

RB-DV series of rotary three lobe PD blowers can operate at high vacuum levels thanks to a **ROBUSCHI patented device that injects atmospheric air**.

The new patented device allows the blower to operate at maximum vacuum without overheating.

RB-DV series blowers can reach vacuum levels of up to **93% on a dead head - 28" Hg** without the need to water inject or uses an upstream heat exchanger. Consequently lowering installation and operating costs.

Main blowers features are:

- **Vacuum rate up to 93% (blank off) - 28" Hg and 90% -27" Hg continuous;**
- **Nominal capacity from 840 to 10.500 m3/h - from 494 CFM to 6200 CFM;**
- Gases and vapours can be handled;
- Lack of sliding parts, reduces wear;
- Safe operation environmentally friendly;
- No oil mist;
- **Available RB-DV in ATEX version on request.**



APPLICATIONS

RB-DV series blowers are selected by applications requiring vacuum levels greater than 50% or 15" Hg (for applications requiring vacuum 0-50% / 0-15"Hg see ROBUSCHI RBS P.D. Blowers).

RB-DV series blowers are used in the following applications:

- Vacuum trucks handling wet and/or dry waste (Industry, Municipalities etc...);
- Pneumatic conveying (Ash transport, Chemicals, Pharmaceuticals industry etc...);
- Central vacuum systems (Packaging, Vacuum cleaning etc...);
- Deaeration plants (Plastic extrusion, Brick production, etc...).

Available complete and compact groups for truck applications (TRB-DV).

Helical gears provide near noiseless smooth and synchronized operation.

Heavy duty rotor and shaft assemblies safely allows operation at higher rpms providing outstanding performance.

Labyrinth piston ring provides low wear.

Heavy duty bearing for belt or gear transmission.

Heavy duty bearings allow greater flexibility setting up belt or close coupled transmission.

Double ended oil bath lubrication ensures long bearing life.

Patent tri (3) lobe rotors with ROBUSCHI high performance profile (**Low Pulse**).

Patent air injection nozzle ensures cool operation under all vacuum conditions.

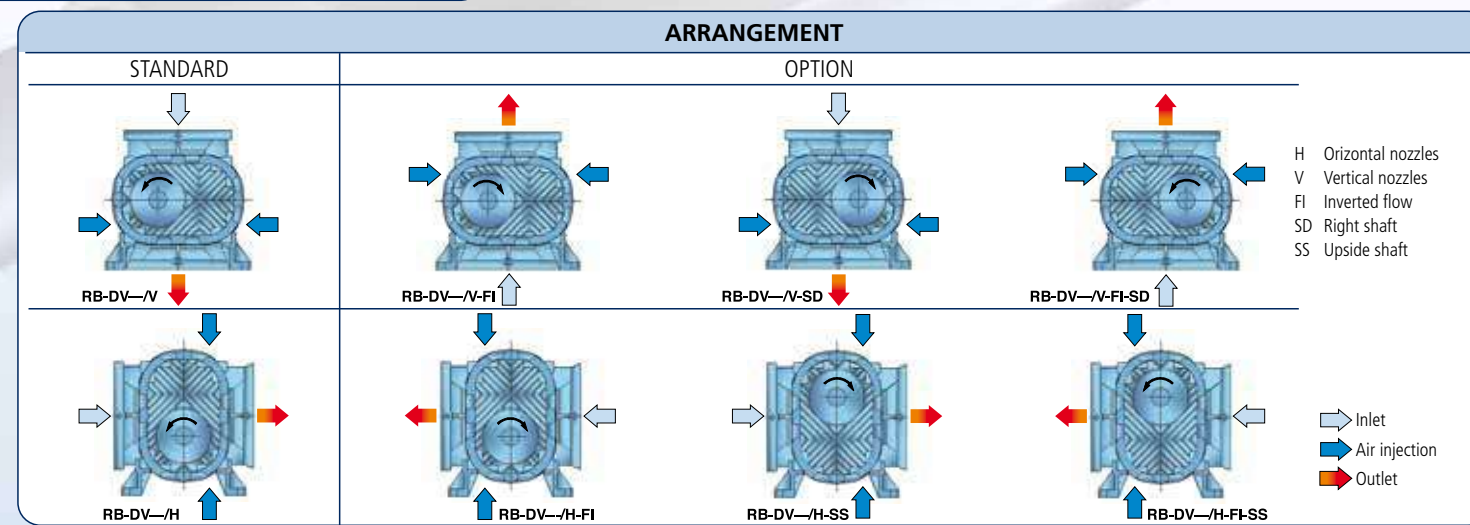
Double ended oil bath lubrication ensures long bearing life.

