An ISO-9001/2008
Certified Company

K-E-Y
INTERNATIONAL LTD.

LEADING THE WAY IN MANUFACTURING ROOTS BLOWERS SINCE 1966

MASTERY IN PRESSURE & VACUUM TECHNOLOGY

AN ISO 9001:2008 CERTIFIED COMPANY

THE JOURNEY SO FAR

From a humble beginning in 1966 as a micro unit with small infrastructure to a 30,000 square yards state –of-the-art plant with over 350 employees a global clientele of over 5000 companies across the world, KAY International at Sonepat, Haryana, is at the forefront of manufacturing Twin\Tri Lobe(Roots Blowers) in India. Our competition so far has been to challenge our own set quality standards and consistently break them to set new ones.

Mr. K.L. Arora, *One of the early forerunners of India's post-independence breed of entrepreneurs, rightly identified the need and opportunity of manufacturing rotary Twin Lobe Compressors in India, which until then were fully Imported. This focused idea and vision led to the establishment of KAY International which has stood the testimony of times serving varied industries with its unmatched product line.*

WHAT SETS US APART?

Superior, Customized Service

Our operations are spread over major business centers in India including Ahmedabad, Bangalore, Chennai, Delhi, Durg, Jamshedpur, Kolkata and Mumbai. Our teams are highly trained and equipped to recommend and deliver the exact air blower system to your facility. With our vast experience, we have developed import substitutes of major international blowers. We also offer servicing and spare-parts replacement of imported blowers in 1:1 ratio. We can give tailor-made blowers as per your special construction material needs like stainless steel, Bronze, Nickel/chrome plating etc.

"SUCCESSFUL COMPANIES ARE CONCEIVED BY VISIONARIES

Founder, KAY International

OUR VISION

"To ensure customer satisfaction by delivering unmatched quality products through constant research and innovation thus ushering profitability through efficiency"

OUR PRODUCT LINE

TWIN LOBE BLOWERS

Twin Lobe Rotary Blowers are available in low RPM high pressure and high RPM low pressure variants. They performs superbly in single as well as double stage. Also available in air-cooled and water-cooled variants.

Models Available:

KE Series, PRT Series, 2KHC Series, INDIANA Series.

Capacity: Max 55,000 m3/hr + Pressure 1Kg

TRI LOBE BLOWERS

The Tri Lobe Blower, with rotor tips disposed at 120° on each rotor, causes the rotor set to be much more resistant to angular deflection along its length. Five bearing technology makes the blower more robust and sturdy. also available in air-cooled and water-cooled variants.

Models Available:

K3H Series Capacity: Max 64,000 m³/hr + Pressure 1Kg

TRUCK MOUNTED BLOWERS

The unique DRY-HIGH VACUUM PUMP (Positive Displacement Type) is capable of attaining 28”Hg vacuum and eliminates the need for water or oil sealing. The 3HVP series pumps do not require Heat Exchanges and are suitable for inlet temperatures without use of Pre-coolers.

Models Available:

3HVP Series

ACCESSORIES

To ensure complete safety and quality we recommend our high quality range of accessories which includes

- Acoustic Hood
- Common Base Frame
- Slide Rail
- Suction Filter
- Discharge Silencer
- Suction Filter
- Motor Pulley
- Blower Pulley
- V-Belt / Coupling
- V-Belt / Coupling Guard
- Pressure Gauge with Isolation Valve & Syphon
- Safety Valve
- Non Return Valve
- Anti Vibration Pads
- Expansion joint/Bellow
- Foundation Bolts
- Gasket
- Filter choking Device

Acoustic Hood

SELF CONTAINED PACKAGE UNITS

KAYPAC I

Standard Arrangement 3" to 24"
This arrangement is available for frame sizes ranging from 3" to 16" for oil free compression of air and gases.

Flow Rate: From 5 m³/hr to 55,000 m³/hr

KAYPAC II

Standard arrangement (available at an extra cost)
This compact arrangement with very low noise & vibration is available for frame size ranging from 6" to 12" for oil free compression of air and gases.

