33HDFR0410-G2-BR	.3520233	27	5-1/8"	11-1/8"
BR	4" x 12"	BZ33HDFR0412-G2-BR	.3513716	32	5-1/8"	13-1/8"

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ABOUT HDFR





FRWSH

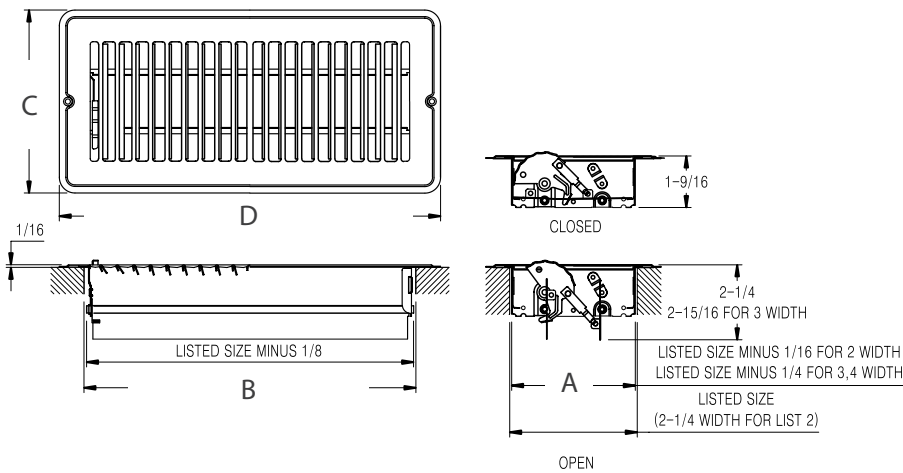
FEATURES

- Multi-angle fin setting
- Foot operated dial control
- Opposed blade damper included
- Durable steel floor register with welded construction, dual-coated finish, and a stamped faceplate

FINISHES

 Brown (BR)

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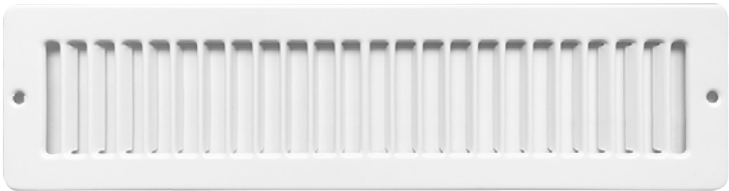


SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
BR	2" x 12"	BZ33FRWSH0212-G2-BR	.3521419	17	3-1/2"	13-1/2"

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ABOUT FRWSH





TSG

FEATURES

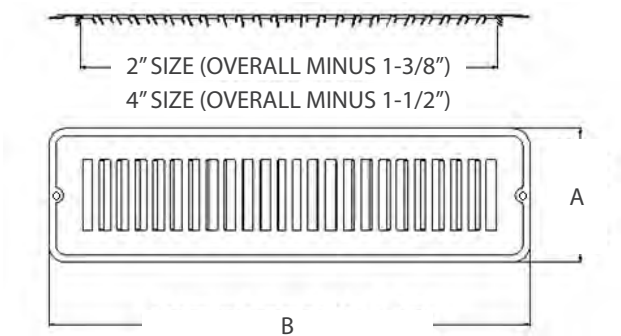
- Constructed from high quality steel
- Slim design allows airflow in tight spaces
- Easy installation
- Available in multiple sizes and finishes

FINISHES

White (WH)

Brown (BR)

Image and dimensional drawing are used for representation only.



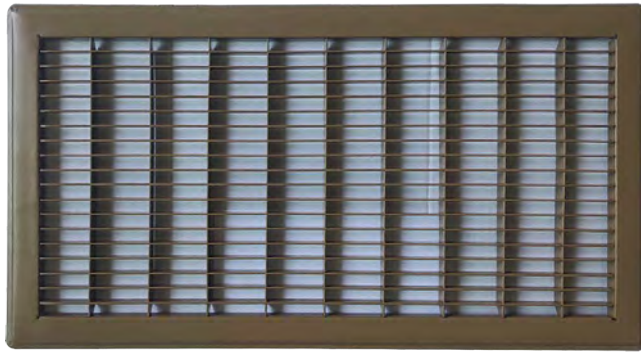
TSG Size Options (In.)			
Height (A)	Width (B)		
	10	12	14
2			
4			

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
WH	2" x 10"	BZ33TSG0210-G2-WH	.3516356	14	3-3/8"	11-3/8"
WH	2" x 12"	BZ33TSG0212-G2-WH	.3513747	17	3-3/8"	13-3/8"
WH	2" x 14"	BZ33TSG0214-G2-WH	.3521398	20	3-3/8"	15-3/8"
WH	4" x 12"	BZ33TSG0412-G2-WH	.3513749	32	5-1/2"	13-1/2"
BR	2" x 10"	BZ33TSG0210-G2-BR	.3513748	14	3-3/8"	11-3/8"
BR	2" x 12"	BZ33TSG0212-G2-BR	.3516357	17	3-3/8"	13-3/8"
BR	2" x 14"	BZ33TSG0214-G2-BR	.3513751	20	3-3/8"	15-3/8"
BR	4" x 12"	BZ33TSG0412-G2-BR	.3513750	32	5-1/2"	13-1/2"

SCAN QR TO
LEARN MORE
ABOUT TSG





FRAG

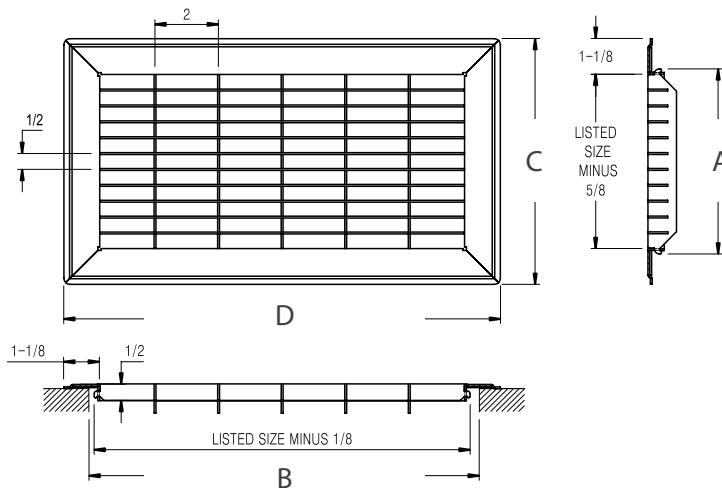
FEATURES

- Provides firm, smooth surface
- Extremely rigid
- Free area averages over 75%
- 1-Way

FINISHES

 Brown (BR)

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FRAG Size Options (In.)							
Height (A)	Width (B)						
	10	12	14	16	20	24	30
4	●	●	●			●	●
6	●	●	●		●	●	●
8	●	●	●	●	●	●	●
10	●	●	●		●	●	●
12		●	●		●	●	●
14			●	●		●	●
16							●
20							●
24							●

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
BR	4" x 10"	BZ33FRAG0410-G2-BR	.3516238	29	5-3/4"	11-3/4"
BR	4" x 12"	BZ33FRAG0412-G2-BR	.3513633	35	5-3/4"	13-3/4"
BR	4" x 14"	BZ33FRAG0414-G2-BR	.3513632	41	5-3/4"	15-3/4"
BR	4" x 24"	BZ33FRAG0424-G2-BR	.3513636	71	5-3/4"	25-3/4"
BR	4" x 30"	BZ33FRAG0430-G2-BR	.3513635	90	5-3/4"	31-3/4"
BR	6" x 10"	BZ33FRAG0610-G2-BR	.3516278	45	7-3/4"	11-3/4"
BR	6" x 12"	BZ33FRAG0612-G2-BR	.3513628	55	7-3/4"	13-3/4"
BR	6" x 14"	BZ33FRAG0614-G2-BR	.3513630	64	7-3/4"	15-3/4"
BR	6" x 20"	BZ33FRAG0620-G2-BR	.3516279	92	7-3/4"	21-3/4"
BR	6" x 24"	BZ33FRAG0624-G2-BR	.3516280	111	7-3/4"	25-3/4"

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
BR	6" x 30"	BZ33FRAG0630-G2-BR	.3513631	140	7-3/4"	31-3/4"
BR	8" x 10"	BZ33FRAG0810-G2-BR	.3520229	59	9-3/4"	11-3/4"
BR	8" x 12"	BZ33FRAG0812-G2-BR	.3516348	72	9-3/4"	13-3/4"
BR	8" x 14"	BZ33FRAG0814-G2-BR	.3516349	87	9-3/4"	15-3/4"
BR	8" x 16"	BZ33FRAG0816-G2-BR	.3516351	100	9-3/4"	17-3/4"
BR	8" x 20"	BZ33FRAG0820-G2-BR	.3513634	126	9-3/4"	21-3/4"
BR	8" x 24"	BZ33FRAG0824-G2-BR	.3513646	151	9-3/4"	25-3/4"
BR	8" x 30"	BZ33FRAG0830-G2-BR	.3513645	190	9-3/4"	31-3/4"
BR	10" x 10"	BZ33FRAG1010-G2-BR	.3513699	76	11-3/4"	11-3/4"
BR	10" x 12"	BZ33FRAG1012-G2-BR	.3513637	92	11-3/4"	13-3/4"
BR	10" x 14"	BZ33FRAG1014-G2-BR	.3521391	110	11-3/4"	15-3/4"
BR	10" x 20"	BZ33FRAG1020-G2-BR	.3513662	159	11-3/4"	21-3/4"
BR	10" x 24"	BZ33FRAG1024-G2-BR	.3520231	191	11-3/4"	25-3/4"
BR	10" x 30"	BZ33FRAG1030-G2-BR	.3513663	240	11-3/4"	31-3/4"
BR	12" x 12"	BZ33FRAG1212-G2-BR	.3513638	113	13-3/4"	13-3/4"
BR	12" x 14"	BZ33FRAG1214-G2-BR	.3520234	131	13-3/4"	15-3/4"
BR	12" x 20"	BZ33FRAG1220-G2-BR	.3521287	191	13-3/4"	21-3/4"
BR	12" x 24"	BZ33FRAG1224-G2-BR	.3513661	230	13-3/4"	25-3/4"
BR	12" x 30"	BZ33FRAG1230-G2-BR	.3516352	289	13-3/4"	31-3/4"
BR	14" x 14"	BZ33FRAG1414-G2-BR	.3513666	156	15-3/4"	15-3/4"
BR	14" x 16"	BZ33FRAG1416-G2-BR	.3513664	179	15-3/4"	17-3/4"
BR	14" x 24"	BZ33FRAG1424-G2-BR	.3521399	271	15-3/4"	25-3/4"
BR	14" x 30"	BZ33FRAG1430-G2-BR	.3516560	340	15-3/4"	31-3/4"
BR	16" x 30"	BZ33FRAG1630-G2-BR	.3513698	390	17-3/4"	31-3/4"
BR	20" x 30"	BZ33FRAG2030-G2-BR	.3513667	489	21-3/4"	31-3/4"
BR	24" x 30"	BZ33FRAG2430-G2-BR	.3513665	592	25-3/4"	31-3/4"

SCAN QR TO
LEARN MORE
ABOUT FRAG



RCDP

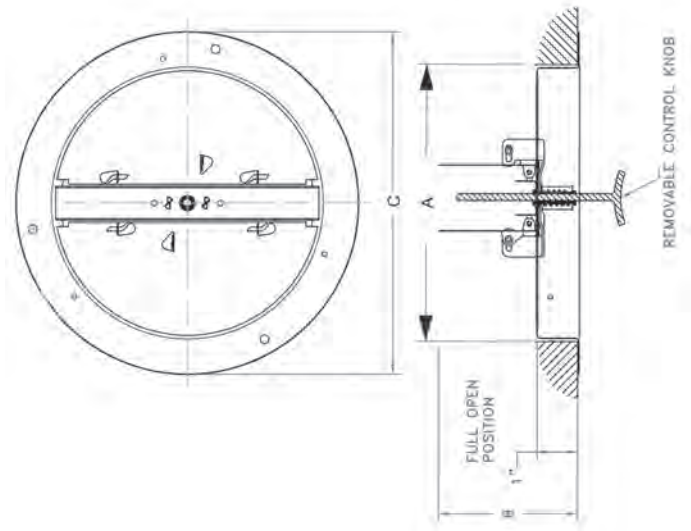
FEATURES

- 24 GA all-steel construction
- Controls air volume evenly
- Removable knob operator for adjustment from closed to fully open
- Available in multiple sizes
- Complete assembly
- Compatible with RCDF Series Round Ceiling Diffuser