PERFORMANCE

BLOWER		VACUUM																																							
		30% 9"HG			50% 15"HG			60% 18"HG			70% 21"HG			80% 24"HG			85% 25.5"HG			90% 27"HG			93% 28"HG																		
SIZE	QG	RPM	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP	m³/h	CFM	kW	BHP			
45	m³/h 840 494 CFM	2000	236	139	3.5	4.7	182	107	5.4	7.2	144	85	6.3	8.4	83	49	7.2	9.6																							
		2500	320	188	4.4	5.9	266	156	6.7	9.0	228	134	7.9	10.6	167	98	9.0	12.1	44	26	10.2	13.7																			
		3000	404	238	5.3	7.1	350	206	8.1	10.9	312	184	9.5	12.7	251	148	10.9	14.6	128	75	12.3	16.5																			
		3500	488	287	6.1	8.2	434	255	9.4	12.6	396	233	11.0	14.7	335	197	12.7	17.0	212	125	14.3	19.2	77	45	15.1	20.2															
		4000	572	336	7.0	9.4	518	305	10.7	14.3	480	282	12.6	16.9	419	246	14.5	19.4	296	174	16.3	21.8	161	95	17.3	23.2															
65	m³/h 1550 912 CFM	2000	530	312	5.8	7.8	462	272	9.4	12.6	380	224	11.0	14.7	300	176	13.0	17.4																							
		2500	688	405	7.5	10.1	630	371	12.0	16.1	540	318	14.0	18.8	450	265	16.5	22.1	340	200	18.8	25.2																			
		3000	850	500	9.5	12.7	790	465	14.9	20.0	700	412	17.5	23.5	610	359	20.0	26.8	510	300	23.0	30.8	300	176	24.3	32.6															
		3500	1012	595	11.6	15.5	950	559	17.9	24.0	860	506	21.0	28.1	770	453	24.5	32.8	670	394	27.0	36.2	480	282	29.0	38.9															
		4000	1175	691	14.0	18.8	1100	647	21.2	28.4	1050	618	25.0	33.5	930	547	28.0	37.5	840	494	32.0	42.9	630	371	34.0	45.6	290	171	36.5	48.9											
85	m³/h 2724 1602 CFM	2000	1183	696	13.2	17.7	1090	641	21.5	28.8	900	529	25.0	33.5	720	424	29.2	39.1	570	335	33.2	44.5																			
		2500	1543	908	17.3	23.2	1450	853	27.3	36.6	1320	776	32.3	43.3	1100	647	37.3	50.0	850	500	42.3	56.7	600	353	44.8	60.0															
		3000	1903	1119	22.1	29.6	1800	1059	34.1	45.7	1620	953	40.0	53.6	1390	818	46.1	61.8	1150	676	52.1	69.8	900	529	55.1	73.8	690	406	69.4	93.0											
		3500	2263	1331	27.4	36.7	2100	1235	41.4	55.5	2040	1200	48.0	64.3	1860	1094	55.4	74.2	1590	935	62.4	83.6	1350	794	65.9	88.3	690	406	69.4	93.0											
		3800	2479	1458	31.0	41.5	2400	1412	46.0	61.6	2270	1335	53.5	71.7	2040	1200	61.4	82.3	1800	1059	69.0	92.5	1560	918	72.8	97.6	750	441	76.6	102.6	BO	BO	46.0	61.6							
105	m³/h 3900 2294 CFM	1500	1608	946	17.5	23.5	1400	824	28.3	37.9	1300	765	33.3	44.6	1000	588	39.2	52.5	600	353	44.6	59.8																			
		1750	1934	1138	20.9	28.0	1720	1012	33.6	45.0	1600	941	39.3	52.7	1300	765	46.2	61.9	900	529	52.6	70.5	350	206	55.7	74.6															
		2000	2260	1329	24.5	32.8	2040	1200	39.0	52.3	1900	1118	46.3	62.0	1600	941	53.5	71.7	1200	706	60.7	81.3	650	382	64.4	86.3															
		2250	2586	1521	28.4	38.1	2360	1388	44.7	59.9	2200	1294	52.9	70.9	1900	1118	61.0	81.7	1500	882	69.2	92.7	950	559	73.3	98.2	300	176	77.6	104.0											
		2500	2912	1713	32.6	43.7	2680	1576	50.7	67.9	2500	1471	59.8	80.1	2200	1294	68.8	92.2	1800	1059	77.9	104.4	1250	735	82.4	110.4	600	353	87.2	116.8											
125	m³/h 5950 3500 CFM	1070	2169	1276	23.4	31.4	1900	1118	38.2	51.2	1700	1000	45.6	61.1	1500	882	52.9	70.9	1000	588	60.3	80.8																			
		1200	2492	1466	26.6	35.6	2200	1294	48.7	65.3	2050	1206	51.5	69.0	1830	1076	59.7	80.0	1330	782	68.0	91.1																			
		1340	2840	1671	30.2	40.5	2570	1512	45.0	60.3	2400	1412	58.0	77.7	2150	1265	67.2	90.0	1680	988	76.4	102.4	830	488	81.1	108.7															
		1500	3237	1904	34.5	46.2	2970	1747	55.2	74.0	2800	1647	65.6	87.9	2500	1471	75.9	101.7	2080	1224	86.3	115.6	1200	706	91.5	122.6															
		1680	3684	2167	39.7	53.2	3420	2012	62.8	84.2	3250	1912	74.4	99.7	3000	1765	86.0	115.2	2520	1482	97.6	130.8	1680	988	103.4	138.6	1030	606	105.9	146.7											
145	m³/h 10500 6676 CFM	1070	4704	2767	49.3	66.1	4250	2500	80.4	107.7	3900	2294	96.0	128.6	3480	2047	111.6	149.5	2690	1582	127.1	170.3	1600	941	134.9	180.8															
		1200	5385	3168	56.0	75.0	4900	2882	90.9	121.8	4600	2706	108.4	145.3	4160	2447	125.8	168.6	3370	1982	143.3	192.0	2300	1353	152.0	203.7	870	512	160.9	215.6											
		1340	6119	3599	63.5	85.1	5600	3294	102.5	137.4	5300	3118	122.0	163.5	4900	2882	141.5	189.6	4100	2412	161.0	215.7	3050	1794	170.8	228.9	1600	941	180.8	242.3											
		1500	6957	4092	72.6	97.3	6470	3806	116.0	155.4	6150	3618	138.0	184.9	5740	3376	159.9	214.3	4940	2906	181.7	243.5	3890	2288	192.6	258.1	2450	1441	204.0	273.4											
		1680	7900	4647	83.3	111.6	7400	4353	132.0	176.9	7100	4176	156.6	209.8	6680	3929	181.0	242.5	5880	3459	205.0	274.7	4835	2844	217.7	291.7	3380	1988	230.5	308.9											
2000	9576	5633	104.1	139.5	9104	5355	162.0	217.1	8710	5124	191.0	255.9	8295	4879	220.0	294.8	7477	4398	253.0	339.0	6390	3759	267.9	359.0	4910	2888	283.2	380.2	BO	BO	293.0	392.6									

