

# DOMAIR

*A New Wave In Air Movement*



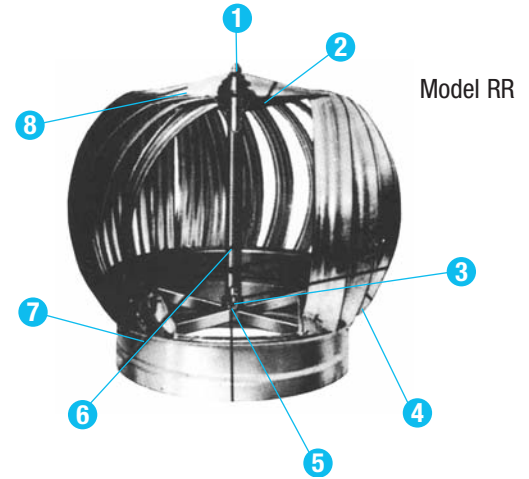
## **MODEL RR Rotary Turbine Ventilator**

Exhaust Applications

# The VENTILATOR with all the PLUS Features

## FEATURES

1. Heavy-duty ball bearings on sizes 16" to 48"; self-lubricating nylon on smaller sizes
2. Double cap assures permanent alignment and stability under severest conditions
3. Locked-on rotor mechanism prevents loss of damage in high winds, easy to remove
4. Corrugated die pressed vane provide more strength, stability and uniformity
5. Oil impregnated sintered radial bearings assure quiet operation and longer life
6. Sealed bearing housing excludes dust, grit and foreign matter, and retains lubricant
7. Hot dipped galvanized steel per federal specification number QQ1716-2, Class DI
8. Finish coat of enamel provides eye appeal plus greater protection



## HOW TO SPECIFY SIZE AND NUMBER

1. Figure cubic feet in space to be ventilated
2. Determine rate of air exchange (see below)
3. Divide cubic feet of air space by number of minutes required for air change (see below). Result is cubic feet of air to be exhausted per minute.
4. Recommended ventilator spacing is 20ft. or in industrial buildings one or more ventilators per bay, depending on building width
5. Divide results of #3 by number of ventilators you propose to use. Then turn the capacity data to determine size ventilator to specify

## ROMLAIR ROTARY TURBINE SELECTION

In order to determine the exhaust capacity of any model ROMLAIR Rotary Ventilator under varying conditions of wind velocity, temperature difference between inside and outside air, and height of ventilator above intake (windows, doors, etc.) the table below may be used. The determined exhaust capacity of various sizes under conditions considered to be average, merely use 5 MPH row, 10 degree temperature difference, and 30 foot stack height. All capacities are based on formulas outline in the ASHRAE Guide.

## RECOMMENDED PERIODS OF AIR CHANGE FOR VARIOUS TYPES OF BUILDINGS

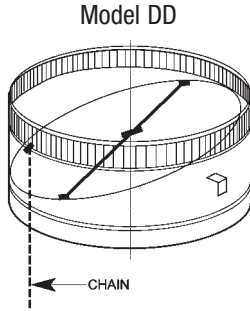
Types of Buildings	Minute Air Changes
Assembly Halls	2 – 10
Attics	2 – 4
Auditoriums	4 – 15
Bakeries	1 – 5
Banks	3 – 10
Bars	1 – 5
Beauty Salons	4 – 10
Boiler Rooms	1 – 4
Bowling Alleys	2 – 6
Box Annealing	2 – 5
Breweries	2 – 8
Churches	4 – 15
Classrooms	3 – 8
Corridors	3 – 8
Dry Cleaners	2 – 5
Dining rooms	1 – 5
Engine Rooms	10 – 15
Factories (Light Manufacturing)	1 – 2
Factories (Heavy Manufacturing)	2 – 8
Forge Shops	2 – 6
Foundries	5 – 8
Garages	1/2 – 1
Glass Plants	1 – 3
Gymnasiums	2 – 3
Heat Treating	3 – 6
Kitchens	2 – 8
Laundries	2 – 5
Machine Shops	1 – 6
Offices	1 – 2
Packing Houses	1 – 2

