Airtec



Air Diffusion Catalog 2010

MV RETRO MV CLASSIC MH TUFFBOX POLYMER AIR DIFFUSERS
POLYMER AIR DIFFUSERS







HVAC Diffusers and accessories from Airtec

Reinventing HVAC ceiling diffusion.

With a patented one piece grille, box, damper combination and a lightning quick 73 second installation time, the **MV Series** of diffusers by Airtec is designed specifically for the job-site and the contractor. Compare the performance, fit, finish and the 80% reduction in installation time of our **MV Classic** to understand why they are quickly becoming the new industry standard.

For your premium installations and discriminating homeowners, **MV Retro** combines contemporary polymer construction with the appearance and feel of true antique cast iron styled diffusers, without the cost and weight.

Today, our evolution continues. Smart, strong **MH TuffBox** polymer register boxes and limited clearance polymer diffuser choices are proven to deliver quicker installation time and more job site options than their cumbersome metal counterparts.

We don't waste your time. We save you time and keep you ahead of your competitors. Go with Airtec, the leader in high-tech quick install polymer diffusers and accessories.



Our patented 73 second

IVIV Classic

GRILLE • DAMPER • BOX





3-way

Work smart.

"My distributor told me about the MV 73 second diffuser install. He gave me one to try. That was it. I haven't installed a metal diffuser since. The MV air diffuser is virtually air tight. The one piece design eliminates the need for tedious mastic and external sealers, and cuts attic time, too. Diffuser installation is no longer a two man job.

My labor estimates are more competitive



diffuser install is the quickest in the trade.





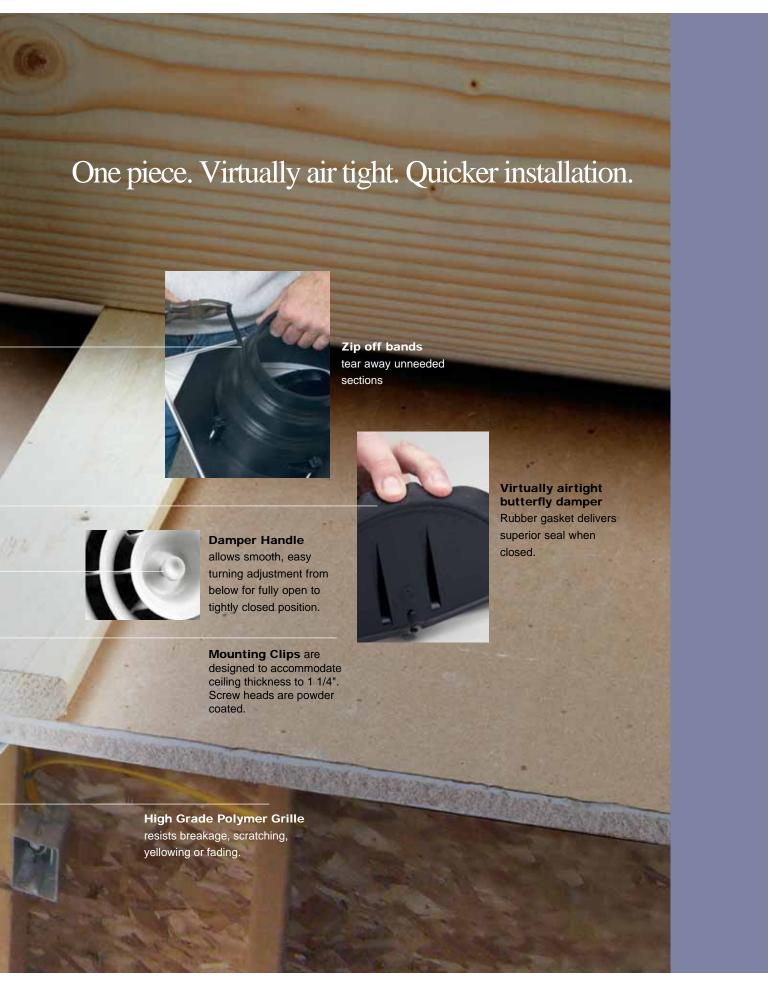
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Contact: Airlec Products Corp.

www.airtecproducts.com





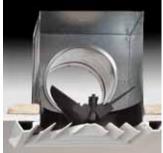


beautiful for your discriminating customer.