FINISHES

 Brown (BR)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B	C
BR	6"	BZ33RCDP06-G2-BR	.3513708	3-7/16"	7-1/2"
BR	8"	BZ33RCDP08-G2-BR	.3513707	4-7/16"	9-1/2"
BR	10"	BZ33RCDP10-G2-BR	.3513710	5-7/16"	11-1/2"
BR	12"	BZ33RCDP12-G2-BR	.3513711	6-7/16"	13-1/2"

SCAN QR TO
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ABOUT RCDP





RCDF

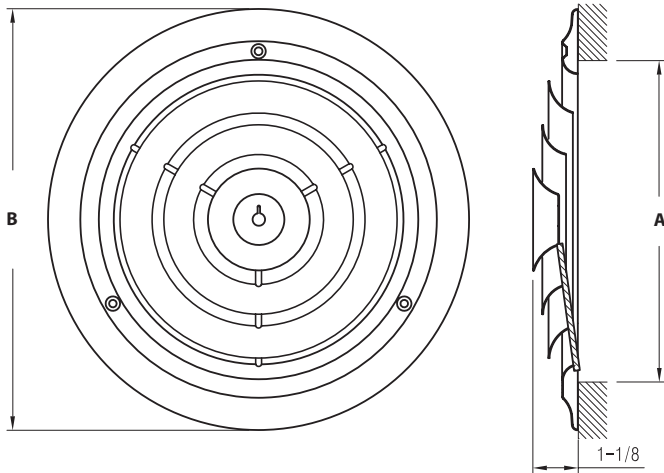
FEATURES

- Step-down diffuser rings deflect air stream 360°
- Available in multiple sizes
- Compatible with RCDP Series Damper Assemblies and DR Series Duct Rings

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B
WH	6"	BZ33RCDF06-G2-WH	.3513712	10"
WH	8"	BZ33RCDF08-G2-WH	.3513709	12"
WH	10"	BZ33RCDF10-G2-WH	.3513714	14"
WH	12"	BZ33RCDF12-G2-WH	.3513713	16"

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ABOUT RCDF





DR

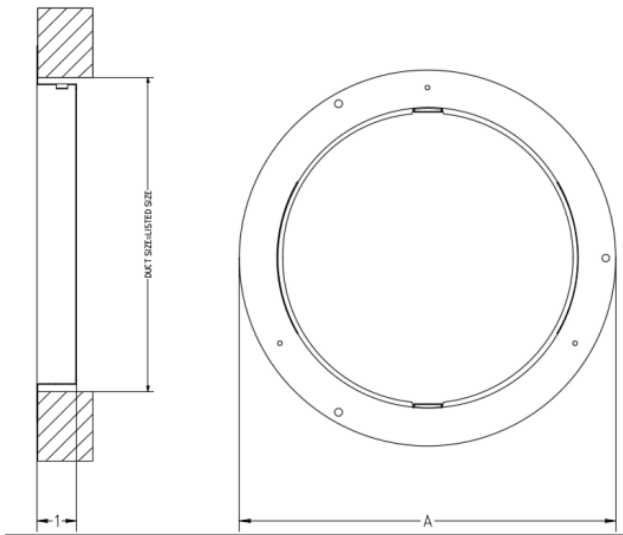
FEATURES

- 24 GA all-steel construction
- For use with BZ33RCDF Series Round Ceiling Diffuser
- Available in different diameters to fit various duct systems
- Easy installation

FINISHES

 Brown (BR)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.
BR	6"	BZ33DR6-G2-BR	.3513745
BR	8"	BZ33DR8-G2-BR	.3521312
BR	10"	BZ33DR10-G2-BR	.3520434
BR	12"	BZ33DR12-G2-BR	.3513746

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ABOUT DR





WRAG

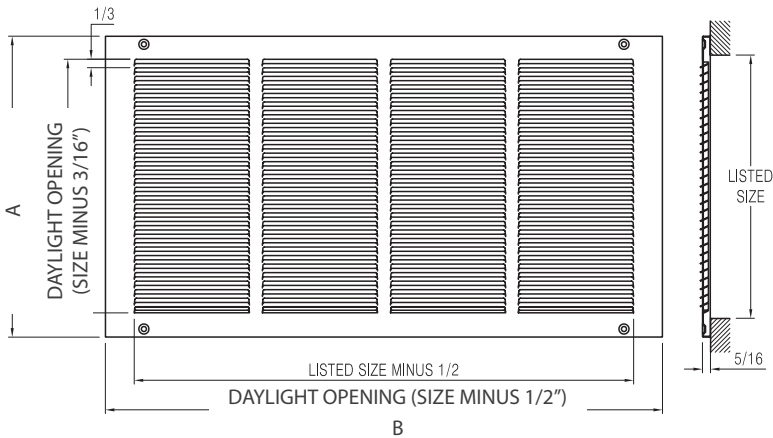
FEATURES

- 1/3" or 1/2" spaced fins set
- Exceptional free area
- 2-Way
- Stamped steel with dual-coated finish

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



WRAG Size Options (In.)											
Height (A)	Width (B)										
	4	6	8	10	12	14	16	18	20	24	30
6		●				●					
8		●	●								
10	●	●	●	●							
12	●	●	●	●	●					●	
14	●	●	●	●	●	●			●	●	
16			●	●	●	●	●		●		
18						●	●	●			
20		●	●	●	●	●	●		●		
24	●	●	●	●	●	●	●	●	●	●	●
30	●	●	●	●	●	●	●		●	●	●
36		●	●								

SCAN QR TO
LEARN MORE
ABOUT WRAG



SPECIFICATIONS

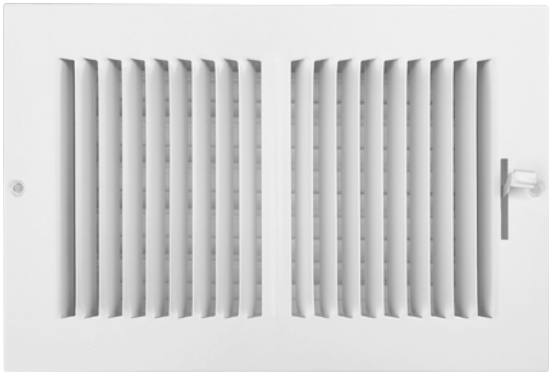
Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall		Fin
					C	D	
WH	6" x 6"	BZ33WRAG0606-G2-13WH	.3513589	23	7-3/4"	7-3/4"	1/3"
WH	6" x 14"	BZ33WRAG0614-G2-13WH	.3513594	55	7-3/4"	15-3/4"	1/3"
WH	8" x 6"	BZ33WRAG0806-G2-12WH	.3513639	30	9-3/4"	7-3/4"	1/2"
WH	8" x 8"	BZ33WRAG0808-G2-13WH	.3513587	40	9-3/4"	9-3/4"	1/3"
WH	10" x 4"	BZ33WRAG1004-G2-13WH	.3513593	24	11-3/4"	5-3/4"	1/3"
WH	10" x 6"	BZ33WRAG1006-G2-13WH	.3513595	38	11-3/4"	7-3/4"	1/3"
WH	10" x 6"	BZ33WRAG1006-G2-12WH	.3577727	38	11-3/4"	7-3/4"	1/2"
WH	10" x 8"	BZ33WRAG1008-G2-13WH	.3516360	52	11-3/4"	9-3/4"	1/3"
WH	10" x 10"	BZ33WRAG1010-G2-13WH	.3516361	65	11-3/4"	11-3/4"	1/3"
WH	10" x 10"	BZ33WRAG1010-G2-12WH	.3567191	65	11-3/4"	11-3/4"	1/2"
WH	12" x 4"	BZ33WRAG1204-G2-13WH	.3513625	30	13-3/4"	5-3/4"	1/3"
WH	12" x 6"	BZ33WRAG1206-G2-13WH	.3513596	46	13-3/4"	7-3/4"	1/3"
WH	12" x 6"	BZ33WRAG1206-G2-12WH	.3516362	46	13-3/4"	7-3/4"	1/2"
WH	12" x 8"	BZ33WRAG1208-G2-13WH	.3516363	62	13-3/4"	9-3/4"	1/3"
WH	12" x 8"	BZ33WRAG1208-G2-12WH	.3567193	62	13-3/4"	9-3/4"	1/2"
WH	12" x 10"	BZ33WRAG1210-G2-13WH	.3513614	77	13-3/4"	11-3/4"	1/3"
WH	12" x 12"	BZ33WRAG1212-G2-13WH	.3513601	97	13-3/4"	13-3/4"	1/3"
WH	12" x 12"	BZ33WRAG1212-G2-12WH	.3513602	97	13-3/4"	13-3/4"	1/2"
WH	12" x 24"	BZ33WRAG1224-G2-12WH	.3513659	194	13-3/4"	25-3/4"	1/2"
WH	14" x 4"	BZ33WRAG1404-G2-13WH	.3521401	35	15-3/4"	5-3/4"	1/3"
WH	14" x 6"	BZ33WRAG1406-G2-13WH	.3513752	55	15-3/4"	7-3/4"	1/3"
WH	14" x 6"	BZ33WRAG1406-G2-12WH	.3516364	55	15-3/4"	7-3/4"	1/2"
WH	14" x 8"	BZ33WRAG1408-G2-13WH	.3513597	75	15-3/4"	9-3/4"	1/3"
WH	14" x 8"	BZ33WRAG1408-G2-12WH	.3516365	75	15-3/4"	9-3/4"	1/2"
WH	14" x 10"	BZ33WRAG1410-G2-13WH	.3513605	91	15-3/4"	11-3/4"	1/3"
WH	14" x 12"	BZ33WRAG1412-13WH	.3466181	115	15-3/4"	13-3/4"	1/3"
WH	14" x 12"	BZ33WRAG1412-G2-13WH	.3521397	115	15-3/4"	13-3/4"	1/3"
WH	14" x 14"	BZ33WRAG1414-G2-13WH	.3513600	134	15-3/4"	15-3/4"	1/3"
WH	14" x 14"	BZ33WRAG1414-G2-12WH	.3516366	134	15-3/4"	15-3/4"	1/2"
WH	14" x 20"	BZ33WRAG1420-G2-13WH	.3521424	177	15-3/4"	21-3/4"	1/3"