Flow Rate: From 400 m³/hr to 10,000 m³/hr

KAYPAC I

QUALITY YOU CAN RELY ON

PRODUCT DESIGN FEATURES

Solid Design: Our compact, sturdy design is engineered for continuous service when operated in accordance with speed and pressure ratings. Timing gears are secured to the shaft with taper mounting and locknuts. This eliminates the need for unreliable taper pins, aiding field maintenance. Spherical roller bearings are engineered for reliable and long service life. All rotating parts like impellers and pulleys are dynamically balanced to avoid undue load on the bearings.

Efficiency and Reliability: Each KAY Compressor has computer calculated profiles and is precision machined on the latest CNC equipment assuring close tolerance between the impellers, casing and side plates to minimize, ”back slippage” of air, improving efficiency and reliability.

Smooth Operation: Precision hardened and ground helical steel gears are used to ensure smooth, silent running and accurate timing of the rotating impellers. A controlled lubrication system is provided to ensure efficient operation without wastage of energy in the gear case.

High Standards: Performance tests are conducted on all our machines and components as per BS standard 1571 Part II under the most arduous design conditions before dispatch. Kay Rotary Twin Lobe Compressors are designed, manufactured and supported with maintenance as per ISO 9001 standards.

Stringent Tests: Measurement of characteristics (flow, pressure, power) and vibration measurements analysis is taken and recorded. Noise level measurement can be conducted after the installation of the compressor at site. We also offer quality control program, technical documentation, special calculations, or certificates of compliance to ASTM, DIN AND ISI codes, if required.

A Complete Solution: KAY Compressors may be supplied as self-contained package unit consisting of base frame, safety valve, suction filter, suction silencer, discharge silencer, non-return valve, pressure gauge, anti-vibration pads, v-belts, v-belt guards, drive and driven pulleys, Set of special tools, foundation bolts and interconnecting pipings with flange or alternatively with any of the above items, specified as optional equipment.

Eco-Friendly Machines: Our research for energy conservation, safety during operation and optimization of the manufacturing processes is undertaken to meet your expectations, while preserving the environment and natural resources. Committed to persistent innovative effort, KAY engages important resources for research and development to offer state-of-the-art solutions.

MATERIALS OF CONSTRUCTION

Highest quality material backed by superior Workmanship

CASING- Newly Designed monolithic style, made of Cast Iron Grade 26, including extra deep rib sections for greater rigidity under vacuum or pressure service.

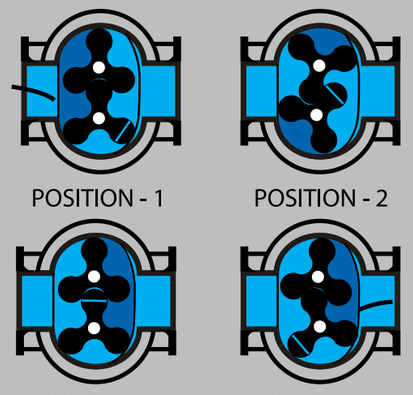
IMPELLERS- Accurately machined for close tolerance operation, dynamically balanced for smooth running and lower bearing loads. I.S. 210 Grade FG 260 is used in standard model, however in higher speed of compressors, Forged/S.G. iron material is used with integral shaft arrangement.

TIMING GEARS- Alloy Steel, heat treated taper bore, helical ground cut for greater strength and quieter operation. Easy fitting with hydraulic jack ensures longer life of bearings.

BEARINGS- Heavy Duty spherical roller bearings, double row for maximum loading. The bearings are held in machined cartridges. Gears and bearings are fixed axially against shaft shoulder to control thrust load and maintain end clearance.