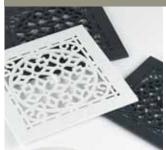
Limited clearance diffusers

GRILLE WITH DAMPER



Model GRD grille/damper combination for low clearance side or top entry applications. Same construction as MV diffusers but with no boot. Standard 8" size only. Available in all five grille styles.





Model GR grille only. All styles and sizes of both MV Classic and MV Retro grilles are available. Does not include boot or damper.



Ceiling support Flanges





MODEL	DESCRIPTION		w		CTN QTY	CTN WT
RCF16	16"O/C - 91/4"hole	16"	12"	3/8"	50	37 lbs.
RCF24	24"O/C - 91/4"hole	235/8"	12"	3/8"	25	38 lbs.
RCF16S	16"O/C - 7"hole	16"	12"	3/8"	50	48 lbs.
RCF24S	24"O/C - 7"hole	235/8"	12"	3/8"	25	39 lbs.

DROP CEILING FLANGES



Model DCF
The DCF will increase
strength and performance
for lay in type ceiling
applications by transferring
weight onto the T-bars.
This prevents tiles from

sagging over time.

MODEL	DESCRIPTION		W		CTN QTY	CTN WT
DCF	24"O/C - 91/4"hole	235/8"	12"	2"	25	45 lbs.
DCFS	24"O/C - 7"hole	235/8"	12"	2"	25	48 lbs.

Diffuser ordering information



MV Classic standard 8x8" diffuser assembly

MODEL	DESCRIPTION	CTN QTY	CTN WT		
MV2	2-way grille/damper/box	4	9 lbs		
MV3	3-way grille/damper/box	4	9 lbs		
MV4	4-way grille/damper/box	4	9 lbs		
MV360	Round grille/damper/box	4	9 lbs	1 3/8	6"
MVE	Return/exhaust grille/damper/box	4	9 lbs	1.00	7"
MXE	Return/exhaust grille/box (no damper)	4	9 lbs	1 3/8	* / — / —
/IV Retro	standard 8x8" diffuser assembly			1 3/8	8"8"
MODEL	DESCRIPTION	CTN QTY	CTN WT	_	
MVAW	Retro White grille/damper/box	4	9 lbs		WOLE 0.1/4/

9 lbs

MV Classic small 6x6" diffuser assembly

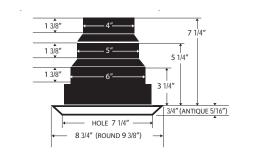
Retro Black grille/damper/box

MVAB

MODEL	DESCRIPTION	CTN QTY	CTN WT
MV2S	2-way grille/damper/box	8	10.5 lbs
MV3S	3-way grille/damper/box	8	10.5 lbs
MV4S	4-way grille/damper/box	8	10.5 lbs
MV360S	Round grille/damper/box	6	7.5 lbs
MVES	Return/exhaust grille/damper/box	8	10.5 lbs
MXES	Return/exhaust grille/box (no damper)	8	10.5 lbs
	•		

MV Retro small 6x6" diffuser assembly

MODEL	DESCRIPTION	CTN QTY	CTN WT
MVASW	Retro White grille/damper/box	8	10.5 lbs
MVASB	Retro Black grille/damper/box	8	10.5 lbs



- 11 1/4" (ROUND 12 1/2")

Limited clearance grille/damper

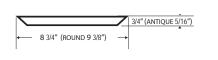
MODEL	DESCRIPTION	CTN QTY	CTN WT	
GRD2	2-way grille/damper	12	15.8 lbs	
GRD3	3-way grille/damper	12	15.8 lbs	
GRD4	4-way grille/damper	12	15.8 lbs	
GRD360	Round grille/damper	6	7.7 lbs	1.010//
GRDE	Return/exhaust grille/damper	12	15.8 lbs	1 3/8"
GRDAW	Retro grille/damper (white)	12	15.8 lbs	3/4" (ANTIQUE 5/16")
GRDAB	Retro grille/damper (black)	12	15.8 lbs	HOLE 8" → HOLE