Stack Height	Wind Speed	Temp. Diff.	CFM Ratings													
			Model RR Throat Diameters													
			6	8	10	12	14	16	18	20	24	30	36	42	48	
10	4	10	81	144	224	323	440	575	727	896	1290	2018	2905	3945	5178	
		20	83	149	234	334	455	595	752	926	1334	2086	3004	4080	5355	
		30	88	157	244	352	479	627	793	977	1406	2200	3167	4300	5644	
	5	10	96	172	268	385	525	687	870	1070	1541	2410	3471	4713	6186	
		20	98	174	271	390	533	697	881	1085	1564	2445	3520	4781	6275	
		30	104	186	289	410	567	742	938	1155	1664	2602	3747	5088	6678	
	8	10	144	257	400	576	786	1028	1299	1600	2305	3603	5189	7046	9248	
		20	146	261	407	586	798	1044	1320	1626	2342	3663	5274	7162	9400	
		30	148	264	410	591	806	1054	1333	1642	2364	3677	5324	7229	9488	
	10	10	178	317	494	711	970	1268	1604	1975	2845	4448	6405	8690	11416	
		20	182	325	506	729	994	1301	1644	2025	2817	4561	6568	8918	11705	
		30	186	332	517	746	1016	1326	1678	2071	2983	4655	6715	9139	11875	
20	4	10	83	149	232	334	455	595	752	926	1334	2086	3004	4080	5355	
		20	97	173	269	388	529	692	874	1077	1551	2426	3493	4742	6224	
		30	99	177	276	398	543	710	897	1105	1592	2489	3584	4867	6388	
	5	10	98	174	271	390	533	697	881	1085	1564	2445	3520	4781	6275	
		20	101	180	281	404	551	721	912	1123	1617	2529	3641	4944	6489	
		30	105	188	293	422	576	753	952	1172	1689	2641	3804	5165	6779	
	8	10	146	261	407	586	798	1044	1320	1626	2342	3663	5274	7162	9400	
		20	151	270	420	604	824	1078	1363	1678	2418	3781	5444	7392	9702	
		30	164	293	456	656	895	1170	1480	1822	2625	4105	5911	8026	10534	
	10	10	182	325	506	729	994	1301	1644	2025	2917	4561	6568	8918	11705	
		20	187	334	520	749	1021	1336	1689	2080	2996	4684	6745	9158	12020	
		30	194	347	540	777	1059	1386	1752	2158	3109	4861	7000	9504	12474	
30	4	10	88	157	244	352	479	627	793	977	1406	2200	3167	4300	5644	
		20	99	177	276	318	543	710	897	1105	1592	2489	3584	4867	6388	
		30	111	198	308	444	606	792	1002	1234	1777	2779	4002	5434	7132	
	5	10	104	186	289	416	567	742	938	1155	1664	2602	3747	5088	6678	
		20	105	188	293	422	576	753	952	1172	1689	2640	3804	5165	6779	
		30	122	218	339	488	666	871	1101	1356	1953	3054	4398	5971	7837	
	8	10	148	264	410	591	806	1054	1333	1642	2364	3697	5324	7229	9488	
		20	164	293	456	656	895	1170	1480	1822	2625	4105	5911	8026	10534	
		30	170	303	472	680	927	1212	1533	1888	2719	4252	6123	8314	10912	
	10	10	186	332	517	746	1016	1326	1778	2072	2983	4655	6715	9139	11875	
		20	194	347	540	77	1059	1386	1752	2172	3109	4861	7000	9504	12474	
		30	197	351	547	787	1074	1404	1775	2189	3149	4925	7091	9629	12638	

# ACCESSORIES

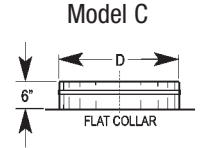
## UNIT DISC DAMPERS

Disc dampers are available as shown. Each standard unit is counter weighted and supplied with six feet of chain. An optional fusible link can be installed in the chain allowing the damper to open in the case of fire. Extra chain is also available.

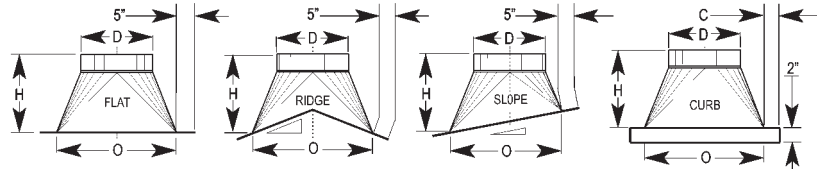


## BASES

Square to Round Bases are required for Turbo and Stationary ventilators and are available in slope, ridge, curb or flat types. Flat Collar Bases are available at slightly lower costs, however if adaptations must be made, other than flat, it is more economical to use the square to round type.



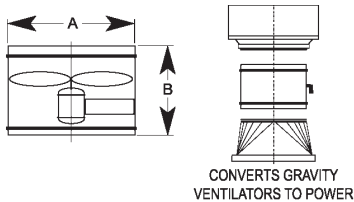
### Model B Bases



Base type and roof pitch must be specified when ordering (i.e. B-12 ridge 4" in 12" pitch)

## MODEL RDF DUCT FAN

Romlair Auxiliary duct fan is designed primarily to convert existing round gravity ventilators to power. Easily installed between ventilator and base without cutting roof structure. Units are wired to an external weatherproof conduit box ready for electrical.