All blowers components are being machined on state-of-the-art latest CNC machines

PRINCIPLE OF OPERATION -TRI LOBE



PRINCIPLE OF OPERATION - TWIN LOBE

SECTORS

With clients across India, and other Asian European and Middle Eastern Countries our high-quality compressors are widely used in varied industries like:

- Cement / Thermal Plants (FGD, CBFC, Lime Kiln, Ash Handling, Fluidizing)
- Metallurgy
- Waste Water Treatment Plants
- Sugar Plants
- Steel Plants
- Ice Factories
- Gas Plants / COG Gas Booster
- Chemical Plants
- Hospitals
- Tanning Industry
- Pharmaceutical Industry
- Food & Agriculture Industry
- Glass Industry
- Power Plants
- Paper Industry
- GLS Lamp Plants
- Textile Industry
- Bulk Transport Vehicles
- Detergents
- Wood
- Mining
- Nuclear Plants

and many more...

Applications

- Pressure / Vacuum: Gases (H_2, He, CO_2, COG, Bio Gas etc. as Gas Boosters)

OUR ACHIEVEMENTS

Enabling the leading organizations to grow bigger

We have achieved our dominant position through continued investment in engineering personnel, latest CNC machines advanced inspection and testing technologies.

Our air blower solutions were chosen by public sector giants like ***'Nuclear Power Corporation Of India' and 'Bhabha Atomic Research Centre'*** to substitute their existing fully imported blowers. This is a true testimony to our finest quality yet cost effective solutions, that have also marked their presence in the rapidly growing and highly demanding international markets across industries. Apart from this, many major Indian corporate use our products for their specific needs.

