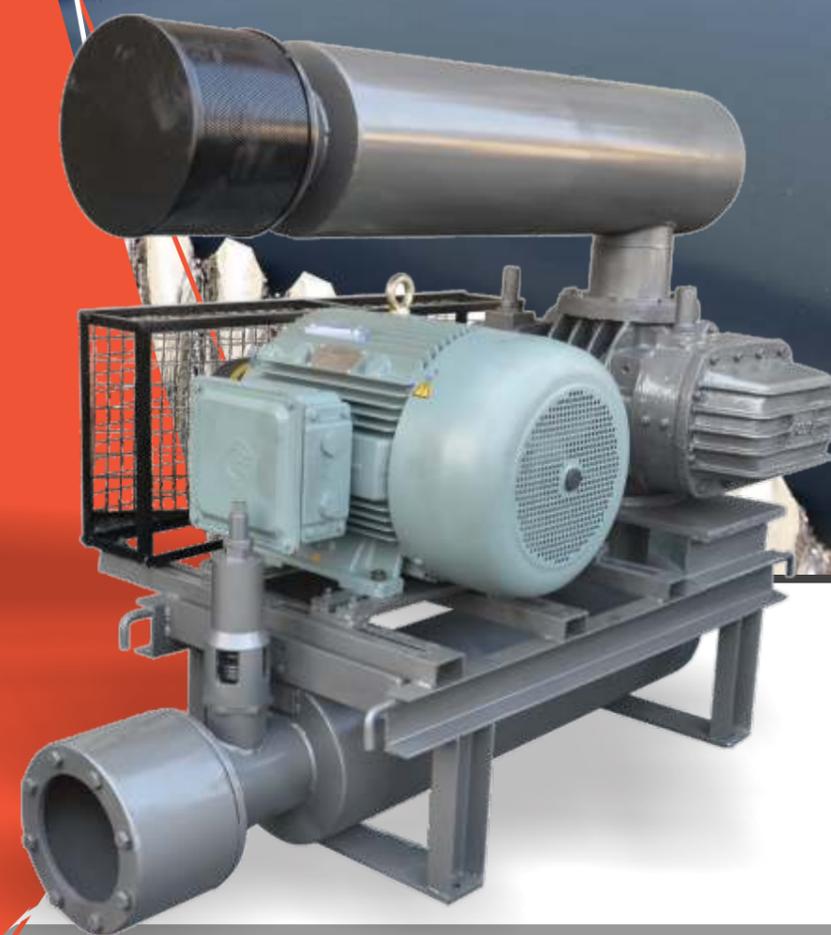


*We Care,  
your needs*



**ROOTS INDIA**  
C O M P A N Y  
PRESSURE & VACUUM SYSTEMS

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**BRANCH:** BARODA | SURAT | ANKLESHWAR | VAPI | VALSAD | MUMBAI | HYDERABAD | CHENNAI  
VIJAYWADA | KOLKATA | DELHI | HARYANA | BANGLORE



**ROOTS INDIA**  
C O M P A N Y

ISO 9001 : 2008 Certified Company

PRESSURE & VACUUM  
SYSTEMS

# TWIN LOBE COMPRESSORS

Application Industries

- Cement Industries
- Sugar Industries
- Paper Industries
- Pollution Control Plants
- Effluent Treatments Plants
- Textile Industries
- Gas Booster
- Fertilizer Industries
- Chemical Industries
- Glass / Bulb Industries

