

Specifications

Series	MVASW		Grille Color
M - Multi-Sized			W - White B - Black
Damper Option	Grille Style		Size
V - Volume Damper X - No Damper	2 - 2 way Grille 3 - 3 way Grille 4 - 4 way Grille	360 - Round Grille E - Exhaust Grille A - Antique Grille	S - (6x6) 4,5,6 inch collar blank - (8x8) 6,7,8 inch collar

MV2

(8x8) Ak=.33

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.006	.009	.014	.021	.027	.039	.053	.069	.108	.156	.212
Throw(F.T.)*1	4.9	6.7	8.0	9.8	11.1	13.4	15.6	17.8	22.3	26.7	31.2
Face Velocity(F.P.M.)*3	164	229	264	330	375	451	533	604	757	909	1060

MV2S

(6x6) Ak=.17

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.028	.054	.102	.145	.181	.245	.325	.43			
Throw(F.T.)*1	4.5	6.0	7.1	8.9	10.3	11.5	12.6	14.0			
Face Velocity(F.P.M.)*3	308	421	592	663	785	903	1045	1155			

MV3

(8x8) Ak=.29

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.008	.014	.020	.030	.038	.054	.073	.095	.148	.213	.289
Throw(F.T.)*1,2	5.0	6.8	8.1	9.9	11.3	13.5	15.8	18.0	22.5	27.0	31.5
Face Velocity(F.P.M.)*3	188	255	310	370	445	517	602	689	862	1034	1206

MV3S

(6x6) Ak=.17

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.056	.075	.13	.171	.23	.29	.445	.545			
Throw(F.T.)*1,2	5.3	7.2	8.8	10.2	11.1	11.5	12.1	12.8			
Face Velocity(F.P.M.)*3	344	426	570	661	785	880	994	1182			

MV4

(8x8) Ak=.30

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.007	.011	.017	.024	.030	.043	.057	.073	.114	.164	.223
Throw(F.T.)*1	3.9	5.3	6.4	7.8	8.9	10.6	12.4	14.2	17.7	21.3	24.8
Face Velocity(F.P.M.)*3	183	247	293	359	410	505	562	640	833	1000	1166

MV4S

(6x6) Ak=.20

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.05	.085	.117	.16	.2	.29	.395	.49			
Throw(F.T.)*1	4.5	6.3	7.1	8.2	9.1	10.2	10.9	11.5			
Face Velocity(F.P.M.)*3	330	361	440	527	605	750	875	962			

MV360

(8x8) Ak=.33

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.002	.003	.004	.005	.006	.010	.015	.021	.029	.038	.045
Throw(F.T.)*1	3.0	3.6	3.8	4.0	5.0	5.5	6.5	7.0	8.0	9.0	10.0
Face Velocity(F.P.M.)*3	161	223	269	328	381	449	527	612	755	904	1055

MV360S

(6x6) Ak=.27

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.006	.009	.014	.018	.025	.036	.045	.06			
Throw(F.T.)*1	.8	1.5	2.2	2.3	3.2	4.4	5.5	6.4			
Face Velocity(F.P.M.)*3	214	284	347	415	473	544	614	699			

MVE

MXE

(8x8) Ak=.37

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.0005	.0008	.0014	.0017	.002	.003	.005	.008	.02	.025	.03
Throw(F.T.)*1	.8	2.1	3.4	5.6	7.8	9.7	11.4	12.8	14.1	14.8	15.4
Face Velocity(F.P.M.)*3	92	151	207	255	350	445	545	700	910	1044	1187

MVES

MXES

(6x6) Ak=.31

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.008	.0018	.0035	.0043	.0054	.0085	.01	.011			
Throw(F.T.)*1	1.2	4.2	6.2	7.3	8.7	9.8	11.0	12.4			
Face Velocity(F.P.M.)*3	146	230	285	338	434	545	645	685			

MVAW

MVAB

(8x8) Ak=.26

CFM	55	75	90	110	125	150	175	200	250	300	350
Pressure Loss(W.G.)	.0007	.0009	.0021	.0055	.0064	.0085	.0105	.016	.023	.0391	.0552
Throw(F.T.)*1	4.0	6.8	8.2	9.9	11.3	12.9	14.3	15.3	16.0	17.2	17.9
Face Velocity(F.P.M.)*3	175	269	338	436	472	593	693	841	1031	1201	1315