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall		Fin
					C	D	
WH	14" x 20"	BZ33WRAG1420-G2-12WH	.3513644	177	15-3/4"	21-3/4"	1/2"
WH	14" x 24"	BZ33WRAG1424-G2-13WH	.3521403	228	15-3/4"	25-3/4"	1/3"
WH	16" x 8"	BZ33WRAG1608-G2-13WH	.3513624	79	17-3/4"	9-3/4"	1/3"
WH	16" x 8"	BZ33WRAG1608-G2-12WH	.3513640	79	17-3/4"	9-3/4"	1/2"
WH	16" x 10"	BZ33WRAG1610-G2-12WH	.3513655	99	17-3/4"	11-3/4"	1/2"
WH	16" x 12"	BZ33WRAG1612-G2-13WH	.3513654	127	17-3/4"	13-3/4"	1/3"
WH	16" x 14"	BZ33WRAG1614-G2-13WH	.3513606	138	17-3/4"	15-3/4"	1/3"
WH	16" x 16"	BZ33WRAG1616-G2-13WH	.3521420	166	17-3/4"	17-3/4"	1/3"
WH	16" x 16"	BZ33WRAG1616-G2-12WH	.3521425	166	17-3/4"	17-3/4"	1/2"
WH	16" x 20"	BZ33WRAG1620-G2-13WH	.3520240	209	17-3/4"	21-3/4"	1/3"
WH	16" x 20"	BZ33WRAG1620-G2-12WH	.3521427	209	17-3/4"	21-3/4"	1/2"
WH	18" x 14"	BZ33WRAG1814-G2-12WH	.3521304	151	19-3/4"	15-3/4"	1/2"
WH	18" x 16"	BZ33WRAG1816-G2-13WH	.3521296	176	19-3/4"	17-3/4"	1/3"
WH	18" x 18"	BZ33WRAG1818-G2-13WH	.3513611	209	19-3/4"	19-3/4"	1/3"
WH	18" x 18"	BZ33WRAG1818-G2-12WH	.3521422	209	19-3/4"	19-3/4"	1/2"
WH	20" x 6"	BZ33WRAG2006-G2-13WH	.3521393	68	21-3/4"	7-3/4"	1/3"
WH	20" x 8"	BZ33WRAG2008-G2-13WH	.3513590	98	21-3/4"	9-3/4"	1/3"
WH	20" x 10"	BZ33WRAG2010-G2-13WH	.3513604	123	21-3/4"	11-3/4"	1/3"
WH	20" x 10"	BZ33WRAG2010-G2-12WH	.3513650	123	21-3/4"	11-3/4"	1/2"
WH	20" x 12"	BZ33WRAG2012-G2-13WH	.3513612	151	21-3/4"	13-3/4"	1/3"
WH	20" x 14"	BZ33WRAG2014-G2-13WH	.3513647	194	21-3/4"	15-3/4"	1/3"
WH	20" x 14"	BZ33WRAG2014-G2-12WH	.3513656	194	21-3/4"	15-3/4"	1/2"
WH	20" x 16"	BZ33WRAG2016-G2-13WH	.3513649	209	21-3/4"	17-3/4"	1/3"
WH	20" x 16"	BZ33WRAG2016-G2-12WH	.3516557	209	21-3/4"	17-3/4"	1/2"
WH	20" x 20"	BZ33WRAG2020-G2-13WH	.3513626	269	21-3/4"	21-3/4"	1/3"
WH	20" x 20"	BZ33WRAG2020-G2-12WH	.3513608	269	21-3/4"	21-3/4"	1/2"
WH	24" x 4"	BZ33WRAG2404-G2-13WH	.3513591	59	21-3/4"	5-3/4"	1/3"
WH	24" x 6"	BZ33WRAG2406-G2-13WH	.3513592	93	25-3/4"	7-3/4"	1/3"
WH	24" x 6"	BZ33WRAG2406-G2-12WH	.3516561	93	25-3/4"	7-3/4"	1/2"

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall		Fin
					C	D	
WH	24" x 8"	BZ33WRAG2408-G2-13WH	.3517048	126	25-3/4"	9-3/4"	1/3"
WH	24" x 8"	BZ33WRAG2408-G2-12WH	.3516367	126	25-3/4"	9-3/4"	1/2"
WH	24" x 10"	BZ33WRAG2410-G2-13WH	.3517049	160	25-3/4"	11-3/4"	1/3"
WH	24" x 10"	BZ33WRAG2410-G2-12WH	.3521295	160	25-3/4"	11-3/4"	1/2"
WH	24" x 12"	BZ33WRAG2412-G2-13WH	.3513613	194	25-3/4"	13-3/4"	1/3"
WH	24" x 12"	BZ33WRAG2412-G2-12WH	.3516558	194	25-3/4"	13-3/4"	1/2"
WH	24" x 14"	BZ33WRAG2414-G2-13WH	.3513610	228	25-3/4"	15-3/4"	1/3"
WH	24" x 16"	BZ33WRAG2416-G2-13WH	.3513607	259	25-3/4"	17-3/4"	1/3"
WH	24" x 16"	BZ33WRAG2416-G2-12WH	.3513609	259	25-3/4"	17-3/4"	1/2"
WH	24" x 18"	BZ33WRAG2418-G2-13WH	.3513653	260	25-3/4"	19-3/4"	1/3"
WH	24" x 20"	BZ33WRAG2420-G2-13WH	.3513657	285	25-3/4"	21-3/4"	1/3"
WH	24" x 24"	BZ33WRAG2424-G2-13WH	.3513627	396	25-3/4"	25-3/4"	1/3"
WH	24" x 24"	BZ33WRAG2424-G2-12WH	.3520237	396	25-3/4"	25-3/4"	1/2"
WH	24" x 30"	BZ33WRAG2430-G2-13WH	.3521306	430	25-3/4"	31-3/4"	1/3"
WH	30" x 4"	BZ33WRAG3004-G2-13WH	.3513641	108	31-3/4"	5-3/4"	1/3"
WH	30" x 6"	BZ33WRAG3006-G2-13WH	.3513598	116	31-3/4"	7-3/4"	1/3"
WH	30" x 6"	BZ33WRAG3006-G2-12WH	.3513588	116	31-3/4"	7-3/4"	1/2"
WH	30" x 8"	BZ33WRAG3008-G2-13WH	.3513599	158	31-3/4"	9-3/4"	1/3"
WH	30" x 10"	BZ33WRAG3010-G2-13WH	.3513603	200	31-3/4"	11-3/4"	1/3"
WH	30" x 10"	BZ33WRAG3010-G2-12WH	.3516368	200	31-3/4"	11-3/4"	1/2"
WH	30" x 12"	BZ33WRAG3012-G2-13WH	.3516369	242	31-3/4"	13-3/4"	1/3"
WH	30" x 12"	BZ33WRAG3012-G2-12WH	.3513660	242	31-3/4"	13-3/4"	1/2"
WH	30" x 14"	BZ33WRAG3014-G2-13WH	.3513651	284	31-3/4"	15-3/4"	1/3"
WH	30" x 16"	BZ33WRAG3016-G2-13WH	.3513643	316	31-3/4"	17-3/4"	1/3"
WH	30" x 20"	BZ33WRAG3020-G2-13WH	.3513648	400	31-3/4"	21-3/4"	1/3"
WH	30" x 24"	BZ33WRAG3024-G2-13WH	.3513652	430	31-3/4"	25-3/4"	1/3"
WH	30" x 30"	BZ33WRAG3030-G2-13WH	.3513658	621	31-3/4"	31-3/4"	1/3"
WH	36" x 6"	BZ33WRAG3606-G2-13WH	.3521308	160	37-3/4"	7-3/4"	1/3"
WH	36" x 8"	BZ33WRAG3608-G2-13WH	.3513642	182	37-3/4"	9-3/4"	1/3"



WCR

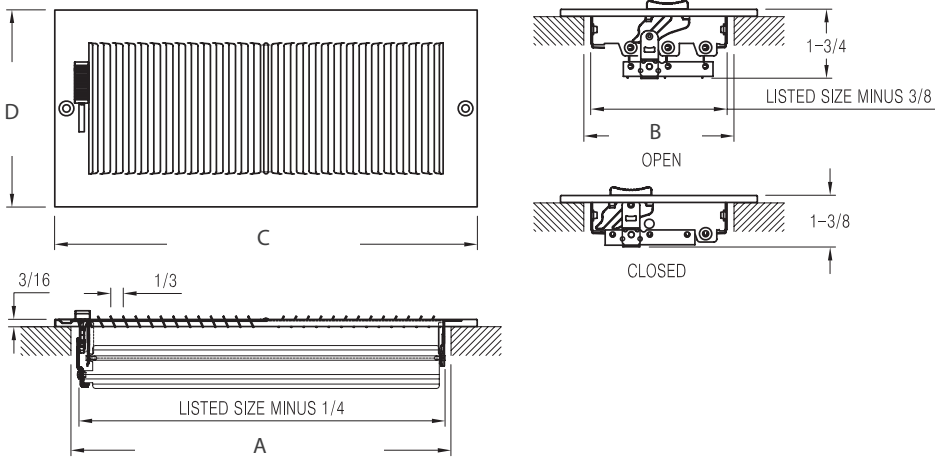
FEATURES

- 1/3" or 1/2" Spaced fins set
- Exceptional free area
- 2-Way
- Stamped steel with dual-coated finish

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



WCR Size Options (In.)					
Height (A)	Width (B)				
	4	6	8	10	12
6		●			
8	●	●	●		
10	●	●	●	●	
12	●	●	●	●	●
14	●	●	●	●	
16		●	●		

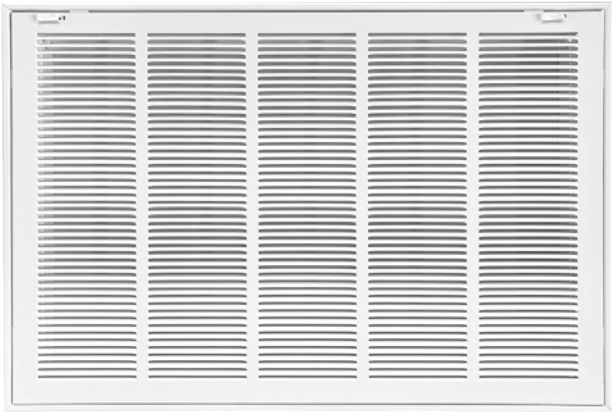
SCAN QR TO
LEARN MORE
ABOUT BBD



SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Overall		Fin
				C	D	
WH	6" x 6"	BZ33WCR0606-G2-13WH	.3513580	7-1/4"	7-1/4"	1/3"
WH	8" x 4"	BZ33WCR0804-G2-13WH	.3521417	9-1/4"	5-1/4"	1/3"
WH	8" x 6"	BZ33WCR0806-G2-13WH	.3516358	9-1/4"	7-1/4"	1/3"
WH	8" x 8"	BZ33WCR0808-G2-13WH	.3521405	9-1/4"	9-1/4"	1/3"
WH	10" x 4"	BZ33WCR1004-G2-13WH	.3513687	11-1/4"	5-1/4"	1/3"
WH	10" x 4"	BZ33WCR1004-G2-12WH	.3513615	11-1/4"	5-1/4"	1/2"
WH	10" x 4"	BZ33WCR1004-G2-3W12WH ¹	.3513692	11-1/4"	5-1/4"	1/2"
WH ²	10" x 4"	BZ33WCR1004-G2-WHA ³	.3513717	11-1/4"	5-1/4"	—
WH	10" x 6"	BZ33WCR1006-G2-13WH	.3513686	11-1/4"	7-1/4"	1/3"
WH	10" x 6"	BZ33WCR1006-G2-12WH	.3513618	11-1/4"	7-1/4"	1/2"
WH	10" x 8"	BZ33WCR1008-G2-13WH	.3513581	11-1/4"	9-1/4"	1/3"
WH	10" x 10"	BZ33WCR1010-G2-13WH	.3521300	11-1/4"	11-1/4"	1/3"
WH	12" x 4"	BZ33WCR1204-G2-13WH	.3516359	13-1/4"	5-1/4"	1/3"
WH	12" x 4"	BZ33WCR1204-G2-12WH	.3513616	13-1/4"	5-1/4"	1/2"
WH	12" x 6"	BZ33WCR1206-G2-13WH	.3513688	13-1/4"	7-1/4"	1/3"
WH	12" x 6"	BZ33WCR1206-G2-12WH	.3513620	13-1/4"	7-1/4"	1/2"
WH	12" x 8"	BZ33WCR1208-G2-13WH	.3513689	13-1/4"	9-1/4"	1/3"
WH	12" x 8"	BZ33WCR1208-G2-12WH	.3513706	13-1/4"	9-1/4"	1/2"
WH	12" x 10"	BZ33WCR1210-G2-13WH	.3521311	13-1/4"	11-1/4"	1/3"
WH	12" x 12"	BZ33WCR1212-G2-13WH	.3513576	13-1/4"	13-1/4"	1/3"
WH	14" x 4"	BZ33WCR1404-G2-13WH	.3513575	15-1/4"	5-1/4"	1/3"
WH	14" x 4"	BZ33WCR1404-G2-12WH	.3513693	15-1/4"	5-1/4"	1/2"
WH	14" x 6"	BZ33WCR1406-G2-13WH	.3513577	15-1/4"	7-1/4"	1/3"
WH	14" x 8"	BZ33WCR1408-G2-13WH	.3513578	15-1/4"	9-1/4"	1/3"
WH	14" x 10"	BZ33WCR1410-G2-12WH	.3513695	15-1/4"	11-1/4"	1/2"
WH	16" x 6"	BZ33WCR1606-G2-13WH	.3513691	17-1/4"	7-1/4"	1/3"
WH	16" x 8"	BZ33WCR1608-G2-13WH	.3513579	17-1/4"	9-1/4"	1/3"

¹ 3-Way.² White aluminum finish.³ 2-Way.