TRB-DV application field QG = Volume displacement BO = Blank off
According to the application

ARRANGEMENT

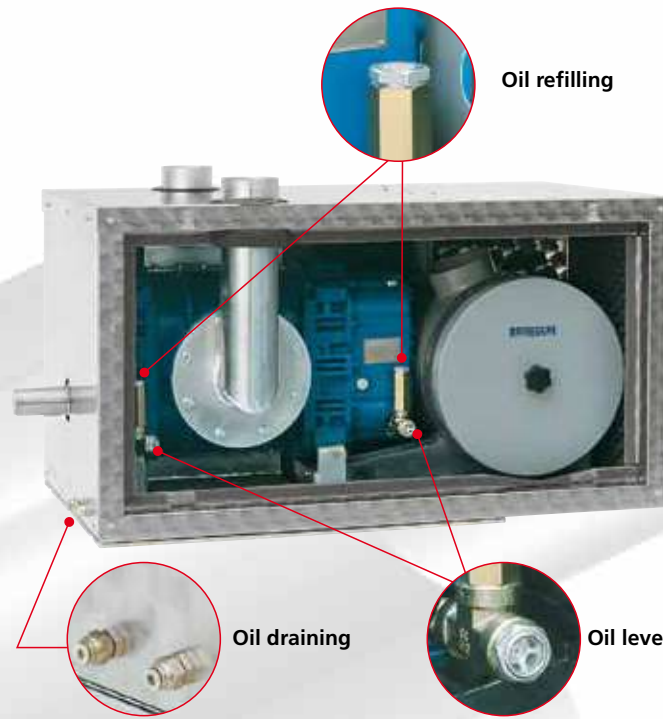


TRB-DV are completely assembled compact group sets with noise enclosure developed for vacuum truck handling wet and/or dry waste. It is possible to install this group with up to 5° degree tilt. Power take off connection can be made by either hydraulic motor and/or V-belt transmission.