Standard Limited clearance grille only

MODEL	DESCRIPTION	CTN QTY	CTN WT
GR2	2-way grille	25	15.5 lbs
GR3	3-way grille	25	15.5 lbs
GR4	4-way grille	25	15.5 lbs
GR360	Round grille	15	9.0 lbs
GRE	Return/exhaust grille	25	15.5 lbs
GRAW	Retro grille (white)	25	11.5 lbs
GRAB	Retro grille (black)	25	11.5 lbs

Small limited clearance grille only

MODEL	DESCRIPTION	CTN QTY	CTN WT	
GR2S	2-way grille small	25	10.5 lbs	
GR3S	3-way grille small	25	10.5 lbs	
GR4S	4-way grille small	25	10.5 lbs	
GR360S	Round grille small	15	6.5 lbs	
GRES	Return/exhaust grille small	25	9.0 lbs	
GRASW	Retro grille small (white)	25	9.0 lbs	
GRASB	Retro grille small (black)	25	9.0 lbs	



Diffuser air flow specifications

MV2 (8x8") Ak=.33

MV2S (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.006 wg	4.9 ft	164 ft/min
75	.009 wg	6.7 ft	229 ft/min
90	.014 wg	8.0 ft	264 ft/min
110	.021 wg	9.8 ft	330 ft/min
125	.027 wg	11.1 ft	375 ft/min
150	.039 wg	13.4 ft	451 ft/min
175	.053 wg.	15.6 ft	533 ft/min
200	.069 wg	17.8 ft	604 ft/min
250	.108 wg	22.3 ft	757 ft/min
300	.156 wg	26.7 ft	909 ft/min
350	.212 wg	31.2 ft	1060 ft/min



CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.028 wg	4.5 ft	308 ft/min
75	.054 wg	6.0 ft	421 ft/min
90	.102 wg	7.1 ft	592 ft/min
110	.145 wg	8.9 ft	663 ft/min
125	.181 wg	10.3 ft	785 ft/min
150	.245 wg	11.5 ft	903 ft/min
175	.325 wg.	12.6 ft	1045 ft/min
200	.430 wg	14.0 ft	1155 ft/min

MV3 (8x8") Ak=.29

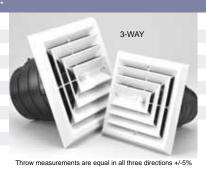
MV3S (6x6") Ak=.17

55

PRESSURE LOSS

.056 wg

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY
55	.008 wg	5.0 ft	188 ft/min
75	.014 wg	6.8 ft	255 ft/min
90	.020 wg	8.1 ft	310 ft/min
110	.030 wg	9.9 ft	370 ft/min
125	.038 wg	11.3 ft	445 ft/min
150	.054 wg	13.5 ft	517 ft/min
175	.073 wg.	15.8 ft	602 ft/min
200	.095 wg	18.0 ft	689 ft/min
250	.148 wg	22.5 ft	862 ft/min
300	.213 wg	27.0 ft	1034 ft/min
350	.289 wg	31.5 ft	1206 ft/min



00	.000 110	0.0 10	0 1 1 10111111	
75	.075 wg	7.2 ft	426 ft/min	
90	.130 wg	8.8 ft	570 ft/min	
110	.171 wg	10.2 ft	661 ft/min	
125	.230 wg	11.1 ft	785 ft/min	
150	.290 wg	11.5 ft	880 ft/min	
175	.445 wg.	12.1 ft	994 ft/min	
200	.545 wg	12.8.ft	1182 ft/min	

5.3 ft

344 ft/min

MV4 (8x8") Ak=.30

MV4S (6x6") Ak=.20

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY
55	.007 wg	3.9 ft	183 ft/min
75	.011 wg	5.3 ft	247 ft/min
90	.017 wg	6.4 ft	293 ft/min
110	.024 wg	7.8 ft	359 ft/min
125	.030 wg	8.9 ft	410 ft/min
150	.043 wg	10.6 ft	505 ft/min
175	.057 wg.	12.4 ft	562 ft/min
200	.073 wg	14.2 ft	640 ft/min
250	.114 wg	17.7 ft	833 ft/min
300	.164 wg	21.3 ft	1000 ft/min
350	.223 wg	24.8 ft	1166 ft/min



CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.050 wg	4.5 ft	330 ft/min
75	.085 wg	6.3 ft	361 ft/min
90	.117 wg	7.1 ft	440 ft/min
110	.160 wg	8.2 ft	527 ft/min
125	.200 wg	9.1 ft	605 ft/min
150	.290 wg	10.2 ft	750 ft/min
175	.395 wg.	10.9 ft	875 ft/min
200	.490 wg	11.5 ft	962 ft/min

MV360 (8x8") Ak=.33

MV360S (6x6") Ak=.17

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.002 wg	3.0 ft	161 ft/min
75	.003 wg	3.6 ft	223 ft/min
90	.004 wg	3.8 ft	269 ft/min
110	.005 wg	4.0 ft	328 ft/min
125	.006 wg	5.0 ft	381 ft/min
150	.010 wg	5.5 ft	449 ft/min
175	.015 wg.	6.5 ft	527 ft/min
200	.021 wg	7.0 ft	612 ft/min
250	.029 wg	8.0 ft	755 ft/min
300	.038 wg	9.0 ft	904 ft/min
350	.045 wg	10.0 ft	1055 ft/min



CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.006 wg	0.8 ft	214 ft/min
75	.009 wg	1.5 ft	284 ft/min
90	.014 wg	2.2 ft	347 ft/min
110	.018 wg	2.3 ft	415 ft/min
125	.025 wg	3.2 ft	437 ft/min
150	.036 wg	4.4 ft	544 ft/min
175	.045 wg.	5.5 ft	614 ft/min
200	.060 wg	6.4 ft	699 ft/min

^{*}All throw measurements are made from the center of the grille to a terminal velocity of 50 feet per minute. Direction determined by grille profile. .

^{**}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 MV diffuser with its one piece molded design, outperforms comparable diffusers causing less turbulence and noise.

MVE (8x8") Ak=.37 MVES (6x6") Ak=.31

	PRESSURE LOSS	THROW*	FACE VELOCITY**				
	.0005 wg	0.8 ft	92 ft/min		55	.0008 wg	1.2 ft
5	.0008 wg	2.1 ft	151 ft/min	1-WAY	75	.0018 wg	4.2 ft
90	.0014 wg	3.4 ft	207 ft/min		90	.0035 wg	6.2 ft
10	.0017 wg	5.6 ft	255 ft/min	A ====	110	.0043 wg	7.3 ft
25	.0020 wg	7.8 ft	350 ft/min		125	.0054 wg	8.7 ft
50	.0030 wg	9.7 ft	445 ft/min		150	.0085 wg	9.8 ft
75	.0050 wg.	11.4 ft	545 ft/min		175	.0100 wg.	11.0 ft
00	.0080 wg	12.8 ft	700 ft/min		200	.0110 wg	12.4 ft
50	.0200 wg	14.1 ft	910 ft/min				
00	.0250 wg	14.8 ft	1044 ft/min				
50	.0300 wg	15.4 ft	1187 ft/min				

MXE (8x8") Ak=.37

MXES (6x6") Ak=.31

CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0005 wg	0.8 ft	92 ft/min		55	.0008 wg	1.2 ft	146 ft/min
75	.0008 wg	2.1 ft	151 ft/min	EXHAUST	75	.0018 wg	4.2 ft	230 ft/min
90	.0014 wg	3.4 ft	207 ft/min		90	.0035 wg	6.2 ft	285 ft/min
110	.0017 wg	5.6 ft	255 ft/min	A ====	110	.0043 wg	7.3 ft	338 ft/min
125	.0020 wg	7.8 ft	350 ft/min		125	.0054 wg	8.7 ft	434 ft/min
150	.0030 wg	9.7 ft	445 ft/min		150	.0085 wg	9.8 ft	545 ft/min
175	.0050 wg.	11.4 ft	545 ft/min		175	.0100 wg.	11.0 ft	645 ft/min
200	.0080 wg	12.8 ft	700 ft/min		200	.0110 wg	12.4 ft	685 ft/min
250	.0200 wg	14.1 ft	910 ft/min					
300	.0250 wg	14.8 ft	1044 ft/min					
350	.0300 wg	15.4 ft	1187 ft/min					