PERFORMANCE DATA CALIFORNIA PRT SERIES

MODEL	INLET/ OUTLET (MM)	SPEED (RPM)	1000 MMWG		2000 MMWG		3000 MMWG		4000 MMWG		5000 MMWG		6000 MMWG		7000 MMWG		8000 MMWG		9000 MMWG		10000 MMWG	
			M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP	M³/hr	BHP
36	65	900	109	0,72	88	1,30	73	1,88	60	2,43												
		1200	162	0,97		1,74	126	2,52	113	3,28												
		1440	205	1,16	184	2,09	168	3,02	155	3,94												
315	20	1200	37	0,38	31	0,57	26	0,76	22	0,96	19	1,15	16	1,33	13	1,53	10	1,71				
		1440	48	0,47	41	0,69	37	0,92	33	1,15	29	1,37	26	1,60	23	1,83	20	2,05				
42	40	900	63	0,51	51	0,85	41	1,19	33	1,53	27	1,86	20	2,20	14	2,54	9	2,87				
		1200	94	0,69	82	1,14	72	1,59	64	2,04	57	2,49	51	2,93	45	3,38	40	3,83				
		1440	118	0,83	106	1,37	97	1,91	89	2,44	82	2,98	76	3,52	70	4,06	65	4,60				
44	50	900	96	0,67	80	1,16	67	1,65	57	2,14	49	2,63										
		1200	140	0,89	124	1,55	112	2,20	102	2,85	93	3,51										
		1440	176	1,07	160	1,85	148	2,64	138	3,43	129	4,21										
47	65	900	185	1,07	160	1,96	142	2,84	126	3,73												
		1200	266	1,42	242	2,61	223	3,79	208	4,98												
		1440	331	1,71	306	3,13	288	4,55	273	5,98												
412	80	1000	350	1,79	310	3,75	279	5,42	253	7.12	230	8.96										
		1200	439	2,15	399	4,35	368	6,48	342	8.62	319	10.74										
		1440	547	2,55	506	5,21	476	7,77	450	10.34	427	12.86										
53	65	750	124	0,84	106	1,45	93	2,06	81	2,67	71	3,28	62	3,89	54	4,51	45	5,12	72	6,88	65	7,61
		900	158	1,00	140	1,74	126	2,47	115	3,21	105	3,94	95	4,66	87	5,41	79	6,14	139	9,17	132	10,15
		1200	225	1,34	207	2,32	194	3,30	183	4,28	172	5,25	163	6,22	154	7,21	146	8,19	192	11,01	185	12,18
		1440	279	1,61	261	2,78	247	3,96	236	5,13	225	6,31	216	7,47	208	8,66	200	9,83				
55	65	750	166	1,10	145	1,80	129	2,59	116	3,38	103	4,17										
		900	209	1,20	188	2,16	172	3,11	159	4,06	146	5,00										
		1300	324	1,76	303	3,13	287	4,49	274	5,86	262	7,23										
		1440	365	1,95	344	3,46	328	4,98	315	6,49	302	8,01										
59	80	750	328	1,74	294	3,22	269	4,72	247	6,22												
		900	411	2,07	377	3,87	351	5,67	329	7,47												
		1300	630	2,99	596	5,59	570	8,18	548	10,79												
		1440	707	3,31	673	6,19	647	9,07	625	11,95												
514	100	750	489	2.46	438	4.69	399	6.92	366	9.27												
		900	611	2.95	560	5.62	521	8.3	489	11.1												
		1300	937	4.26	886	8.12	847	12	815	16.1												
		1440	1051	4.72	1000	9.02																
65	80	750	219	1,33	194	2,35	175	3,37	159	4,39	144	5,41	131	6,42	119	7,45	108	8,48	98	9,50	88	10,52
		1100	350	1,95	325	3,44	306	4,94	289	6,44	275	7,94	262	9,42	250	10,94	239	12,43	229	13,39	219	15,43
		1440	477	2,55	452	4,50	433	6,47	416	8,44	402	10,40	389	12,33	377	14,32	366	16,28	356	18,24	346	20,20
67	80	750	329	1,84	291	3,37	262	4,90	238	6,43	216	7,97										
		1100	525	2,70	487	4,95	458	7,19	434	9,44	412	11,69										
		1440	715	3,54	678	6,48	649	9,42	625	12,36	603	15,30										
610	100	750	438	2,35	388	4,39	349	6,43	317	8,48	288	10,52										
		1100	700	3,44	649	6,94	611	9,44	579	12,43	550	15,43										
		1440	954	4,51	903	8,43	865	12,36	833	16,28	804	20,20										
615	125	750	658	3,37	582	6,43	524	9,50	476	12,56												