TRB-DV group main features are:

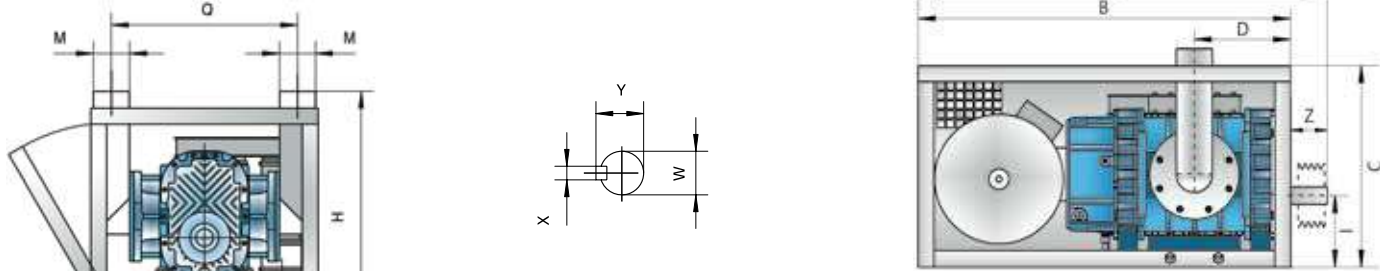
- No oil mist from the blower discharged into the environment;
- No water cooling required;
- Compact design allows flexibility positioning on truck and takes up less space;
- Easy installation;
- Simple maintenance thanks to front mounted site glasses giving clear view of oil level and easy access to draining and refilling lubricant;
- Options available: left side opening door and clock wise; left side opening door and counter clock wise; right side opening door and clock wise; right side opening door and counter clock wise;
- Stainless steel noise enclosure available on request.

TRB-DV can replace liquid ring vacuum pumps and vane vacuum pumps.



TRB-DV - OVERALL DIMENSIONS

Left side opening door enclosure.

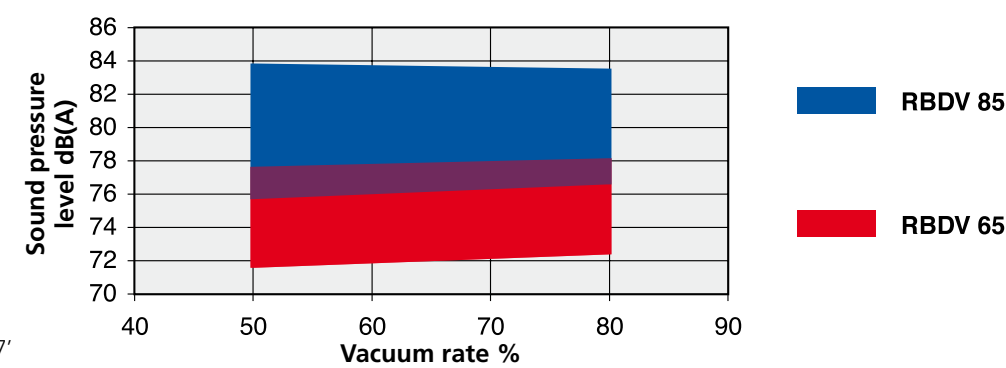


Blower	A	B	C	A1	D	H	L	M	Q	W	Z	X	Y	Weight kg	lbs
65	660 25,98	1090 42,91	560 22,05	330 12,99	250 9,84	610 24,02	1200 47,24	100 4	530 20,87	48 1,89	110 4,33	14 0,55	51,5 2,03	320	705,48
85	720 28,35	1190 46,85	650 25,59	360 14,17	310 12,20	700 27,56	1300 51,18	100 4	590 23,23	55 2,17	110 4,33	16 0,63	59 2,32	435	959,01

Right side opening door enclosure available too.