RAFG

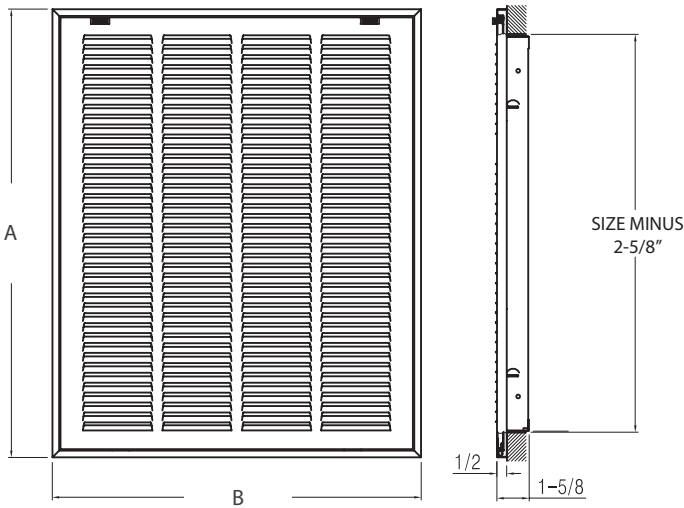
FEATURES

- Designed to make filter replacement simple
- For use with 1" thick air filters
- Available in multiple sizes

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



RAFG Size Options (In.)								
Height (A)	Width (B)							
	12	14	16	18	20	24	25	30
12	●							
14		●			●	●	●	
16			●		●		●	
18				●				
20		●	●		●		●	●
24	●	●				●		
25		●	●		●			

SCAN QR TO
LEARN MORE
ABOUT RAFG



SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Overall		Fin
				C	D	
WH	12" x 12"	BZ33RAFG1212-G2-13WH	.3521309	14-5/8"	14-5/8"	1/3"
WH	12" x 12"	BZ33RAFG1212-G2-12WH	.3567189	14-5/8"	14-5/8"	1/2"
WH	14" x 14"	BZ33RAFG1414-G2-13WH	.3520242	16-5/8"	16-5/8"	1/3"
WH	14" x 14"	BZ33RAFG1414-G2-12WH	.3513678	16-5/8"	16-5/8"	1/2"
WH	14" x 20"	BZ33RAFG1420-G2-13WH	.3513672	16-5/8"	22-5/8"	1/3"
WH	14" x 24"	BZ33RAFG1424-G2-13WH	.3513675	16-5/8"	26-5/8"	1/3"
WH	14" x 25"	BZ33RAFG1425-G2-13WH	.3513679	16-5/8"	27-5/8"	1/3"
WH	16" x 16"	BZ33RAFG1616-G2-13WH	.3513669	18-5/8"	18-5/8"	1/3"
WH	16" x 16"	BZ33RAFG1616-G2-12WH	.3513682	18-5/8"	18-5/8"	1/2"
WH	16" x 20"	BZ33RAFG1620-G2-13WH	.3513681	18-5/8"	22-5/8"	1/3"
WH	16" x 20"	BZ33RAFG1620-G2-12WH	.3569124	18-5/8"	22-5/8"	1/2"
WH	16" x 25"	BZ33RAFG1625-G2-13WH	.3516353	18-5/8"	27-5/8"	1/3"
WH	16" x 25"	BZ33RAFG1625-G2-12WH	.3569125	18-5/8"	27-5/8"	1/2"
WH	18" x 18"	BZ33RAFG1818-G2-13WH	.3521305	20-5/8"	20-5/8"	1/3"
WH	18" x 18"	BZ33RAFG1818-G2-12WH	.3513684	20-5/8"	20-5/8"	1/2"
WH	20" x 14"	BZ33RAFG2014-G2-13WH	.3513671	22-5/8"	16-5/8"	1/3"
WH	20" x 16"	BZ33RAFG2016-G2-13WH	.3513680	22-5/8"	18-5/8"	1/3"
WH	20" x 20"	BZ33RAFG2020-G2-13WH	.3513683	22-5/8"	22-5/8"	1/3"
WH	20" x 20"	BZ33RAFG2020-G2-12WH	.3513685	22-5/8"	22-5/8"	1/2"
WH	20" x 25"	BZ33RAFG2025-G2-13WH	.3513676	22-5/8"	27-5/8"	1/3"
WH	20" x 30"	BZ33RAFG2030-G2-13WH	.3513670	22-5/8"	32-5/8"	1/3"
WH	24" x 12"	BZ33RAFG2412-G2-13WH	.3513673	26-5/8"	14-5/8"	1/3"
WH	24" x 12"	BZ33RAFG2412-G2-12WH	.3513668	26-5/8"	14-5/8"	1/2"
WH	24" x 14"	BZ33RAFG2414-G2-13WH	.3513674	26-5/8"	16-5/8"	1/3"
WH	24" x 24"	BZ33RAFG2424-G2-13WH	.3521415	26-5/8"	26-5/8"	1/3"
WH	25" x 14"	BZ33RAFG2514-G2-13WH	.3521271	26-5/8"	16-5/8"	1/3"
WH	25" x 16"	BZ33RAFG2516-G2-13WH	.3513677	27-5/8"	18-5/8"	1/3"
WH	25" x 20"	BZ33RAFG2520-G2-13WH	.3521303	27-5/8"	22-5/8"	1/3"



VSSR

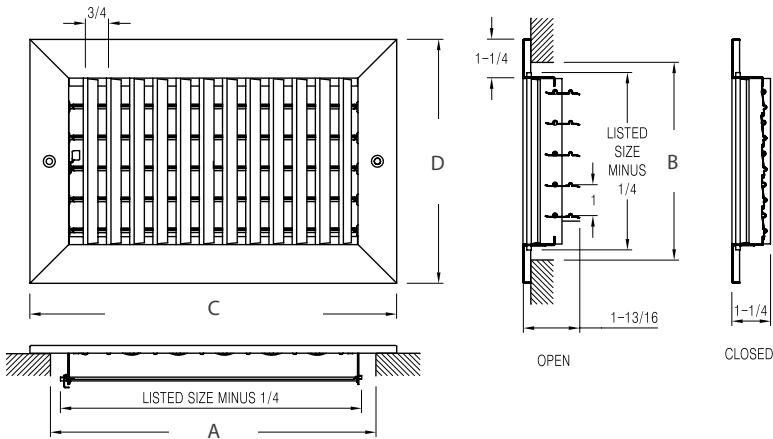
FEATURES

- 1-Way

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



VSSR Size Options (In.)				
Height (A)	Width (B)			
	4	6	8	12
10	●	●		
12	●	●		●
14		●	●	
16			●	

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Overall	
				C	D
WH	10" x 4"	BZ33VSSR1004-G2-WH	.3513697	11-13/16"	5-13/16"
WH	10" x 6"	BZ33VSSR1006-G2-WH	.3513703	11-13/16"	7-13/16"
WH	12" x 4"	BZ33VSSR1204-G2-WH	.3513700	13-13/16"	5-13/16"
WH	12" x 6"	BZ33VSSR1206-G2-WH	.3513701	13-13/16"	7-13/16"
WH	12" x 12"	BZ33VSSR1212-G2-WH	.3513705	13-13/16"	13-13/16"
WH	14" x 6"	BZ33VSSR1406-G2-WH	.3513702	15-13/16"	7-13/16"
WH	14" x 8"	BZ33VSSR1408-G2-WH	.3513704	15-13/16"	9-13/16"
WH	16" x 8"	BZ33VSSR1608-G2-WH	.3513696	17-13/16"	9-13/16"

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ABOUT VSSR





HRAG

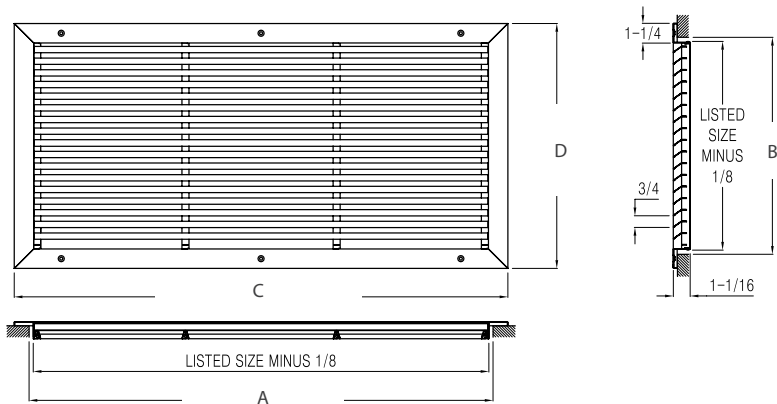
FEATURES

- Horizontal face bars angled at 35°

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



HRAG Size Options (In.)			
Height (A)	Width (B)		
	6	20	24
12			
14			
20			
24			

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Free Area (Sq. In.)	Overall	
					C	D
WH	12" x 6"	BZ33HRAG1206-G2-WH	.3513739	50	13-11/16"	7-11/16"
WH	14" x 6"	BZ33HRAG1406-G2-WH	.3513740	65	15-11/16"	7-11/16"
WH	20" x 20"	BZ33HRAG2020-G2-WH	.3513742	280	21-11/16"	21-11/16"
WH	24" x 24"	BZ33HRAG2424-G2-WH	.3513744	415	25-11/16"	25-11/16"

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ABOUT HRAG





CBR

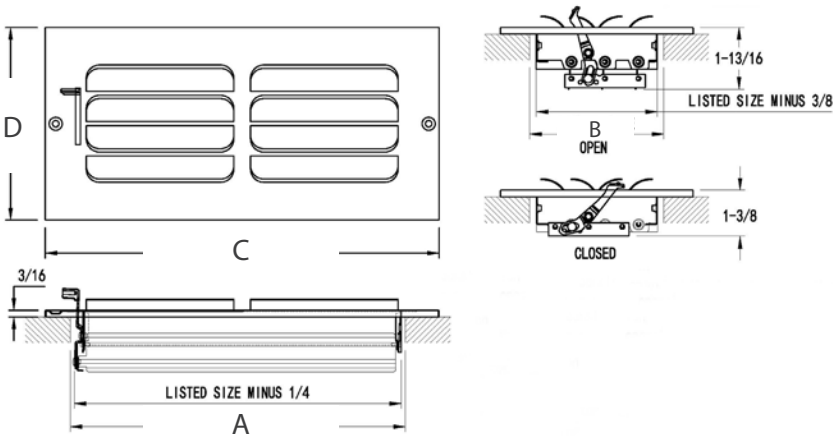
FEATURES

- Metal lever damper operator
- Curved blade
- One-piece stamped face construction
- Two-way air deflection
- Multi-shutter damper
- Dual-coating

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



CBR Size Options (In.)		
Height (A)	Width (B)	
	10	12
4		
6		

SPECIFICATIONS

Finish	Size (A x B)	Model	ID No.	Overall	
				C	D
WH	10" x 4"	BZ33CBR1004-WH	.3567195	11-3/4"	5-3/4"
WH	10" x 6"	BZ33CBR1006-WH	.3567198	11-3/4"	7-3/4"
WH	12" x 6"	BZ33CBR1206-WH	.3567200	13-3/4"	7-3/4"

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ABOUT CBR



UNITARY KITS

Available for Purchase



EACH KIT INCLUDES

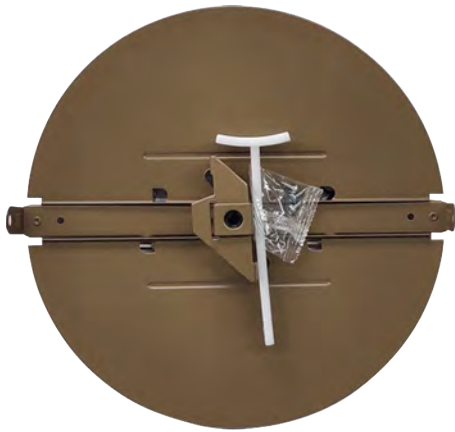
- Furnace
- Condensing Unit
- Cased Coil
- Pad
- A/C Whip
- Disconnect
- Fuses
- Furnace Legs
- Furnace Whip
- Media Air Cleaner with Filter
- Thermostat