		1100	1050	4,49	974	9,44	917	13,93	868	18,43												
		1440	1431	6,47	1355	12,36	1298	18,24	1249	24,12												
76	100	960	583	2,92	551	5,31	527	7,71	506	10,11	488	12,51	472	14,91	457	17,31	443	19,71	429	22,11	417	24,51
		1440	913	4,38	881	7,98	857	11,59	836	15,20	818	18,80	802	22,41	786	26,02	772	29,63	759	33,23	746	36,84
		1600	1024	4,87	991	8,88	966	12,89	946	16,90	927	20,91	911	24,92	896	28,93	882	32,95	868	36,96	856	40,97
78	100	960	778	3,72	735	6,93	703	10,14	675	13,35	651	16,56	629	19,77	609	22,98	590	26,19	572	29,40	556	32,60
		1440	1217	5,59	1175	10,40	1143	15,21	1115	20,03	1091	24,84	1068	29,65	1048	34,47	1030	39,28	1012	44,10	996	48,91
		1600	1364	6,21	1321	11,56	1288	16,90	1261	22,25	1237	27,60	1215	32,95	1195	38,30	1176	43,65	1158	49,00	1141	54,35
710	100	750	731	3,53	677	6,67	637	9,80	603	12,94	572	16,07										
		1000	1017	4,71	965	8,89	924	13,07	889	17,25	858	21,43										
		1440	1521	6,79	1469	12,81	1427	18,82	1393	24,84	1363	30,86										
713	125	750	950	4,47	880	8,54	827	12,62	783	16,69	743	20,76										
		1000	1322	5,96	1253	11,39	1200	16,81	1155	22,25	1115	27,68										
		1440	1977	8,59	1908	16,41	1855	24,23	1810	32,05	1770	39,86										
717	125	750	1243	5,73	1152	11,06	1083	16,39	1025	21,72												
		1000	1730	7,64	1640	14,75	1571	21,36	1512	28,96												
		1440	2588	11,01	2497	21,24	2428	31,48	2370	41,71												
89	125	960	1105	5,66	1036	10,29	983	14,93	938	19,56	899	24,20	864	28,83	831	33,47	800	38,10	772	42,74	745	47,37
		1440	1740	10,41	1671	17,36	1618	24,32	1574	31,27	1534	38,27	1499	45,18	1466	52,06	1436	59,08	1407	65,95	1380	72,89
		1600	1953	12,47	1884	20,19	1831	27,92	1786	35,65	1747	43,37	1711	51,10	1679	58,83	1648	66,55	1620	74,28	1593	82,01
812	125	960	1487	7,26	1394	13,50	1323	19,74	1263	25,98	1210	32,22	1162	38,46	1119	44,70	1078	50,94	1039	57,18	1003	63,42
		1440	2343	12,81	2250	22,10	2178	31,54	2119	40,10	2065	50,26	2018	59,62	1974	68,98	1933	78,42	1894	87,70	1858	97,07
		1600	2628	15,14	2536	25,54	2464	35,95	2404	46,35	2352	56,75	2304	67,15	2260	77,55	2219	87,95	2180	98,35	2144	108,75
816	200/ 150	960	1987	9,36	1863	17,70	1768	26,04	1688	34,37	1617	42,71	1553	51,05	1495	59,38	1440	67,73				
		1440	3130	15,98	3006	28,48	2911	40,98	2831	53,49	2760	66,00	2696	78,50	2637	91,01	2583	103,52				
		1600	3512	18,64	3388	32,54	3293	46,44	3213	60,33	3142	74,23	3078	88,13	3020	102,03	2965	115,93				
1012	200	960	2385	12,47	2265	22,22	2174	31,97	2097	41,71	2029	51,46	1967	61,21	1911	70,96	1858	80,70	1809	90,45	1762	100,20
		1440	3721	23,84	3602	38,45	3510	53,07	3433	67,70	3365	82,32	3303	96,94	3246	111,64	3194	126,17	3144	140,80	3098	155,42
		1770	4640	35,04	4521	53,05	4429	71,03	4352	88,90	4284	106,97	4223	124,94	4167	142,91	4114	160,88	4064	178.86	4017	196,83
1016	250/ 200	960	3352	16,16	3215	29,59	3110	43,02	3022	56,45	2944	69,89	2873	83,32	2808	96,75	2748	110,18	2691	123,62	2637	137,05
		1440	5194	29,35	5057	49,50	4952	69,65	4863	89,80	4785	109,95	4715	130,10	4649	150,25	4589	170,39	4532	190,54	4478	210,69
		1770	6461	41,88	6324	66,64	6218	91,41	6130	116,17	6052	140,94	5981	165,71	5916	190,47	5856	215,24	5799	240,00	5746	264,77