TRB-DV: NOISE LEVEL ISO 3746 *



* Free field 7m - 22,967'

ACCESSORIES



ROBOX EVOLUTION DV

ROBOX evolution suction group with RB-DV air injection vacuum blower:

- Silent operation;
- Simple inspection: thanks to the new levels positioned on the front panel of the enclosure;
- Monitored operation;
- Compact construction.

For more detailed information, consult BLOWERS catalogue.



GARDNER DENVER S.r.l.
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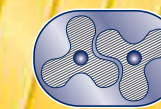
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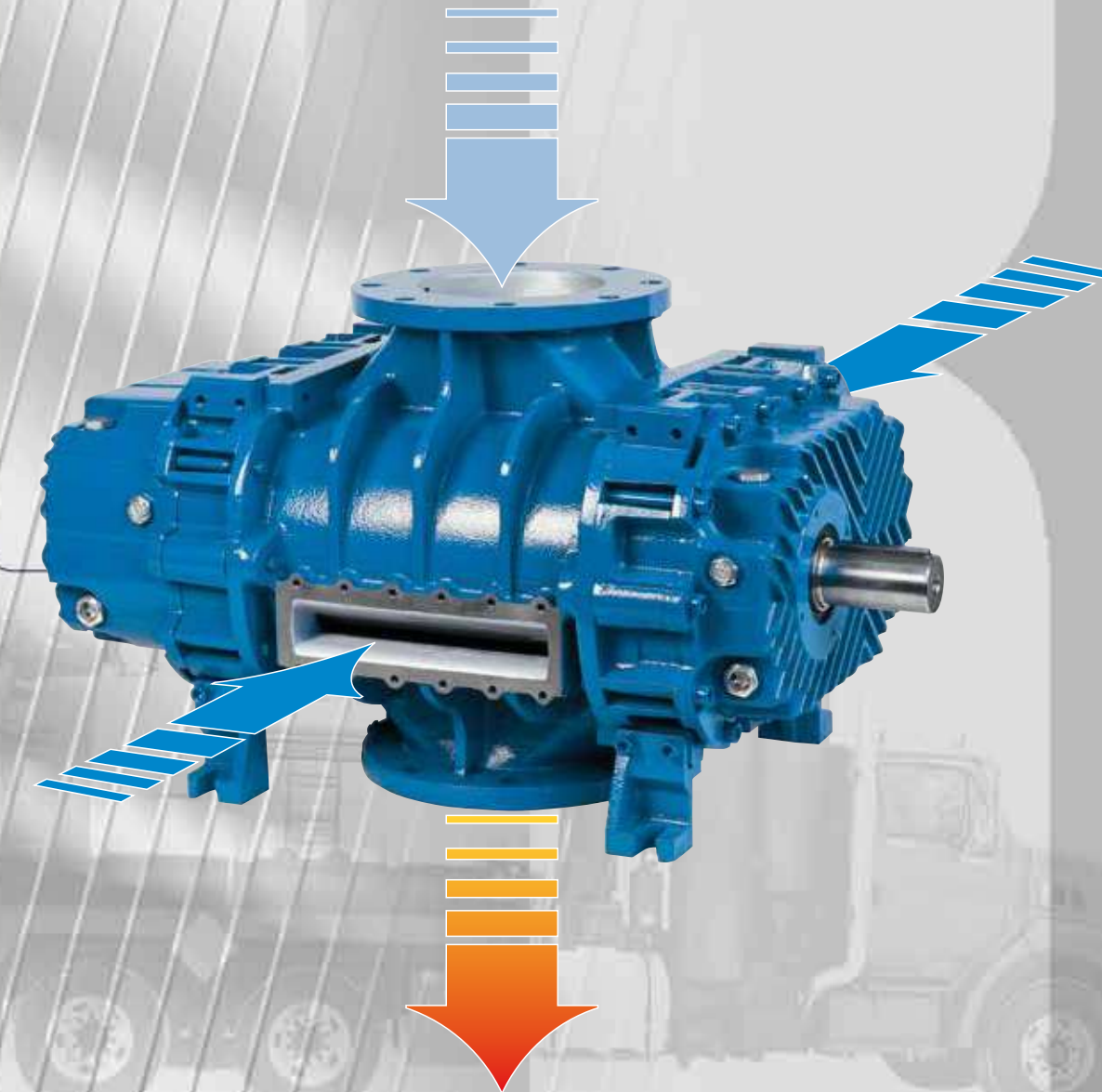
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