# PERFORMANCE DATA

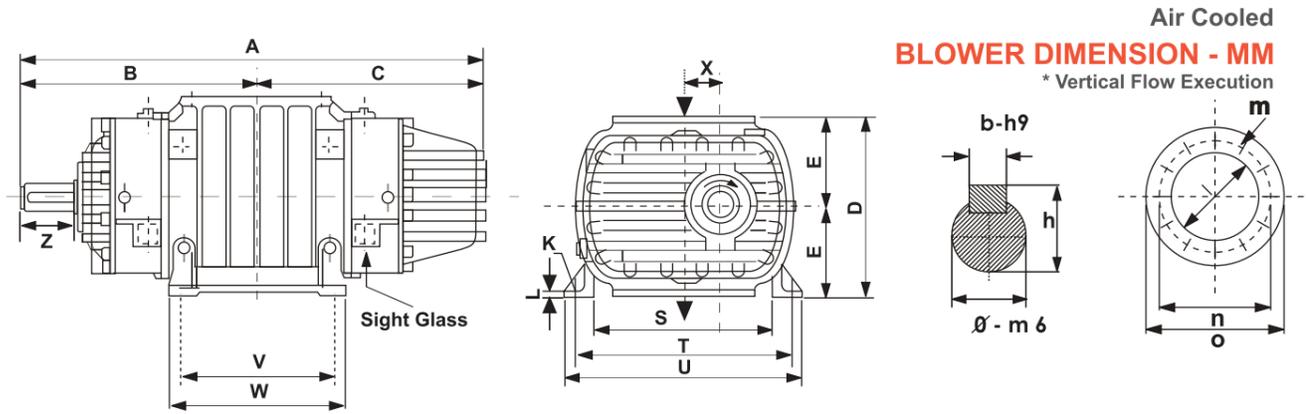


Special Features

- 100% Oil Free Air
- Air Cooled Design
- Continuous Air Flow
- Special Sealing Arrangement
- Suitable for Gases other than air
- V-Belt drive can be used for complete range
- Shaft centre heights to suit motor as per IEC frame size
- Air Flow can be vertical or horizontal with adjustable feet

MODEL	ΔP mbar >>		100		200		300		400		500		600		700		800		900	
	M/c rpm	motor rpm	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw	m³/hr	BKw
RIC - 010	1196	1450	72	0.32	57	0.65	46	0.97	36	1.29	28	1.61								
	1368	1450	89	0.37	73	0.74	62	1.11	52	1.47	44	1.64								
	1610	1450	111	0.44	96	0.87	85	1.30	75	1.73	67	2.17	60	2.60						
	1933	1450	142	0.52	127	1.04	115	1.56	106	2.06	97	2.60	90	3.12	83	3.64				
	2239	2900	171	0.60	155	1.21	144	1.81	134	2.41	126	3.01	119	3.61	112	4.22	106	4.82		
	2549	2900	200	0.69	185	1.37	173	2.06	164	2.74	155	3.43	148	4.11	141	4.80	135	5.49	129	6.17
	2900	2900	233	0.78	218	1.56	206	2.34	197	3.12	188	3.90	181	4.68	174	5.46	168	6.24	162	7.02
	1073	965	113	0.47	93	0.93	78	1.40	66	1.86	55	2.33	45	2.80						
RIC - 012	1386	1450	157	0.60	138	1.19	123	1.78	111	2.38	100	2.97	90	3.56	81	4.16				
	1610	1450	194	0.70	174	1.40	160	2.10	147	2.80	136	3.49	126	4.19	117	4.89	109	5.59		
	1933	1450	243	0.84	223	1.68	208	2.52	196	3.36	185	4.20	175	5.03	166	5.87	158	6.71	150	7.55
	2239	2900	289	0.97	269	1.95	255	2.92	242	3.89	231	4.86	221	5.83	212	6.80	204	7.77	196	8.74
	2549	2900	336	1.11	316	2.21	301	3.32	289	4.43	278	5.53	268	6.64	259	7.74	251	8.85	243	9.95
	2900	2900	389	1.26	369	2.52	354	3.78	342	5.03	331	6.29	321	7.55	312	8.81	304	10.10	296	11.40
	1196	1450	191	0.71	168	1.41	151	2.12	136	2.83	122	3.53	110	4.24	99	4.94				
	1368	1450	227	0.81	204	1.62	186	2.42	171	3.23	158	4.04	146	4.84	135	5.65	125	6.46		
RIC - 014	1610	1450	277	0.95	254	1.90	236	2.65	221	3.80	208	4.75	196	5.70	185	6.65	174	7.60	165	8.55
	1933	1450	343	1.14	320	2.28	302	3.42	287	4.56	274	5.70	262	6.84	251	7.98	241	9.13	231	10.30
	2239	2900	406	1.32	383	2.64	365	3.97	350	5.29	337	6.61	325	7.93	314	9.25	304	10.60	294	11.90
	2549	2900	470	1.51	447	3.01	429	4.51	414	6.02	401	7.52	389	9.02	378	10.60	368	12.10	358	13.60
	2900	2900	542	1.71	519	3.42	502	5.14	487	6.85	473	8.56	461	10.30	450	12.00	440	13.70	431	15.40
	1073	965	272	0.98	242	1.96	219	2.94	199	3.91	182	4.39	166	5.87	151	6.85				
	1275	1450	336	1.17	306	2.33	283	3.49	263	4.65	246	5.81	230	6.98	216	8.14	202	9.30		
	1450	1450	392	1.32	362	2.65	339	3.97	319	5.29	302	6.61	286	7.93	271	9.25	258	10.60	245	11.90
RIC - 016	1810	1450	506	1.65	476	3.30	453	4.95	434	6.60	416	8.25	400	9.90	385	11.60	372	13.20	359	14.90
	2127	1450	607	1.94	577	3.88	554	5.82	534	7.76	517	9.70	501	11.70	487	13.60	473	15.50	460	17.50
	2391	2900	691	2.18	661	4.36	638	6.54	618	8.72	601	10.90	585	13.10	570	15.30	557	17.50	544	19.60
	2732	2900	800	2.49	770	4.98	746	7.74	727	9.96	709	12.50	694	15.00	679	17.50	665	19.90	652	22.40
	916	965	361	1.27	323	2.55	292	3.82	266	5.09	243	6.36	221	7.63	202	8.90				
	1078	965	440	1.50	401	3.00	371	4.49	345	5.91	321	7.48	300	8.98	280	10.50	262	12.10		
	1375	1450	584	1.91	546	3.82	515	5.73	489	7.64	466	9.54	444	11.50	425	13.40	406	15.30	389	17.20
	1620	1450	703	2.25	665	4.05	634	6.75	608	9.00	585	11.30	563	13.50	544	15.80	525	18.00	508	20.30
RIC - 019	1825	1450	803	2.54	764	5.07	734	7.60	708	10.20	684	12.70	663	15.20	643	17.80	625	20.30	607	22.80
	2071	1450	923	2.88	884	5.75	853	8.63	827	11.50	804	14.40	783	17.30	763	20.10	744	23.00	727	25.90
	2320	2900	1044	3.22	1005	6.44	974	9.66	948	12.90	925	16.10	904	19.30	884	22.60	865	25.80	848	29.00