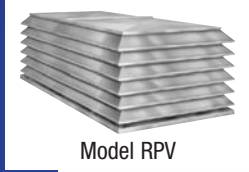
Dimensions and Gauges											
Bases											
Model (D)	Q. Sq.	H	C	Galv. Gauge	Alum. Gauge	Model (D)	Q. Sq.	H	C	Galv. Gauge	Alum. Gauge
B6	10	6	2	26	.032	B24	30	11	2	24	.040
B8	12	6	2	26	.032	B30	36	13	2	22	.040
B10	14	7	2	26	.032	B36	42	15	2	22	.040
B12	16	7	2	26	.032	B42	48	15	2	20	.050
B14	18	8	2	26	.032	B48	54	15	2	20	.050
B16	20	8	2	26	.032	B54	60	18	2	18	.063
B18	22	9	2	24	.032	B60	66	19	2	18	.063
B20	24	9	2	24	.032	B72	78	21	2	18	.063

RDF Specifications							
Model	HP	RPM	C.F.M. Capacities			Inches	
			0" SP	1/8" SP	1/4" SP	A	B
RDF10A	1/40	1550	336	222	-	10	10
RDF12A	1/40	1550	460	304	-	12	12
RDF12B	1/20	1550	610	420	-	12	12
RDF14A	1/40	1550	660	510	430	14	12
RDF14B	1/20	1550	950	735	620	14	12
RDF16A	1/20	1550	1120	835	705	16	15
RDF16B	1/8	1140	1420	1045	895	16	15
RDF18A	1/8	1140	1620	1545	1450	18	18
RDF18B	1/4	1750	2550	2345	2195	18	18
RDF20A	1/6	1140	2280	2115	1990	20	18
RDF20B	1/4	1140	2920	2730	2570	20	18
RDF24A	1/6	1140	2510	2345	2265	24	18
RDF24B	1/4	1140	3260	3000	2870	24	18

Dimensions and Gauges							
Turbo Ventilators							
Model	Galv. Gauge	Width	Height	Model	Galv. Gauge	Width	Height
RR6	26	10	11-3/4	RR20	24	26-3/8	24-1/2
RR8	26	12-1/2	13	RR24	24	32	29
RR10	26	14-1/2	14-1/2	RR30	22	39	32
RR12	24	16-3/8	15-1/2	RR36	22	46	38
RR14	24	18-5/8	17-1/2	RR42	20	52	40
RR16	24	21-3/4	20	RR48	20	58	41
RR18	24	23-3/4	22-1/2				

## VENTILATION LINE

Romla Ventilator offers a very comprehensive warehouse ventilation line. From the intake louvers in the wall to the power roof ventilators on the roof, Romlair can provide all the products to efficiency move the air flow in your facility.



Model RPV

**MODEL RPV** – Extruded aluminum louvered penthouse features low silhouette architecturally appealing styling for exhaust relief or air intake ventilation.



Model RSV

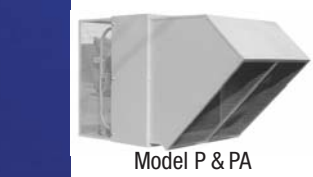
**MODEL RSV** – Is a spun aluminum roof mounted gravity ventilator to be used on intake or relief applications. Attractive low silhouette design harmonizes with modern building design.



Model VBO & VBO-HV

**MODEL VBO-HV** – Available with U.L. Listing for “Power Ventilators For Smoke Control Systems”. Heat and smoke exhauster is designed to meet the high temperature requirements of the Uniform Fire Code and IRI recommendations. Independently tested to operate without failure at 500°F for a minimum of 4 hours, and 1,000°F for a minimum of 15 minutes.

**MODEL VBO** – Heavy-duty vertical discharge power roof exhauster operates reliably in hostile environments. Motor, belts and bearings are outside of the airstream.



Model P & PA

**SIDEWALL FAN WITH HOUSING** – Model P, PA & PS Panel fan available in sizes 24” to 72”, with high air volumes up to 100,000 cfm. Accessories include Wall Housings, Wall collar, Dampers, Motor Side Guard, Weatherhood, and special coatings.



Model HFS

**HOODED SUPPLY AND EXHAUST FANS** – Model H Series power roof ventilators available in sizes 24” thru 72”, 2,500 cfm to 60,000 cfm. The model HFS features 2” washable filters.

**WALL LOUVERS-GRAVITY INTAKE VENTILATORS** – High performance wall louvers, and hooded gravity ventilators to provide air intake or relief.

## 1 YEAR WARRANTY

The Romla Ventilator Company warrants this equipment to be free from defects in material and workmanship under normal use and service for a period of one year from date of delivery. During the warranty period if any parts prove to be defective, they will be repaired or replaced free of charge at factory option: If upon receipt of written authorization they are delivered prepaid to the factory. This guarantee does not cover any damage caused by neglect of lubrication, accident or overload, improper installation, nor does it cover the cost of repairs made or attempted outside the factory, without authorization from Romla Co. Electric Motors are guaranteed only to the extent of the motor manufacturer’s warranty.

Romla Co. is not responsible for the cost of removal of the defective product or part, or the installation of the repaired or replaced product or part. Correction of any verified defects by repair or replacement shall constitute fulfillment of this warranty.

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