MVASW

MVASB

(6x6) Ak=.20

CFM	55	75	90	110	125	150	175	200			
Pressure Loss(W.G.)	.0085	.0185	.024	.0375	.052	.073	.101	.12			
Throw(F.T.)*1	1.2	5.0	7.9	10.9	13.3	14.9	16.3	17.5			
Face Velocity(F.P.M.)*3	277	373	445	550	650	771	899	998			

*1- All throw measurements are made from the center of the grille to a terminal velocity of 50 Feet Per Minute.

*2- Throw Measurements are equal in all three directions +/-5%.

*3- Noise level of any diffuser is directly related to face velocity. As a general rule face velocity should be under 800 FPM for residential applications. The model M diffuser with its one piece molded design, outperforms comparable diffusers causing less turbulence and noise.

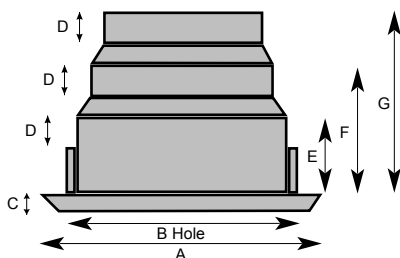
Note: Supply diameter has no appreciable effect on characteristics or airflow specifications, but should be consistent with the desired airflow of the particular outlet and application.

Instruments used in testing:

-Shortridge Instruments Flowhood Series 8400

-Shortridge Instruments Air data Multimeter

-Davis LCA-6000 Rotating Vane Anemometer



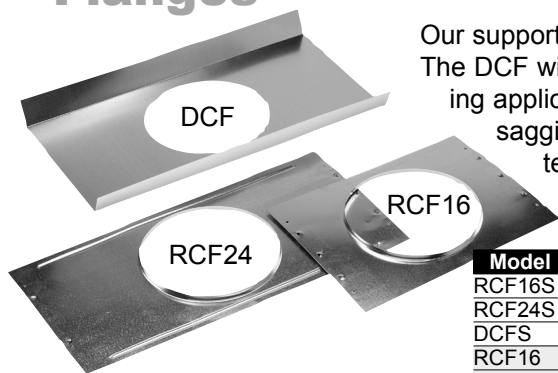
Dimensions

Model	Description	Dimensions in Inches							Cart Qty	List Price
		A	B	C	D	E	F	G		
MV2S	2 Way Assembly Small (6x6)	8 3/4	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	8	\$15.73
MV3S	3 Way Assembly Small (6x6)	8 3/4	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	8	\$15.73
MV4S	4 Way Assembly Small (6x6)	8 3/4	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	8	\$15.73
MV360S	Round Assembly Small (6x6)	9 3/8	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	6	\$15.73
MXES	Return/Exhaust No Damp Sm (6x6)	8 3/4	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	8	\$13.63
MVES	Return/Exhaust Assembly Sm (6x6)	8 3/4	7 1/8	5/8	1 3/8	3 1/4	5 1/4	7 1/4	8	\$15.73
MVASW	Antique Assembly Small White (6x6)	8 3/4	7 1/8	5/16	1 3/8	3 1/4	5 1/4	7 1/4	8	\$19.93
MVASB	Antique Assembly Small Black (6x6)	8 3/4	7 1/8	5/16	1 3/8	3 1/4	5 1/4	7 1/4	8	\$19.93
MV2	2 Way Assembly (8x8)	11 1/4	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$19.93
MV3	3 Way Assembly (8x8)	11 1/4	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$19.93
MV4	4 Way Assembly (8x8)	11 1/4	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$19.93
MV360	Round Assembly (8x8)	12 1/2	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$19.93
MXE	Return/Exhaust No Damp (8x8)	11 1/4	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$17.83
MVE	Return/Exhaust Assembly (8x8)	11 1/4	9 1/4	3/4	1 3/8	3 1/4	5 1/4	7 1/4	4	\$19.93
MVAW	Antique Assembly White (8x8)	11 1/4	9 1/4	5/16	1 3/8	3 1/4	5 1/4	7 1/4	4	\$24.13
MVAB	Antique Assembly Black (8x8)	11 1/4	9 1/4	5/16	1 3/8	3 1/4	5 1/4	7 1/4	4	\$24.13