1020	300	960	3812	18,00	3656	33,27	3537	48,55	3436	63,82	3347	79,10	3267	94,37	3193	109,65	3125	124,92				
		1440	5906	32,12	5750	55,03	5631	77,91	5530	100,85	5441	123,77	5361	146,68	5287	169,59	5218	192,50				
		1770	7347	45,27	7191	73,44	7072	101,60	6971	129,76	6882	157,93	6802	186,09	6728	214,25	6659	242,42				
1024	300	960	4884	22.4	4684	41.89	4531	61.48	4402	81	4288	101	4185	120								
		1440	7567	39	7367	68	7214	97	7085	127	6971	156	6868	185.5								
		1770	9020	50	8821	85	8667	120														
1030	400/ 350	960	6097	27,15	5848	51,58	5657	76,01	5495	100,44	5353	124,86										
		1440	9446	45,85	9196	82,49	9006	119,13	8844	155,77	8702	192,41										
		1770	11749	62,15	11500	107,19	11309	152,23	11148	197,27	11006	242,31										
1216	350/ 300	960	4747	24,80	4580	43,58	4452	62,36	4344	81,14	4249	99,92	4163	118,70	4084	137,49	4010	156,27	3941	175,05	3876	193.83
		1270	6410	38,80	6244	63,65	6115	88,49	6008	113,34	5912	138,19	5826	163,03	5747	187,88	5674	212,73	5604	237,57	5539	262.42
		1460	7430	49,77	7263	78,33	7135	106,89	7027	135,46	6932	164,02	6846	192,59	6767	221,15	6693	249,71	6624	278,28	6559	306.84
1225	350/ 300	960	7509	35,32	7291	64,62	7124	93,92	6984	123,22	6859	152,52	6747	181,83	6644	211,13						
		1270	10104	52,72	9887	91,48	9720	130,25	9579	169,01	9455	207,77	9343	246,54	9239	285,30						
		1460	11695	65,77	11477	110,33	11310	154,89	11169	199,46	11045	244,02	10932	288,58	10829	333,14						
1230	450/ 400	960	9002	41,14	8741	76,27	8541	111,39	8372	146,52	8223	181,65										
		1270	12113	60,42	11852	106,89	11652	153,36	11483	199,83	11334	246,30										
		1460	14019	74,63	13758	128,05	13558	181,47	13389	234,89	13240	288,31										
1236	450	960	10845	48,22	10544	90,42	10312	132,62	10117	174,82	9946	217,02										
		1270	14581	69,78	14280	125,61	14049	181,43	13854	237,26	13682	293,08										
		1460	16872	85,38	16570	149,56	16339	213,74	16144	277,92	15973	342,09										
1422	400/ 350	730	6967	32,84	6747	60,18	6578	87,53	6435	114,87	6310	142,21	6197	169,56	6092	196,90	5995	224,24	5904	251,59	5818	278,93
		1090	10665	59,13	10445	99,96	10276	140,79	10135	181,62	10008	222,44	9894	263,27	9790	304,10	9693	344,93	9602	385,76	9516	426,58
		1250	12308	74,43	12088	121,25	11919	168,07	11777	214,89	11650	261,71	11538	308,54	11434	355,36	11337	402,18	11244	449,00	11158	495,82
1431	450	730	9443	42,56	9144	79,62	8915	116,68	8722	153,74	8553	190,80	8399	227,86								
		1090	14455	73,64	14157	128,98	13928	184,32	13735	239,65	13565	294,99	13411	350,33								
		1250	16682	91,07	16384	154,53	16155	218,99	15962	281,45	15792	344,91	15639	408,37								
1435	450	730	10847	48,07	10505	90,64	10242	133,22	10020	175,80	9825	218,37	9648	260,94								
		1090	16605	81,88	16263	145,45	16000	209,02	15778	272,59	15583	336,16	15406	399,73								
		1250	19164	100,47	18822	173,37	18559	246,27	18337	319,17	18142	392,07	17966	464,97								
1442	450	730	12944	56,11	12556	106,73	12258	157,35	12008	207,97	11787	258,59										
		1090	19790	93,89	19402	167,47	19105	245,05	18853	320,63	18632	396,22										
		1250	22832	114,29	22444	200,96	22147	287,64	21896	374,32	21675	460,99										