MVAW (8x8") Ak=.26

MVASW (6x6") Ak=.20

VI	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	
55	.0007 wg	4.0 ft	175 ft/min		55	.0085 wg	2.1 ft	
' 5	.0009 wg	6.8 ft	269 ft/min	1-WAY	75	.0185 wg	5.0 ft	
0	.0021 wg	8.2 ft	383 ft/min	ToT 9300	90	.0240 wg	7.9 ft	
10	.0055 wg	9.9 ft	436 ft/min	(SAC)	110	.0375 wg	10.9 ft	
25	.0064 wg	11.3 ft	472 ft/min	The state of the s	125	.0520 wg	13.3 ft	
50	.0085 wg	12.9 ft	593 ft/min	12803200	150	.0730 wg	14.9 ft	
75	.0105 wg.	14.3 ft	693 ft/min	V-18-18-18-18-18-18-18-18-18-18-18-18-18-	175	.1010 wg.	16.3 ft	
200	.0160 wg	15.3 ft	841 ft/min		200	.1200 wg	17.5 ft	
250	.0230 wg	16.0 ft	1031 ft/min	Service Services	35/			
300	.0391 wg	17.2 ft	1201 ft/min		31			
350	.0552 wg	17.9.ft	1315 ft/min					

MVAB (8x8") Ak=.26

MVASB (6x6") Ak=.20

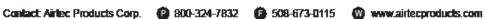
CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**		CFM	PRESSURE LOSS	THROW*	FACE VELOCITY**
55	.0007 wg	4.0 ft	175 ft/min		55	.0085 wg	2.1 ft	277 ft/min
75	.0009 wg	6.8 ft	269 ft/min	1-WAY	75	.0185 wg	5.0 ft	373 ft/min
90	.0021 wg	8.2 ft	383 ft/min	1707.93050	90	.0240 wg	7.9 ft	445 ft/min
110	.0055 wg	9.9 ft	436 ft/min	3600	110	.0375 wg	10.9 ft	550 ft/min
125	.0064 wg	11.3 ft	472 ft/min	SARE ESCENTION	125	.0520 wg	13.3 ft	650 ft/min
150	.0085 wg	12.9 ft	593 ft/min	1 27.650 (35.55)	150	.0730 wg	14.9 ft	771 ft/min
175	.0105 wg.	14.3 ft	693 ft/min		175	.1010 wg.	16.3 ft	899 ft/min
200	.0160 wg	15.3 ft	841 ft/min		200	.1200 wg	17.5 ft	988 ft/min
250	.0230 wg	16.0 ft	1031 ft/min	TO THE PERSON OF				
300	.0391 wg	17.2 ft	1201 ft/min	1924				
350	.0552 wg	17.9.ft	1315 ft/min					

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









Quick rough-in poly

IVIH TuffBox

REGISTER BOX



Strong and Silent.

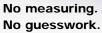
Our TuffBox is a heavy, one piece durable polymer shell. Molded design is virtually air tight to deliver 100% of the air flow passing through it.

MHL

9"

8"

10"



5/8" standoffs provide correct depth to accommodate strapping or furring used with drywall. Secure using screw holes provided or simply screw anywhere through the inside into framing. The TuffBox tough polymer construction can take it!



mer register box for HVAC systems.



Airtec

HVAC PRODUCT LINE



Air Diffusion Catalog #BRAIR

MV RETRO

MV CLASSIC POLYMER AIR DIFFUSERS POLYMER AIR DIFFUSERS MH TUFFBOX REGISTER BOXES



Lineset Protection Catalog #BRLPF

FORTRESS NOVENT

LINESET DUCTING SYSTEM LOCKING REFRIGERANT CAPS



Condensate Management Catalog #BRCON

EZ TRAP

ASPEN | CONDENSATE PUMPS TRAPS & OVERFLOW SWITCHES AIRTEC DRAIN HOSES & FITTINGS



Equipment Mounting Catalog #BREQM

BIG FOOT

CONDENSER BRACKETS & RISERS FLAT ROOF SYSTEMS



Minisplit Accessories Catalog #BRMSC

FORTRESS **NOVENT ASPEN** AIRTEC **AIRTEC**

BIG FOOT

LINESET DUCTING SYSTEM LOCKING REFRIGERANT CAPS CONDENSATE PUMPS DRAIN HOSES & FITTINGS CONDENSER BRACKETS & RISERS FLAT ROOF SYSTEMS

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