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2655 Airport Rd. • Santa Teresa • NM • 88008 • Ph 505.589.2130 • Fx 505.589.2608

GRAVITY VENTILATOR ACCESSORIES

STANDARD FEATURES

Mallory Metal Products RV-10 relief ventilators are designed to function efficiently as positive pressure relief outlets or, as discharge hoods for power systems. Featuring a 1:1 hood free area to throat area ratio, exhaust ventilators provide an economical, yet particularly pleasing, low-silhouette weather proof outlet.

Mallory Metal Products IV-20 ventilators feature enlarged hoods to provide a 2:1 hood free area to throat area ratio. Normally used as fresh air intakes, enlarged hood design reduces intake velocities while maintaining high capacities at low static pressures. IV-20 can be used in exhaust applications where pressures must be kept at a minimum.

Ventilators are constructed of galvanized steel or aluminum, and are available in both square and rectangular throat configurations within a wide range of sizes. Full perimeter hood free area ensures uniform velocities at minimal static pressure. Hood tops are pitched and cross broken on larger hoods to prevent oil canning and to provide adequate runoff. Hood seams are intermittent welded standing seams, caulked on interior for weather tightness. Base and throat are solid sealed welded and internally reinforced. Integral angle bracing in hood and throat provides stability and strength to withstand wind pressure and snow loads.

STANDARD CONSTRUCTION

- Galvanized or aluminum material
- 1/2" mesh galvanized Birdscreen
- Curb mount or self flashing base

- Mill finish

OPTIONS

- Stainless steel construction
- Aluminum insect screen / birdscreen
- Back-draft dampers
- Custom sizes
- Custom finishes and coatings
- Pre-fabricated curbs

REQUIRED THROAT AREA - (SQ. FT)

THROAT VELOCITY (FPM)	AIR FLOW - (CFM)																
	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	12000	14000	16000	18000	20000	25000	30000
300	303	6.7	10.0	13.3	16.7	20.0	23.3	26.7	30.0	33.3	40.0	46.7	53.3	60.0	66.7	83.3	100.0
400	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	30.0	35.0	40.0	45.0	50.0	62.5	75.0
500	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	24.0	28.0	32.0	36.0	40.0	50.0	60.0
600	1.7	3.3	5.0	6.7	8.3	10.0	11.7	13.3	15.0	16.7	20.0	23.3	26.7	30.0	33.3	41.7	50.0
700	1.4	2.9	4.3	5.7	7.1	8.6	10.0	11.4	12.9	14.3	17.1	20.0	22.9	25.7	28.6	35.7	42.9
800	1.2	2.5	3.8	5.0	6.2	7.5	8.8	10.0	11.2	12.5	15.0	17.5	20.0	22.5	25.0	31.2	37.5
900	1.1	2.2	3.3	4.4	5.6	6.7	7.8	8.9	10.0	11.1	13.3	15.6	17.8	20.0	22.2	27.8	33.3
1000	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0	25.0	30.0
1100	.9	1.8	2.7	3.6	4.5	5.5	6.4	7.3	8.2	9.1	10.9	12.7	14.5	16.4	18.2	22.7	27.3
1200	.8	1.7	2.5	3.3	4.2	5.0	5.0	6.7	7.5	8.3	10.0	11.7	13.3	15.0	16.7	20.8	25.0

REQUIRED THROAT AREA - (SQ. FT)

THROAT VELOCITY (FPM)	Hood Free Area 100% x (throat area)			Hood Free Area 200% x (throat area)		
	Hood Velocity	Static Pressure		Hood Velocity	Static Pressure	
		Intake	Exhaust		Intake	Exhaust
300	300	.013	.015	150	.005	.002
400	400	.024	.024	200	.012	.004
500	500	.040	.031	250	.022	.007
600	600	.057	.044	300	.034	.011
700	700	.084	.060	350	.050	.017
800	800	.107	.080	400	.066	.025
900	900	.138	.105	450	.086	.035
1000	1000	.175	.132	500	.106	.045
1100	1100	.218	.164	550	.128	.057
1200	1200	.241	.197	600	.152	.069

Intake hood velocities over 600 FPM not recommended.

NOTES

1. Series RV-10 relief units can be used as intake provided hood velocities are kept to 600 FPM maximum.
2. Increase throat area by 10% when using back draft dampers.
3. Increase throat area by 15% when using insect screens