MODEL	ΔP mbar >>		100		200		300		400		500		600		700		800		900	
	M/c rpm	motor rpm	m³/hr	BKw																
RIC - 022	930	980	640	2.14	587	4.27	545	6.40	508	8.54	475	10.70	445	12.80	417	15.00	390	17.10		
	1095	980	772	2.51	719	5.03	677	7.54	641	10.10	608	12.60	577	15.10	549	17.90	523	20.10		
	1300	1450	937	2.98	884	5.97	842	8.95	805	12.00	772	14.90	742	17.90	714	20.90	687	23.90	662	26.90
	1450	1450	1057	3.33	1004	6.65	962	9.98	926	13.30	893	16.70	863	20.00	834	23.30	808	26.60	783	30.00
	1625	1450	1198	3.73	1145	7.46	1103	11.20	1065	14.90	1033	18.70	1003	22.40	975	26.10	948	29.60	923	33.60
	1825	1450	1358	4.19	1306	8.37	1263	12.60	1227	16.80	1194	21.00	1164	25.10	1136	29.30	1109	33.50	1084	37.70
	2035	1450	1527	4.67	1474	9.34	1432	14.00	1395	18.70	1362	23.40	1332	28.00	1304	32.70	1278	37.40	1253	42.00
	875	965	970	3.20	900	6.39	845	9.59	797	12.80	755	16.00	716	19.20	680	22.40	647	25.60	615	28.80
	980	985	1104	3.58	1034	7.16	979	10.80	931	14.30	869	17.90	850	21.50	814	25.10	781	28.70	749	32.20
	1095	1450	1250	4.00	1181	8.00	1126	12.00	1078	16.00	1036	20.00	997	24.0	961	28.00	927	32.00	895	36.00
RIC - 026	1230	1450	1423	4.49	1353	8.99	1298	13.50	1250	18.00	1208	22.50	1169	27.00	1133	31.50	1100	36.00	1068	40.50
	1375	1450	1608	5.02	1538	10.10	1483	15.10	1435	20.10	1393	25.10	1354	30.20	1318	35.20	1285	40.20	1253	45.20
	1535	1450	1812	5.61	1742	11.20	1687	16.80	1640	22.50	1597	28.10	1559	33.70	1522	39.30	1489	44.90	1457	50.50
	1720	1450	2048	6.28	1978	12.60	1923	18.90	1876	25.20	1833	31.40	1795	37.70	1759	44.00	1725	50.30	1693	56.60
	716	965	1289	4.28	1199	8.56	1129	12.90	1069	17.10	1015	21.40	967	26.70	922	30.00	879	34.30		
	807	965	1479	4.83	1389	9.65	1318	14.50	1258	19.30	1205	24.10	1156	29.00	1111	33.80	1069	38.60		
	909	965	1691	5.44	1601	10.90	1530	16.30	1470	21.80	1417	27.20	1368	32.60	1323	38.10	1281	43.50	1241	48.90
	1024	965	1930	6.12	1840	12.30	1770	18.40	1710	24.50	1656	30.60	1607	36.80	1562	42.90	1520	49.00	1481	55.10
	1155	1450	2203	6.91	2113	13.80	2042	20.70	1982	27.60	1929	34.60	1880	41.50	1835	48.40	1790	55.30	1753	62.20
	1287	1450	2478	7.70	2387	15.40	2317	23.10	2257	30.80	2203	38.50	2155	46.20	2110	53.90	2068	61.60	2028	69.30
1450	1450	2817	8.67	2727	17.40	2656	26.00	2596	34.70	2543	43.40	2494	52.00	2449	60.70	2407	69.40	2367	78.00	
RIC - 030	716	955	2311	7.43	2181	14.90	2079	22.30	1992	29.70	1914	37.10	1843	44.60	1777	52.00	1716	59.40	1657	66.80
	807	965	2640	8.37	2511	16.80	2409	25.10	2321	33.50	2244	41.90	2173	50.20	2107	58.60	2045	67.00	1987	75.30
	909	965	3010	9.43	2880	18.90	2778	28.30	2691	37.70	2613	47.10	2542	56.60	2476	66.00	2414	75.40	2356	84.80
	1024	965	3426	10.60	3296	21.30	3194	31.90	3107	42.50	3029	53.10	2958	63.70	2892	74.30	2831	84.90	2773	95.60
	1155	1450	3900	12.00	3771	24.00	3669	35.90	3581	47.90	3504	59.90	3433	71.90	3367	83.80	3305	95.80	3247	109
	1278	1450	4378	13.40	4249	26.70	4147	40.10	4059	53.40	3982	66.70	3911	80.10	3845	93.40	3783	108	3725	121
	1450	1450	4969	15.10	4839	30.10														