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BFD

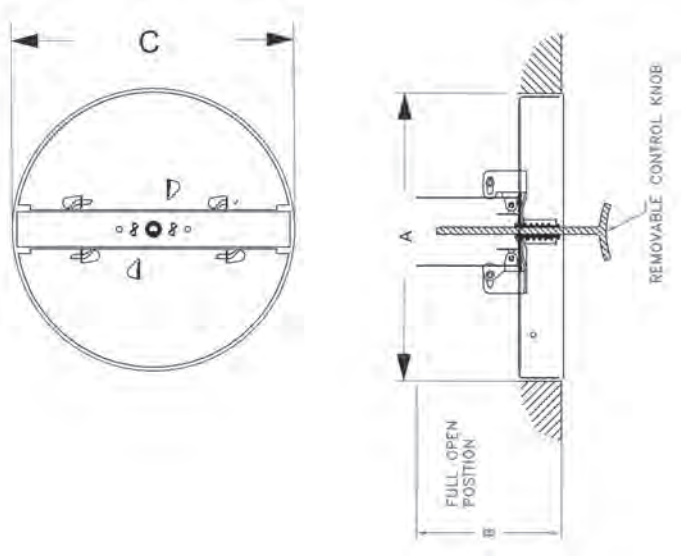
FEATURES

- 24 GA all-steel construction
- Controls air volume evenly
- Removable knob operator for adjustment from closed to fully open
- Available in multiple sizes
- Damper only
- Compatible with TBPD, TBFPD3C, and TBFPD Series T-Bar Diffusers

FINISHES

 Brown (BR)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B	C
BR	6"	BZ33BFD06-G2-BR	.3516231	3-7/16"	5-1/2"
BR	8"	BZ33BFD08-G2-BR	.3513729	4-7/16"	7-1/2"
BR	10"	BZ33BFD10-G2-BR	.3513737	5-7/16"	9-1/2"
BR	12"	BZ33BFD12-G2-BR	.3513736	6-7/16"	11-1/2"
BR	14"	BZ33BFD14-G2-BR	.3521299	7-7/16"	14-7/8"

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TBPD

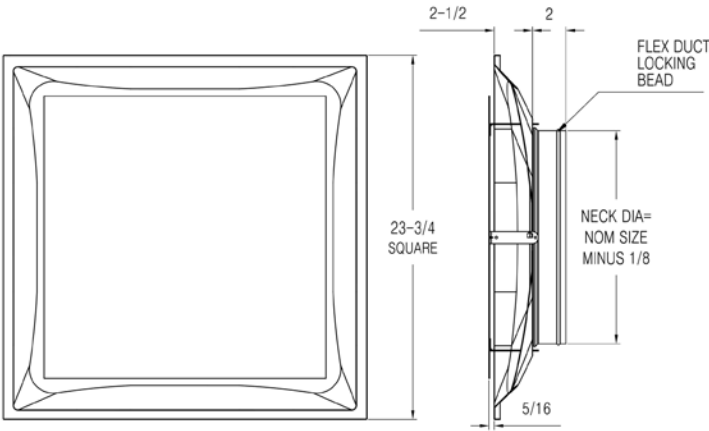
FEATURES

- Provides high air volume delivery
- 360° Air diffusion
- Integral collar with flex duct locking bead
- Easy to clean
- Compatible with BFD Series Butterfly Dampers

FINISHES

 White (WH)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B
WH	6"	BZ33TBPD6-G2-WH	.3521431	5-7/8"
WH	8"	BZ33TBPD8-G2-WH	.3521432	7-7/8"
WH	10"	BZ33TBPD10-G2-WH	.3521433	9-7/8"
WH	12"	BZ33TBPD12-G2-WH	.3521434	11-7/8"
WH	14"	BZ33TBPD14-G2-WH	.3521435	13-7/8"

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ABOUT TBDP





TBFPD

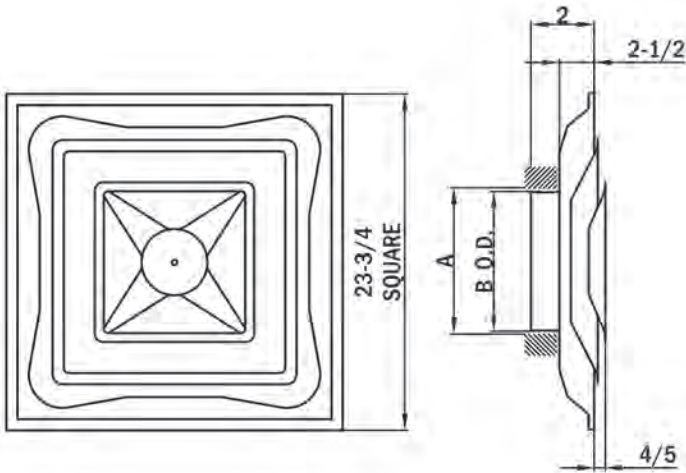
FEATURES

- Provides high air volume delivery
- 360° Air diffusion
- Two-cone fixed core
- Damper adjustable through face
- Integral collar
- Compatible with BFD Series Butterfly Dampers

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B
WH	6"	BZ33TBFPD06-G2-WH	.3513586	5-7/8"
WH	8"	BZ33TBFPD08-G2-WH	.3513585	7-7/8"
WH	10"	BZ33TBFPD10-G2-WH	.3513582	9-7/8"
WH	12"	BZ33TBFPD12-G2-WH	.3513583	11-7/8"
WH	14"	BZ33TBFPD14-G2-WH	.3513584	13-7/8"

SCAN QR TO
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ABOUT TBFPD





TBFPD3C

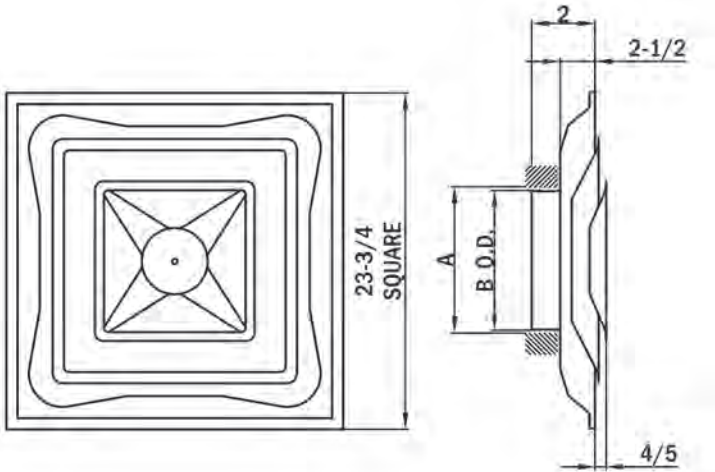
FEATURES

- Provides high air volume delivery
- 360° Air diffusion
- Three-cone fixed core
- Damper adjustable through face
- Integral collar
- Compatible with BFD Series Butterfly Dampers

FINISHES

White (WH)

Image and dimensional drawing are used for representation only.



SPECIFICATIONS

Finish	Size (A)	Model	ID No.	B
WH	6"	BZ33TBFPD3C06-G2-WH	.3516354	5-7/8"
WH	8"	BZ33TBFPD3C08-G2-WH	.3513629	7-7/8"
WH	10"	BZ33TBFPD3C10-G2-WH	.3521396	9-7/8"
WH	12"	BZ33TBFPD3C12-G2-WH	.3520220	11-7/8"
WH	14"	BZ33TBFPD3C14-G2-WH	.3521298	13-7/8"

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ABOUT TBFPD3C



BASEBOARD DIFFUSERS - 15"

Face Velocity		300	400	500	600	700	800	900	1000
15" Ak.161	CFM	48	64	80	96	112	128	144	161
	Ps	0.004	0.008	0.016	0.02	0.028	0.032	0.044	0.052
Throw	50	6	7.5	10	11	13	15.5	17	19.5
Spread	FPM	6	7	10.5	12.5	14.5	16	18	20
Throw	100	3	4	5	6	6.5	8	8.5	10
Spread	FPM	3	3.5	5	6	7	8	9	10
Throw	150	2	2.5	3	4	4.5	5	6	6.5
Spread	FPM	2	2.5	3.5	4	5	5.5	6	6.5

BASEBOARD DIFFUSERS - 18"

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.012	0.024	0.032	0.048	0.068	0.088	0.108	0.132
18" Ak .263	CFM	79	105	131	157	183	210	237	263
	Spread	5	5.5	6.5	8	9	10.5	11.5	13
	Throw	5.5	6	6.5	8	9.5	11	12	13.5

BASEBOARD DIFFUSERS - 24"

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.028	0.04	0.056	0.076	0.096	0.128	0.152	0.192
24" Ak .36	CFM	139	185	231	277	323	370	416	462
	Spread	5	5.5	6.5	8	9	10.5	11.5	13
	Throw	5.5	6	6.5	8	9.5	11	12	13.5

BASEBOARD RETURNS - 1/3" FINS

Face Velocity		300	400	500	600	700
10 x 6 Ak .392	CFM	118	157	196	235	274
	Pt	0.013	0.023	0.037	0.052	0.072
12 x 6 Ak .46	CFM	138	184	230	276	322
	Pt	0.013	0.024	0.037	0.053	0.069
14 x 6 Ak .53	CFM	159	212	265	318	371
	Pt	0.013	0.024	0.036	0.052	0.067
14 x 8 Ak .725	CFM	218	290	363	435	508
	Pt	0.013	0.023	0.035	0.049	0.066
16 x 8 Ak .84	CFM	252	336	420	504	588
	Pt	0.012	0.021	0.033	0.046	0.065
24 x 6 Ak .95	CFM	285	380	475	570	665
	Pt	0.012	0.023	0.033	0.047	0.065
24 x 8 Ak 1.22	CFM	366	488	610	732	854
	Pt	0.01	0.02	0.03	0.042	0.058
30 x 6 Ak 1.12	CFM	336	448	560	672	784
	Pt	0.012	0.022	0.032	0.042	0.062
30 x 8 Ak 1.56	CFM	468	624	780	936	1092
	Pt	0.011	0.019	0.03	0.043	0.059
30 x 10 Ak 1.36	CFM	579	772	965	1158	1351
	Pt	0.012	0.016	0.028	0.04	0.056

FLOOR REGISTERS

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.004	0.008	0.016	0.024	0.028	0.04	0.052	0.06
2 x 10 Ak 0.094	CFM	28	38	47	56	66	75	85	94
	Spread	3	4	5	6	7	8	9	10
	Throw	4	5	6	7	8	9	10	11
2 x 12 Ak 0.11	CFM	33	44	55	66	77	88	99	110
	Spread	4	6	6	7	8	9	10	11
	Throw	5	6	7	8	9	10	11	12
2 x 14 Ak 0.125	CFM	38	50	63	75	88	100	113	125
	Spread	4	6	7	7	8	10	11	12
	Throw	5	7	8	9	10	11	12	13
4 x 8 Ak 0.15	CFM	45	60	75	90	105	120	135	150
	Spread	4	5	7	8	9	10	11	13
	Throw	6	7	8	10	11	12	13	14
4 x 10 Ak 0.17	CFM	51	68	85	102	119	136	153	170
	Spread	5	6	7	8	10	11	13	15
	Throw	6	7	9	11	12	13	15	17
4 x 12 Ak 0.2	CFM	60	80	100	120	140	160	180	200
	Spread	6	7	9	11	12	14	15	17
	Throw	5	6	8	9	10	11	13	14
4 x 14 Ak .230	CFM	69	92	115	138	161	184	207	230
	Spread	7	8	10	11	13	16	17	19
	Throw	6	7	8	10	11	13	14	15
6 x 10 Ak 0.247	CFM	74	99	124	148	173	198	222	247
	Spread	6	8	9	12	13	15	17	19
	Throw	5	7	8	10	11	13	14	15
6 x 12 Ak 0.285	CFM	86	114	143	171	200	228	257	285
	Spread	7	9	10	13	15	17	19	22
	Throw	6	8	9	11	12	15	16	18
6 x 14 Ak 0.33	CFM	101	134	168	201	235	268	302	335
	Spread	8	9	11	13	16	18	20	22
	Throw	6	8	10	12	13	15	17	18

TOE SPACE GRILLES

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.006	0.01	0.016	0.022	0.031	0.04	0.05	0.062
2 x 10 Ak .094	CFM	28	38	47	56	66	75	85	94
	Spread	3	4	5	6	7	8	9	10
	Throw	4	5	6	7	8	9	10	11
2 x 12 Ak .11	CFM	33	44	55	66	77	88	99	110
	Spread	4	6	6	7	8	9	10	11
	Throw	5	6	7	8	9	10	11	12
2 x 14 Ak .125	CFM	38	50	63	75	88	100	113	125
	Spread	4	6	7	7	8	10	11	12
	Throw	5	7	8	9	10	11	12	13