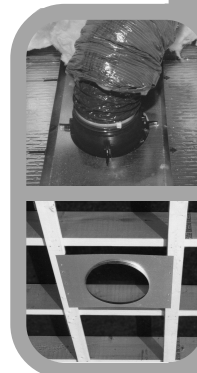
Flanges

Accessories

Our support flanges are easy to use and will make the rest of your job a snap. The DCF will dramatically increase strength and performance for lay in type ceiling applications by transferring weight onto T-bars. This will prevent tiles from sagging over time. The RCF, for use in new work applications, can be fastened to framing at the rough in stage. It has a 3/8" lip requiring dry wall installers to cut holes for you.



Model	Description	Length	Width	Height	Hole	Cart Qty	List Price
RCF16S	Rough in Flange 16" O/C Small	16	12	3/8	7	50	\$2.83
RCF24S	Rough in Flange 24" O/C Small	23 5/8	12	3/8	7	25	\$3.33
DCFS	Drop Ceiling Flange Small	23 5/8	12	2	7	25	\$3.33
RCF16	Rough in Flange 16" O/C	16	12	3/8	9 1/4	50	\$2.83
RCF24	Rough in Flange 24" O/C	23 5/8	12	3/8	9 1/4	25	\$3.33
DCF	Drop Ceiling Flange	23 5/8	12	2	9 1/4	25	\$3.33



GRD & GR

Designed to perform in areas where limited clearance makes it necessary to use a side entry ceiling box, this versatile diffuser is an attractive alternative to conventional metal registers. The GRD includes the same grille and air-tight damper found in our MV Series diffuser, but has an 8" collar instead of the adjustable boot. It comes with 4 powder coated self drilling screws.

Model	Description	Dimensions in Inches				Cart Qty	List Price
		A	B	C	D		
GRD2	2 Way Grille w/Damper	11 1/4	8	3/4	1 3/8	12	\$11.92
GRD3	3 Way Grille w/Damper	11 1/4	8	3/4	1 3/8	12	\$11.92
GRD4	4 Way Grille w/Damper	11 1/4	8	3/4	1 3/8	12	\$11.92
GRD360	Round Grille w/Damper	12 1/2	8	3/4	1 3/8	6	\$11.92
GRDE	Return/Exhaust Grl w/Damper	11 1/4	8	3/4	1 3/8	12	\$11.92
GRDAW	Antique Grl w/Damper White	11 1/4	8	5/16	1 3/8	12	\$16.12
GRDAB	Antique Grl w/Damper Black	11 1/4	8	5/16	1 3/8	12	\$16.12
GR2S	2 Way Grille only Small	8 3/4	N/A	5/8	N/A	25	\$3.36
GR3S	3 Way Grille only Small	8 3/4	N/A	5/8	N/A	25	\$3.36
GR4S	4 Way Grille only Small	8 3/4	N/A	5/8	N/A	25	\$3.36
GR360S	Round Grille only Small	9 3/8	N/A	5/8	N/A	15	\$3.36
GRES	Return/Exhaust Grille Sm	8 3/4	N/A	5/8	N/A	25	\$3.36
GRASW, GRASB	Antique Grl Sm White or Black	8 3/4	N/A	5/16	N/A	25	\$7.56
GR2	2 Way Grille only	11 1/4	N/A	3/4	N/A	25	\$4.91
GR3	3 Way Grille only	11 1/4	N/A	3/4	N/A	25	\$4.91
GR4	4 Way Grille only	11 1/4	N/A	3/4	N/A	25	\$4.91
GR360	Round Grille only	12 1/2	N/A	3/4	N/A	15	\$4.91
GRE	Return/Exhaust Grille	11 1/4	N/A	3/4	N/A	25	\$4.91
GRAW, GRAB	Antique Grl White or Black	11 1/4	N/A	5/16	N/A	25	\$9.11