Model	A	B	C	D	E	K	L	S	T	U	V	W	X	Z	b	h	ø	l	m	n	o
RIC-10	514	252	262	224	112	14	12	200	280	310	130	170	36	60	8	28	25	70	4xM12	130	160
RIC-12	602	305	297	264	132	14	15	230	310	350	160	200	42	80	8	33	30	80	4xM16	150	190
RIC-14	644	327	317	280	140	18	15	260	340	380	180	220	48	80	10	38.5	35	100	4xM16	170	210
RIC-16	707	352	355	320	160	18	15	270	360	400	210	250	54	80	10	41.5	38	125	8xM16	200	240
RIC-19	820	425	395	360	180	18	18	310	400	440	250	300	63	110	12	45.5	42	150	8xM16	225	265
RIC-22	905	465	440	400	200	18	20	370	470	510	300	350	74	110	14	52	48	175	8xM16	255	295
RIC-26	1010	515	495	450	225	18	20	430	530	580	355	405	86	140	18	64	60	200	8xM16	280	320
RIC-30	1165	590	575	500	250	22	20	500	620	670	390	440	100	140	20	74.5	70	250	12xM16	335	375
RIC-36	1330	690	640	630	315	22	25	560	700	760	480	540	120	170	22	85	80	300	12xM20	395	440
RIC-42	1460	745	715	710	355	26	25	640	800	860	580	640	140	170	25	95	90	350	12xM20	445	490
RIC-50	1755	890	865	850	425	30	35	380	900	980	650	770	167	210	28	111.5	105	400	16xM20	495	540
RIC-70	1935	1033	902	1002	501	30	50	690	810	970	990	1060	167.5	200	28	106.5	100	400	16xM27	516	564

## CEMENT / FLY ASH FEEDING SYSTEM

ROOTS INDIA COMPANY conveying system for the purpose of conveying cement / Fly Ash & similar product in fine powder material around density like cement. The overall conveying distances horizontal will be 5 to 7 Mtrs and Vertical will be 15 to 18 Mtrs. approximately. Conveying rate depending upon the characteristic of material.