TOE SPACE GRILLES

Face Velocity		300	400	500	600	700	800	900	1000
4 x 12 Ak .2	CFM	60	80	100	120	140	160	180	200
	Spread	6	7	9	11	12	14	15	17
	Throw	5	6	8	9	10	11	13	14

FLOOR RETURNS

Face Velocity		400	500	600	700	800	900	1000
4 x 10 Ak .265	CFM	106	133	159	186	212	239	265
	Pt	0.012	0.015	0.023	0.031	0.041	0.051	0.069
4 x 12 Ak .301	CFM	120	151	181	211	241	271	301
	Pt	0.012	0.015	0.022	0.031	0.04	0.051	0.069
4 x 14 Ak .337	CFM	135	169	202	236	270	303	337
	Pt	0.011	0.014	0.021	0.031	0.039	0.05	0.067
4 x 24 Ak .591	CFM	236	296	355	414	473	532	591
	Pt	0.01	0.014	0.018	0.028	0.037	0.047	0.057
4 x 30 Ak .74	CFM	296	370	444	518	592	666	740
	Pt	0.008	0.014	0.017	0.027	0.036	0.043	0.054
6 x 10 Ak .37	CFM	148	185	222	259	296	333	370
	Pt	0.011	0.014	0.02	0.031	0.039	0.049	0.066
6 x 12 Ak .455	CFM	182	228	273	319	364	410	455
	Pt	0.01	0.014	0.02	0.03	0.039	0.048	0.064
6 x 14 Ak .54	CFM	216	270	324	378	432	486	540
	Pt	0.01	0.014	0.019	0.029	0.037	0.047	0.062
6 x 20 Ak .74	CFM	296	370	444	518	592	666	740
	Ps	0.008	0.014	0.017	0.027	0.036	0.043	0.054
6 x 24 Ak .86	CFM	344	430	516	602	688	774	860
	Pt	0.007	0.013	0.017	0.024	0.033	0.041	0.052
6 x 30 Ak .103	CFM	420	525	630	735	840	945	1050
	Pt	0.007	0.013	0.017	0.023	0.032	0.041	0.048
8 x 10 Ak 0.505	CFM	202	253	303	354	404	455	505
	Pt	0.01	0.014	0.019	0.029	0.037	0.047	0.063
8 x 12 Ak .591	CFM	236	296	355	414	473	532	591
	Pt	0.01	0.014	0.018	0.028	0.037	0.047	0.057
8 x 14 Ak .71	CFM	284	355	426	497	568	639	710
	Pt	0.008	0.014	0.017	0.027	0.036	0.044	0.058
8 x 16 Ak 0.78	CFM	312	390	468	546	624	702	780
	Ps	0.008	0.014	0.017	0.025	0.033	0.041	0.052
8 x 20 Ak .923	CFM	369	462	554	646	738	831	923
	Ps	0.007	0.013	0.017	0.023	0.033	0.041	0.05
8 x 24 Ak 1.11	CFM	452	565	678	791	904	1017	1130
	Pt	0.007	0.013	0.017	0.023	0.031	0.04	0.048
8 x 30 Ak 1.37	CFM	548	685	822	959	1096	1233	1370
	Pt	0.007	0.012	0.017	0.023	0.029	0.036	0.046
10 x 10 Ak .658	CFM	263	329	395	461	526	592	658
	Pt	0.009	0.014	0.018	0.028	0.037	0.046	0.06
10 x 12 Ak .74	CFM	296	370	444	518	592	666	740
	Pt	0.008	0.014	0.017	0.027	0.036	0.043	0.054

FLOOR RETURNS

Face Velocity		400	500	600	700	800	900	1000
10 x 14 Ak .802	CFM	321	401	481	561	642	722	802
	Pt	0.007	0.013	0.017	0.024	0.033	0.041	0.052
10 x 20 Ak 1.22	CFM	488	610	732	854	976	1098	1220
	Pt	0.007	0.012	0.017	0.023	0.03	0.038	0.047
10 x 24 Ak 1.37	CFM	548	685	822	959	1096	1233	1370
	Pt	0.007	0.012	0.017	0.023	0.029	0.036	0.046
10 x 30 Ak 1.71	CFM	684	855	1026	1197	1368	1539	1710
	Pt	0.007	0.01	0.015	0.022	0.028	0.035	0.044
12 x 12 Ak 0.86	CFM	344	430	516	602	688	774	860
	Pt	0.007	0.013	0.017	0.024	0.033	0.041	0.052
12 x 14 Ak .98	CFM	392	490	588	686	784	882	980
	Pt	0.007	0.013	0.017	0.023	0.032	0.041	0.052
12 x 20 Ak 1.37	CFM	548	685	822	959	1096	1233	1370
	Pt	0.007	0.012	0.017	0.023	0.029	0.036	0.046
12 x 24 Ak 1.64	CFM	672	840	1008	1176	1344	1512	1680
	Pt	0.007	0.011	0.016	0.023	0.028	0.035	0.044
12 x 30 Ak 2.12	CFM	848	1060	1272	1484	1696	1908	2120
	Pt	0.007	0.01	0.015	0.021	0.026	0.033	0.04
14 x 14 Ak 1.18	CFM	472	590	708	826	944	1062	1180
	Pt	0.007	0.012	0.017	0.023	0.031	0.039	0.048
14 x 16 Ak 1.28	CFM	512	640	768	896	1024	1152	1280
	Pt	0.007	0.012	0.017	0.023	0.029	0.036	0.046
14 x 24 Ak 1.96	CFM	784	980	1176	1372	1568	1764	1960
	Pt	0.007	0.01	0.015	0.021	0.026	0.033	0.04
14 x 30 Ak 2.35	CFM	988	1235	1482	1729	1976	2223	2470
	Pt	0.007	0.01	0.014	0.02	0.025	0.031	0.039
16 x 30 Ak 2.65	CFM	1060	1325	1590	1855	2120	2385	2650
	Pt	0.006	0.01	0.014	0.019	0.024	0.03	0.038
20 x 30 Ak 3.55	CFM	1420	1775	2130	2485	2840	3195	3550
	Pt	0.006	0.009	0.012	0.017	0.023	0.028	0.035
24 x 30 Ak 4.45	CFM	1780	2225	2670	3115	3560	4005	4450
	Pt	0.006	0.009	0.012	0.017	0.022	0.028	0.035

ROUND CEILING DIFFUSERS

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.008	0.012	0.016	0.024	0.032	0.044	0.048	0.064
6" Neck Ak .137	CFM	41	55	69	83	96	110	123	137
	Throw	3	4	5	5	6	6	6	7
8" Neck Ak .23	CFM	69	92	115	138	161	184	207	230
	Throw	3	5	6	6	7	7	7	8
10" Neck Ak .345	CFM	104	138	173	207	242	276	311	345
	Throw	4	6	6	7	7	8	8	9
12" Neck Ak .505	CFM	152	202	253	303	354	404	455	505
	Throw	4	6	7	8	9	9	10	10

WALL RETURNS - 1/3" FINS

Face Velocity		300	400	500	600
6 x 6 Ak .169	CFM	51	68	85	101
	Ps	0.01	0.018	0.029	0.042
6 x 14 Ak .397	CFM	119	159	199	238
	Ps	0.01	0.018	0.029	0.041
8 x 8 Ak .3	CFM	90	120	150	180
	Ps	0.012	0.018	0.028	0.04
10 x 4 Ak .19	CFM	57	76	95	114
	Ps	0.012	0.02	0.028	0.04
10 x 6 Ak .29	CFM	87	116	145	174
	Ps	0.012	0.02	0.028	0.04
10 x 8 Ak .379	CFM	114	152	190	227
	Ps	0.012	0.02	0.028	0.04
10 x 10 Ak .491	CFM	147	196	246	295
	Ps	0.012	0.02	0.028	0.04
12 x 4 Ak .225	CFM	68	90	113	135
	Ps	0.01	0.018	0.029	0.041
12 x 6 Ak .34	CFM	102	136	170	204
	Ps	0.012	0.02	0.028	0.04
12 x 8 Ak .452	CFM	136	181	226	271
	Ps	0.012	0.02	0.028	0.04
12 x 10 Ak .57	CFM	171	228	285	342
	Ps	0.012	0.02	0.028	0.04
12 x 12 Ak .687	CFM	206	275	344	412
	Ps	0.012	0.02	0.028	0.044
12 x 24 Ak 1.38	CFM	414	552	690	828
	Ps	0.012	0.02	0.028	0.042
14 x 4 Ak .263	CFM	79	105	132	158
	Ps	0.012	0.02	0.028	0.044
14 x 6 Ak .397	CFM	119	159	199	238
	Ps	0.01	0.018	0.029	0.041
14 x 8 Ak .531	CFM	159	212	226	271
	Ps	0.012	0.02	0.028	0.04
14 x 10 Ak .661	CFM	198	265	331	397
	Ps	0.01	0.018	0.029	0.041

WALL RETURNS - 1/3" FINS

Face Velocity		300	400	500	600
14 x 12 Ak .805	CFM	242	322	403	483
	Ps	0.012	0.02	0.028	0.043
14 x 14 Ak .930	CFM	279	372	465	558
	Ps	0.01	0.018	0.029	0.041
14 x 20 Ak 1.34	CFM	402	536	670	804
	Ps	0.012	0.016	0.028	0.044
14 x 24 Ak 1.63	CFM	489	652	815	978
	Ps	0.012	0.016	0.028	0.044
16 x 8 Ak .604	CFM	181	242	302	362
	Ps	0.01	0.018	0.029	0.041
16 x 12 Ak .911	CFM	273	364	455	547
	Ps	0.01	0.018	0.029	0.041
16 x 14 Ak 1.065	CFM	320	426	533	639
	Ps	0.01	0.018	0.029	0.041
16 x 16 Ak 1.23	CFM	369	492	615	738
	Ps	0.012	0.016	0.028	0.04
16 x 20 Ak 1.374	CFM	412	550	687	825
	Ps	0.01	0.018	0.029	0.041
18 x 16 Ak 1.38	CFM	414	552	690	828
	Ps	0.012	0.02	0.028	0.042
18 x 18 Ak 1.548	CFM	465	619	774	929
	Ps	0.01	0.018	0.029	0.041
20 x 6 Ak .556	CFM	170	226	283	339
	Ps	0.01	0.018	0.029	0.041
20 x 8 Ak .750	CFM	220	275	330	385
	Ps	0.018	0.032	0.051	0.07
20 x 10 Ak .949	CFM	285	380	475	570
	Ps	0.01	0.018	0.029	0.041
20 x 12 Ak 1.115	CFM	345	460	575	690
	Ps	0.01	0.018	0.029	0.041
20 x 14 Ak 1.34	CFM	402	536	670	804
	Ps	0.012	0.016	0.028	0.044
20 x 16 Ak 1.543	CFM	463	617	772	926
	Ps	0.012	0.016	0.028	0.04

WALL RETURNS - 1/3" FINS

Face Velocity		300	400	500	600
20 x 20 Ak 1.932	CFM	580	773	966	1159
	Ps	0.012	0.016	0.028	0.04
24 x 4 Ak .452	CFM	136	181	226	271
	Ps	0.012	0.02	0.028	0.04
24 x 6 Ak .687	CFM	206	275	344	412
	Ps	0.012	0.02	0.028	0.044
24 x 8 Ak .921	CFM	276	368	461	553
	Ps	0.012	0.016	0.028	0.04
24 x 10 Ak 1.15	CFM	345	460	575	690
	Ps	0.01	0.018	0.029	0.041
24 x 12 Ak 1.38	CFM	414	552	690	828
	Ps	0.012	0.02	0.028	0.042
24 x 14 Ak 1.63	CFM	489	652	815	978
	Ps	0.012	0.016	0.028	0.044
24 x 16 Ak 1.84	CFM	552	736	920	1104
	Ps	0.01	0.018	0.028	0.042
24 x 18 Ak 2.08	CFM	624	832	1040	1248
	Ps	0.012	0.02	0.028	0.04
24 x 20 Ak 2.318	CFM	695	927	1159	1391
	Ps	0.012	0.02	0.028	0.04
24 x 24 Ak 2.78	CFM	834	1112	1390	1668
	Ps	0.012	0.019	0.028	0.04
24 x 30 Ak 3.49	CFM	1047	1396	1746	2094
	Ps	0.012	0.019	0.028	0.04
30 x 4 Ak .57	CFM	171	228	285	342
	Ps	0.012	0.02	0.028	0.04