This system also using in Unloading the bulker in to the silo. Alternatively using this system for both purpose, Cement bag feeding & Bulker Unloading. We also arrange this system on trolley mounted.



Specification	Feature	Power HP	Rate in T/Hr. (For Bags)	Rate in T/Hr. (For Bulker)	Operation Mode
TCP-2	Screw Pump	70	16-18	25-30	Single-Alternate
TCP-3	Screw Pump	80	22-25	40-50	Single-Alternate



ROOTS INDIA COMPANY an ISO 9001-2008 and premium quality equipment manufacturer and solution provider, offers packaged system for conveying / feeding / Cement / Fly Ash into silos at Batching Plant sites. These Systems are part of modern and efficient construction industry practices contributing to improvement.

### BAG FEEDING SYSTEM



### FEATURES:

- Portability
- Dual Functions
- AVP Mounting
- Oil Free Conveyance
- Dual Over Pressure Safety
- Efficient Filter

## WATER RING VACUUM PUMP

ROOTS INDIA COMPANY single stage water ring vacuum pumps are manufactured as per very prevalent and pioneering swiss design. These pumps can develop maximum vacuum of 710 mm Hg (Blank-off) with barometric pressure at 760 mm Hg and sealing water temperature at 30 C.

### APPLICATION:

- Distillation - Deodorization - De-hydration
- Evaporation - drying - Filtration
- Sterilizing and Conveying etc.

### FEATURES:

- User friendly and rugged construction.
- Efficiently handles non-condensable toxic vapors and gases.
- Non hazardous Condensable Vapors / Gases can be removed with sealing water.



### FLOW:

- From 49 M / Hr. to 2030 M / Hr.
- Material of Construction: As per customer specifications.

TYPE UWV	4	7	12	15	20	30	40	60	100	150	200
SPEED RPM	2850	2850	2850	1450	1450	1450	1450	980	980	725	725
MAX. SUCK CAPACITY	49	81	123	160	220	330	440	725	1080	1500	2030
RECOMMENDED MOTOR HP	4	5	7.5	7.5	10	15	20	30	40	65	90
WATER CONSUMPTION LTR/MIN.	7	9	14	16	20	30	40	60	100	150	200

## WATER COOLED BLOWER



MODEL		500		600		700		800		900		1000	
	RPM	CMH	HP										
RIC-040	1450	128	5.5	126	6.5	124	7.5	122	8.5	120	9.5	118	10.5
	2850	272	10.5	367	12.6	362	14.5	358	16.3	354	18.3	350	20.4
RIC-060	1450	590	17	580	20	570	23	560	26	555	29	550	32
	2000	890	23	870	27	860	31	850	35	840	39	835	43
RIC-150	980	1290	34	1270	40	1250	46	1230	53	1220	59	1210	65
	1450	1990	51	2010	60	1980	69	1960	78	1940	87	1920	96

## ROOTS TYPE TWIN LOBE BLOWER

ROOTS INDIA COMPANY manufacturing the TWIN Lobe Compressors ( ROOTS Type Blowers) & Vacuum Pumps / Cement Feeding Systems / Bulker Unloading system. Roots India Company is the company have technical team of highly experience in this field. These products design are Swiss design and covering a wide range of Air volume and Pressure to meet the specific requirement of customers.

- Our aim is to earn customer trust and satisfaction by manufacturing and delivering the highest quality level of products

- All our products are design for reliable performance, easy maintenance and maximum energy efficient.

- Our special thrust is to provide very prompt pre-sales as well as post-sales services.

- Our high productive manufacturing facilities ensures for prompt delivery of our product and readily available spares

## FLEXIBLE RUBBER HOSE PIPE

Natural or synthetic fabric or a combination there of with two helical GS wire (as per IS-280-78) embedded between the reinforcement plies. In case of rough bore, of the two helical wire reinforcement, first is internal and visible from inside and the second is embedded between layers of plies.

## END CONNECTION

Each hose length has soft plain ends. We also provide both side mounting suitable flanges as per your dimensions. Pipe maximum temperature is 120 degree C and maximum length of 20 meter and minimum 5 meter.

SIZE		WORKING PRESSURE 10 Kg / cm <sup>2</sup>
MM	INCH	
100	4	10
125	5	10