WALL RETURNS - 1/3" FINS

Face Velocity		300	400	500	600
30 x 6 Ak .857	CFM	257	343	429	514
	Ps	0.012	0.016	0.028	0.04
30 x 8 Ak 1.15	CFM	345	460	575	690
	Ps	0.01	0.018	0.029	0.041
30 x 10 Ak 1.42	CFM	426	568	710	852
	Ps	0.011	0.02	0.028	0.04
30 x 12 Ak 1.73	CFM	519	692	865	1038
	Ps	0.012	0.016	0.028	0.044
30 x 14 Ak 2.02	CFM	606	808	1010	1212
	Ps	0.012	0.016	0.028	0.044
30 x 16 Ak 2.318	CFM	695	927	1159	1391
	Ps	0.012	0.02	0.028	0.04
30 x 20 Ak 2.89	CFM	867	1156	1445	1734
	Ps	0.012	0.02	0.028	0.044
30 x 24 Ak 3.49	CFM	1047	1396	1746	2094
	Ps	0.012	0.019	0.028	0.04
30 x 30 Ak 4.37	CFM	1311	1748	2185	2622
	Ps	0.01	0.019	0.028	0.04
36 x 6 Ak 1.04	CFM	312	416	520	624
	Ps	0.012	.016	0.028	0.044
36 x 8 Ak 1.38	CFM	414	552	690	828
	Ps	0.012	0.02	0.028	0.042

WALL RETURNS - 1/2" FINS

Face Velocity		300	400	500	600
8 x 6 Ak .23	CFM	69	92	115	138
	Ps	0.02	0.036	0.052	0.08
12 x 6 Ak .34	CFM	102	136	170	204
	Ps	0.012	0.02	0.028	0.04
12 x 12 Ak .67	CFM	201	268	335	402
	Ps	0.02	0.032	0.052	0.072
12 x 24 Ak 1.3	CFM	390	520	650	780
	Ps	0.02	0.032	0.052	0.072
14 x 6 Ak .397	CFM	119	159	199	238
	Ps	0.01	0.018	0.029	0.041
14 x 8 Ak .531	CFM	159	212	226	271
	Ps	0.012	0.02	0.028	0.04
14 x 14 Ak .890	CFM	267	357	446	535
	Ps	0.019	0.034	0.053	0.075
14 x 20 Ak 1.28	CFM	384	512	640	768
	Ps	0.02	0.032	0.052	0.072

WALL RETURNS - 1/2" FINS

Face Velocity		300	400	500	600
16 x 8 Ak .62	CFM	186	248	310	372
	Ps	0.02	0.032	0.052	0.076
16 x 10 Ak .74	CFM	222	296	370	444
	Ps	0.02	0.032	0.052	0.072
16 x 16 Ak 1.160	CFM	348	464	580	696
	Ps	0.019	0.033	0.052	0.074
16 x 20 Ak 1.270	CFM	380	507	634	760
	Ps	0.019	0.033	0.052	0.074
18 x 14 Ak 1.14	CFM	343	457	571	685
	Ps	0.019	0.033	0.052	0.074
18 x 18 Ak 1.460	CFM	439	585	732	878
	Ps	0.019	0.033	0.052	0.073
20 x 10 Ak .92	CFM	276	368	460	552
	Ps	0.02	0.032	0.052	0.072
20 x 14 Ak 1.28	CFM	384	512	640	768
	Ps	0.02	0.032	0.052	0.072

ENGINEERING DATA

WALL RETURNS - 1/2" FINS

Face Velocity		300	400	500	600
20 x 16 Ak 1.543	CFM	463	617	772	926
	Ps	0.012	0.016	0.028	0.04
20 x 20 Ak .181	CFM	543	724	905	1086
	Ps	0.016	0.032	0.052	0.072
24 x 6 Ak .67	CFM	201	268	335	402
	Ps	0.02	0.032	0.052	0.072
24 x 8 Ak .921	CFM	276	368	461	553
	Ps	0.012	0.016	0.028	0.04
24 x 10 Ak 1.09	CFM	327	435	544	653
	Ps	0.019	0.033	0.052	0.074
24 x 12 Ak 1.3	CFM	290	520	650	780
	Ps	0.02	0.032	0.052	0.072

WALL RETURNS - 1/2" FINS

Face Velocity		300	400	500	600
24 x 16 Ak 1.73	CFM	519	692	865	1038
	Ps	0.016	0.032	0.052	0.072
24 x 24 Ak 2.78	CFM	834	1112	1390	1668
	Ps	0.012	0.019	0.028	0.04
30 x 6 Ak .83	CFM	249	332	415	498
	Ps	0.02	0.032	0.052	0.073
30 x 10 Ak 1.42	CFM	426	568	710	852
	Ps	0.011	0.02	0.028	0.04
30 x 12 Ak 1.65	CFM	495	660	825	990
	Ps	0.02	0.032	0.052	0.07

WALL/CEILING REGISTERS - 1/3"

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.008	0.012	0.016	0.024	0.032	0.044	0.052	0.064
6 x 6 Ak .128	CFM	38	51	64	77	90	102	115	128
	Throw	5	6	8	9	11	13	14	16
8 x 4 Ak .125	CFM	38	50	63	75	88	100	113	125
	Throw	5	6	8	9	11	13	14	16
8 x 6 Ak .192	CFM	58	77	96	115	134	154	173	192
	Throw	6	7	9	11	13	15	17	19
8 x 8 Ak .263	CFM	79	105	132	158	184	210	237	263
	Throw	7	9	11	14	16	18	21	23
10 x 4 Ak .156	CFM	47	62	78	94	109	125	140	156
	Throw	5	7	8	10	12	13	15	17
10 x 6 Ak .252	CFM	76	101	126	151	176	202	227	252
	Throw	7	9	11	13	16	18	20	22
10 x 8 Ak .357	CFM	107	143	179	214	250	286	321	357
	Throw	8	10	12	15	18	20	23	25
10 x 10 Ak .31	CFM	95	125	155	185	215	250	280	310
	Throw	5	7	8.5	10	12	14	15.5	17
12 x 4 Ak .192	CFM	58	77	96	115	134	154	173	192
	Throw	6	7	9	11	13	15	17	19
12 x 6 Ak .309	CFM	93	124	155	185	216	247	278	309
	Throw	7	9	12	14	16	19	21	23
12 x 8 Ak .437	CFM	131	175	219	262	306	350	393	437
	Throw	8	11	14	16	19	22	25	27
12 x 10 Ak .563	CFM	169	225	282	338	394	450	507	563
	Throw	10	12	16	18	21	25	27	31
12 x 12 Ak .69	CFM	207	276	345	414	483	552	621	690
	Throw	10	13	17	20	23	27	29	33
14 x 4 Ak .234	CFM	70	94	117	140	164	187	211	234
	Throw	7	9	11	14	15	17	19	21
14 x 6 Ak .372	CFM	112	149	186	223	260	298	335	372
	Throw	8	11	13	15	18	20	23	25

WALL/CEILING REGISTERS - 1/3"

Face Velocity		300	400	500	600	700	800	900	1000
14 x 8 Ak .524	CFM	157	210	262	314	367	419	472	524
	Throw	8	11	14	17	20	23	26	29
16 x 8 Ak .6	CFM	180	240	300	360	420	480	540	600
	Throw	9	11	15	17	21	24	26	30

WALL/CEILING REGISTERS - 1/2"

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.008	0.012	0.016	0.024	0.032	0.044	0.052	0.064
10 x 4 Ak .115	CFM	38	50	63	75	88	100	113	125
	Throw	4	5	6	7	9	10	12	13
10 x 6 Ak .186	CFM	56	74	93	112	130	149	167	186
	Throw	6	7	9	10	11	13	14	15
12 x 4 Ak .146	CFM	44	58	73	88	102	117	131	146
	Throw	5	6	7	9	10	11	12	14
12 x 6 Ak .236	CFM	71	94	118	142	165	189	212	236
	Throw	6	8	9	11	13	14	16	17
12 x 8 Ak .327	CFM	98	131	164	196	229	262	294	327
	Throw	7	8	10	12	13	15	17	19
14 x 4 Ak .178	CFM	53	71	89	107	125	142	160	178
	Throw	5	6	8	9	10	12	13	14
14 x 10 Ak .49	CFM	147	196	245	294	343	392	441	490
	Throw	8	11	14	17	20	23	26	28

WALL/CEILING REGISTERS - ALUMINUM

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.008	0.012	0.016	0.024	0.032	0.04	0.052	0.064
10 x 4 Ak .15	CFM	45	60	75	90	104	120	135	150
	Throw	4	6	7	9	10	11	13	14

WALL/CEILING REGISTERS - 3 WAY

Face Velocity		300	400	500	600	700	800	900	1000
Pressure Loss		0.008	0.012	0.016	0.024	0.032	0.044	0.052	0.064
10 x 4 Ak .12	Total CFM	36	48	60	72	84	96	108	120
	CFM L/S	21/7	30/9	38/11	45/13	53/15	60/17	68/20	76/22
	Throw L/S	4/3	7/4	8/5	9/6	10/7	11/7	13/8	15/9

RETURN AIR FILTER GRILLES - 1/3"

Face Velocity		300	400	500	600
12 x 12 Ak .687	CFM	206	275	344	412
	Ps	0.012	0.02	0.028	0.044
14 x 14 Ak .937	CFM	281	375	469	562
	Ps	0.012	0.018	0.028	0.044

RETURN AIR FILTER GRILLES - 1/3"

Face Velocity		300	400	500	600
14 x 20 Ak 1.34	CFM	402	536	670	804
	Ps	0.012	0.016	0.028	0.044
14 x 24 Ak 1.63	CFM	489	652	815	978
	Ps	0.012	0.016	0.028	0.044

RETURN AIR FILTER GRILLES - 1/3"

Face Velocity		300	400	500	600
14 x 25 Ak 1.715	CFM	515	686	858	1029
	Ps	0.012	0.016	0.028	0.044
16 x 16 Ak 1.23	CFM	369	492	615	738
	Ps	0.012	0.016	0.028	0.04
16 x 20 1.543	CFM	463	617	772	926
	Ps	0.012	0.016	0.028	0.04
16 x 25 Ak 1.932	CFM	580	773	966	1159
	Ps	0.012	0.016	0.028	0.04
18 x 18 Ak 1.562	CFM	469	625	781	937
	Ps	0.012	0.02	0.028	0.04
20 x 14 Ak 1.34	CFM	402	536	670	804
	Ps	0.012	0.016	0.028	0.044
20 x 16 Ak 1.543	CFM	463	617	772	926
	Ps	0.012	0.016	0.028	0.04
20 x 20 Ak 1.932	CFM	580	773	966	1159
	Ps	0.012	0.016	0.028	0.04

RETURN AIR FILTER GRILLES - 1/3"

Face Velocity		300	400	500	600
20 x 25 Ak 2.416	CFM	725	966	1208	1450
	Ps	0.012	0.02	0.028	0.044
20 x 30 Ak 2.89	CFM	867	1156	1445	1734
	Ps	0.012	0.02	0.028	0.044
24 x 12 Ak 1.38	CFM	414	552	690	828
	Ps	0.012	0.02	0.028	0.042
24 x 14 Ak 1.63	CFM	489	652	815	978
	Ps	0.012	0.016	0.028	0.044
24 x 24 Ak 2.78	CFM	834	1112	1390	1668
	Ps	0.012	0.019	0.028	0.04
25 x 14 1.715	CFM	515	686	858	1029
	Ps	0.012	0.016	0.028	0.044
25 x 16 Ak 1.932	CFM	580	773	966	1159
	Ps	0.012	0.016	0.028	0.04
25 x 20 Ak 2.416	CFM	725	966	1208	1450
	Ps	0.012	0.02	0.028	0.044

RETURN AIR FILTER GRILLES - 1/2"

Face Velocity		300	400	500	600
14 x 14 Ak .9	CFM	270	360	450	540
	Ps	0.02	0.032	0.052	0.072
16 x 16 Ak 1.17	CFM	351	468	585	702
	Ps	0.02	0.032	0.052	0.072
18 x 18 Ak 1.47	CFM	441	588	735	882
	Ps	0.02	0.032	0.052	0.072

RETURN AIR FILTER GRILLES - 1/2"

Face Velocity		300	400	500	600
20 x 20 Ak 1.81	CFM	543	724	905	1086
	Ps	0.02	0.032	0.052	0.072
24 x 12 Ak 1.3	CFM	390	520	650	780
	Ps	0.02	0.032	0.052	0.072

VERTICAL SINGLE SUPPLY REGISTERS

Face Velocity		400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
Pressure Loss		0.012	0.016	0.024	0.032	0.04	0.052	0.064	0.076	0.092	0.108	0.124	0.164	0.204	0.252
10 x 4 Ak .203	CFM	82	102	122	143	163	184	204	224	245	265	286	326	367	408
	Throw	7	9	11	13	14	17	18	21	22	24	26	30	33	36
10 x 6 Ak .315	CFM	126	158	189	221	252	284	315	347	378	410	441	504	567	630
	Throw	9	11	14	16	18	22	23	25	28	30	33	36	41	46
12 x 4 Ak .248	CFM	99	124	149	174	198	223	248	273	298	322	347	397	446	496
	Throw	8	11	13	14	16	19	20	23	24	27	29	33	37	41
12 x 6 Ak .381	CFM	152	191	229	267	305	343	381	419	457	495	533	610	686	762
	Throw	10	12	15	17	21	22	26	27	30	33	36	41	45	50
12 x 12 Ak .774	CFM	310	387	464	542	619	697	774	851	929	1006	1084	1238	1393	1548
	Throw	14	18	21	25	28	32	35	40	43	47	50	57	64	72
14 x 6 Ak .448	CFM	179	224	269	314	358	403	448	493	538	582	627	717	806	896
	Throw	11	13	16	19	23	24	27	30	33	35	39	43	50	54
14 x 8 Ak .591	CFM	236	296	355	414	473	532	591	650	709	768	827	946	1064	1182
	Throw	12	15	19	22	25	28	30	33	37	40	44	50	56	63
16 x 8 Ak .684	CFM	274	342	410	479	547	616	684	752	821	889	958	1094	1231	1368
	Throw	14	17	20	24	27	30	33	37	31	43	47	43	59	66

HORIZONTAL RETURNS

Face Velocity		300	400	500	600	700	800	900	1000
12 x 6 Ak .34	CFM	102	136	170	204	238	272	306	340
	Ps	0.012	0.02	0.032	0.048	0.06	0.076	0.1	0.128
14 x 6 Ak .38	CFM	114	152	190	228	266	304	342	380
	Ps	0.012	0.02	0.032	0.044	0.06	0.076	0.1	0.124
20 x 20 Ak 1.92	CFM	576	768	960	1152	1344	1536	1728	1920
	Ps	0.012	0.02	0.032	0.044	0.06	0.084	0.1	0.12
24 x 24 Ak 2.8	CFM	840	1120	1400	1680	1960	2240	2520	2800
	Ps	0.012	0.02	0.032	0.048	0.06	0.092	0.1	0.124

T-BAR DIFFUSERS

Face Velocity		400	500	600	700	800	900	1000	1200	1400
6 An .2 Ak .275	CFM	80	100	120	140	160	180	200	240	280
	Ps	0.006	0.01	0.014	0.018	0.024	0.03	0.037	0.054	0.072
	Throw	1	2	2	2.5	3	3.5	4	4.5	5.5
8 An .35 Ak .355	CFM	140	175	210	245	280	315	350	420	490
	Ps	0.01	0.015	0.022	0.029	0.038	0.049	0.06	0.086	0.117
	Throw	2.5	3.5	4	4.5	5	5.5	6	7	8
10 An .54 Ak .62	CFM	216	270	324	378	432	486	540	648	756
	Ps	0.014	0.02	0.028	0.041	0.054	0.068	0.084	0.122	0.167
	Throw	4	5.5	6.5	8	9	10	11.5	14.5	17
12 An .78 Ak .7	CFM	312	390	468	546	624	702	780	936	1092
	Ps	0.018	0.024	0.032	0.052	0.063	0.072	0.094	0.132	0.18
	Throw	5.5	7	8.5	10	11.5	13	14.5	17.5	20.5
14 An 1.07 Ak .75	CFM	428	535	642	749	856	963	1070	1284	1498
	Ps	0.022	0.03	0.04	0.064	0.08	0.115	0.14	0.205	0.277
	Throw	7	8.5	10.5	12	13.5	15.5	17	20.5	24

T-BAR DIFFUSERS

Neck Velocity		400	500	600	700	800	900	1000	1200	1400	1600
6 An .2 Ak .76 (retracted) Ak .8 (extended)	CFM	80	100	120	140	160	180	200	240	280	320
	Ps (retr.)	0.024	0.04	0.056	0.072	0.1	0.116	0.144	0.22	0.296	0.4
	Ps (ext.)	0.008	0.016	0.024	0.032	0.048	0.06	0.076	0.116	0.156	0.208
	Throw (retr.)	2	3	3	4	5	6	6	8	10	12
	Throw (ext.)	2	3	4	4	5	6	7	9	11	13
8 An .35 Ak .88 (retracted) Ak .94 (extended)	CFM	140	175	210	245	280	315	350	420	490	560
	Ps (retr.)	0.028	0.044	0.064	0.088	0.12	0.152	0.188	0.272	0.396	0.5
	Ps (ext.)	0.016	0.024	0.036	0.048	0.072	0.092	0.108	0.16	0.232	0.32
	Throw (retr.)	4	5	6	7	8	9	10	12	14	16
	Throw (ext.)	4	5	6	8	9	10	12	14	17	20
10 An .54 Ak 1.16 (extended) Ak 1.22 (extended)	CFM	216	270	324	378	432	486	540	648	756	864
	Ps (retr.)	0.044	0.076	0.096	0.128	0.172	0.224	0.26	0.368	0.5	0.64
	Ps (ext.)	0.028	0.044	0.06	0.084	0.112	0.136	0.168	0.224	0.284	0.46
	Throw (retr.)	6	7	9	10	12	13	15	17	20	23
	Throw (ext.)	6	8	9	11	13	15	17	21	25	29

T-BAR DIFFUSERS

Neck Velocity		400	500	600	700	800	900	1000	1200	1400	1600
12 An .79 Ak 1.63 (retracted) Ak 1.69 (extended)	CFM	312	390	468	546	624	702	780	936	1092	1248
	Ps (retr.)	0.052	0.08	0.116	0.152	0.18	0.22	0.276	0.404	0.544	0.644
	Ps (ext.)	0.04	0.052	0.076	0.096	0.124	0.144	0.192	0.272	0.368	0.476
	Throw (retr.)	7	10	11	12	14	17	19	22	27	28
	Throw (ext.)	9	11	12	13	15	18	20	24	29	30
14 An 1.07 Ak 2.03 (retracted) Ak 2.09 (extended)	CFM	428	535	642	749	856	963	1070	1284	1498	1712
	Ps (retr.)	0.08	0.128	0.172	0.228	0.276	0.34	0.464	0.644	0.812	1.004
	Ps (ext.)	0.064	0.084	0.116	0.136	0.18	0.212	0.3	0.408	0.524	0.696
	Throw (retr.)	8	9	12	13	15	16	18	22	25	28
	Throw (ext.)	10	11	13	15	17	19	22	26	29	32

BREEZE33 RESIDENTIAL

	Breeze33	H&C	Accord	AirMate	Continental	Lima	Shoemaker	TruAire	US Aire
Baseboard Diffuser	BBD	406	150	350	150/180/240	470	875	115R/118R/120R	1340
Baseboard Return	BBRAG-13	657	195	174	BG31	671	1133	123R	—
Floor Register	FR	421	101	302	28/28PC	800	325	150M	1510D
Heavy Duty Floor Register	HDFR	411	110	310-FB	—	850	375	—	—
Floor Register, Screw Holes	FRWSH	421WSH	102	302-H	30	—	—	—	1510DX
Toe Space Grille	TSG	420	210	301	TG32	875	TS	150TS	1320
Floor Return	FRAG	265	120	325	F25	825	1600R	154R	1530
Round Ceiling Damper	RCDP	12	301	800-D	12B	—	—	801	—
Round Ceiling Diffuser	RCDF	16	300	800	16	150	90	800	9005
Duct Ring	DR	11	344	800-R	11	156	92	803	—
Wall Return (1/3")	WRAG-13	650	515	173	G35	63GH	1033	173	—
Wall Return (1/2")	WRAG-12	672	500	170	G25	60GH7	1050	170	1400
Wall/Ceiling Register (1/3")	WCR-13	661	222	163	32	632	833	132M	—
Wall/Ceiling Register (1/2")	WCR-12	682	202	160	22	602	850	102M	102M
Return Air Filter Grille	RAFG	659/673	520/525	170FF	FG2/FG3	60GH7	FG-1	190/190RF	1410F
Vertical Single Supply Register	VSSR	821	411	220-V	RV/ML	—	951	210VM	—
Horizontal Return	HRAG	831	422	280	FBG	—	935	270	—
Curved Blade Register	CBR	CH2	282	A482	SACB2	600	200	302	LT-1

BREEZE33 LIGHT COMMERCIAL

	Breeze33	H&C	Accord	AirMate	Carnes	Continental	Grille Tech	J&J	Krueger	Shoemaker	Titus	MetalAire	TruAir
Butterfly Damper	BFD	3800	343	800-DO	—	BCD	R22	RP12	RP12	AG-85	—	BDS	802
T-Bar Plaque Diffuser	TBPD	DPD	—	1300FP-2	SFPA	—	—	1580/90	PLQ	HL	OMNI	5750	2002CD
2 Cone T-Bar Diffuser	TBFPD	FPD	952	1302-INS	SFTB	FPD NI	—	—	M1450	HVL	350RLF	5700-6	2003CD
3 Cone T-Bar Diffuser	TBFPD3C	FPD3	962	1300-INS	SFTB	HVS	—	2004CD	—	HVD	TMS-3 IB	5800-6	2004CD

WARRANTY

WARRANTY

Breeze33 Products LLC (Breeze33®) warrants to the ORIGINAL PURCHASER that its registers, grilles and diffusers shall be free from defects in material and workmanship under normal use and service for a lifetime. This warranty cannot be transferred - it is extended only to the original purchaser or first user of the product. By accepting and keeping this product you agree to all of the warranty terms and limitations of liability described below.

Breeze33's obligations under the warranty set forth above shall be to replace any Breeze33 register, grille or diffuser which is defective.

WHAT IS NOT COVERED?

The warranty above does not cover and Breeze33 is not liable for, (i) installation, (ii) any labor charges or (iii) products which have been damaged as a result of any accident, misuse, abuse, neglect, improper installation or maintenance, the use of abrasive or organic solvent cleaners, modification, failure to use the register, grille or diffuser in accordance with instructions provided by Breeze33.

HOW TO OBTAIN WARRANTY SERVICE

Contact our warranty department at 740-314-4404 to report the defect. Return failed product with proof of purchase, your name, and address within 30 days of failure to:

**Breeze33 Products LLC
5700 Lee Road South
Maple Heights, Ohio 44137**

LIMITATION OF LIABILITY

Breeze33's liability on any claim of any kind, including, without limitation, warranty, negligence and/or breach of contract, shall in no case exceed the purchase price paid by the customer. IN NO EVENT SHALL BREEZE33 BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO PROPERTY) OR PUNITIVE DAMAGES, DAMAGES IN THE NATURE OF PENALTIES OR SIMILAR OR RELATED DAMAGES OF ANY KIND.

DISCLAIMER OF WARRANTIES

BREEZE33 EXPRESSLY DISCLAIMS ALL WARRANTIES, EXCEPT AS EXPLICITLY STATED HEREIN, TO THE FULLEST EXTENT PERMITTED BY LAW, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF PERFORMANCE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT. THIS DISCLAIMER INCLUDES ANY ORAL WARRANTIES OR REPRESENTATIONS MADE OR IMPLIED BY ANY AGENT, EMPLOYEE, SUBCONTRACTOR, MANAGER, DIRECTOR AND/OR REPRESENTATIVE OF BREEZE33.

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