Note :

1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm2, specific gravity of 1,0.
2. Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30"HG and specific gravity of 1,0.
3. Performance testing as per BS 1571 Part II.
4. Above 7000 MMWG pressure water cooled arrangement shall be provided.
5. All specifications are subject to change without notice.

PERFORMANCE DATA 2KHC SERIES

MODEL	INLET & DISCH. DIA (mm)	DISPL. CFR	RPM	2000 MMWG		4000 MMWG		6000 MMWG		7000 MMWG		8000 MMWG		10000 MMWG	
				M3/hr	BHP	M3/hr	BHP	M3/hr	BHP	M3/hr	BHP	M3/hr	BHP	M3/hr	BHP
PARAMETERS OF 16" BLOWERS															
1620	350	7.02	750	8072	76	7711	142	7433	207	7312	239	7199	272	6993	337
			1150	12843	140	12481	240	12204	340	12083	390	11970	440	11764	540
1627	400	9.47	750	11114	99	10719	187	10416	275	10284	319	10160	363		
			1150	17550	175	17155	310	16852	445	16719	512	16596	580		
1630	450	10.52	750	12346	109	11907	207	11571	304	11424	353				
			1150	19495	190	19057	340	18720	490	18573	565				
1633	500	11.57	750	13578	119	13096	226	12726	334	12564	388				
			1150	21441	205	20959	369	20589	534	20427	617				
1642	600	14.73	750	17287	148	16672	285	16201	422						
			1150	27297	250	26683	460	26212	670						
1648	600	16.83	750	19751	167	19049	324								
			1150	31189	280	30487	520								
PARAMETERS OF 18" BLOWERS															
1824	400	10.65	750	12499	119	12054	218	11714	317	11565	367	11426	416	11173	515
			950	16117	167	15673	292	15333	418	15184	480	15045	543	14792	668
1833	500	14.87	750	17451	159	16831	297	16355	435	16147	504				
			950	22504	216	21884	391	21408	567	21200	654				
1838	500	16.9	750	19933	177	19270	335	18761	492	18539	570				
			950	25676	240	25013	439	24504	638	24282	738				
1842	600	18.64	750	21986	194	21254	367	20693	540						
			950	28320	261	27588	480	27027	700						
1849	600	21.8	750	25907	223	25131	426	24536	628						
			950	33314	298	32539	555	31944	812						
1854	600	24	750	28948	243	28270	467								
			950	37103	324	36426	607								
PARAMETERS OF 20" BLOWERS															
2024	400	13	750	15757	142	15422	264	15165	385	15053	445	14949	506	14758	626
			950	20174	198	19839	351	19583	504	19470	581	19366	657	19175	810
2033	600	18.2	750	22114	191	21667	360	21325	530	21175	614	21036	699		
			950	28298	259	27851	473	27509	688	27359	795	27220	902		
2037	600	20.3	750	24725	211	24252	400	23889	588	23731	683				
			950	31623	284	31150	523	30787	762	30629	882				
2044	600	24.1	750	29425	246	28893	470	28485	694	28306	806				
			950	37614	328	37082	612	36674	896	36496	1038				
2048	600	26.1	750	31944	265	31400	507	30982	750						
			950	40813	352	40269	659	39851	967						
2064	750	35.07	750	43130	348	42485	674								
			950	55047	458	54402	871								
PARAMETERS OF 22" BLOWERS															
2224	450	15.9	750	19131	180	18663	328	18303	476	18147	550	18001	624	17734	772
			950	24533	253	24065	441	23706	628	23549	722	23404	815	23137	1003
2231	600	20.55	750	24908	224	24379	415	23973	606	23795	701	23630	797		
			950	31891	308	31362	550	30955	792	30778	913	30613	1034		
2242	600	27.85	750	33756	291	33039	550	32488	809	32248	939				
			950	43220	394	42502	722	41952	1050	41711	1214				
2248	600	31.82	750	38568	328	37748	624	37120	920						
			950	49380	441	48561	816	47932	1191						
2266	750	43.76	750	53299	439	52279	846								
			950	68169	582	67149	1097								

Note :

1 Pressure rating based on inlet air at standard pressure of 14.7 psia. Standard temperature of 70°F and specific gravity of 1.0.
2 Forced lubrication for oil cooling shall be provided in 18" to 22" model.
3 All specifications are subject to change without notice.
4 Performance testing as per BS 1571 Part-II.

PERFORMANCE DATA TWIN-LOBE BLOWERS

TWIN-LOBE BLOWERS

PERFORMANCE DATA

INDIANA SERIES

FRAME SIZE	INLET/ OUTLET	SPEED RPM	1000 M/HR.	MMWG BHP	2000 M/HR.	MMWG BHP	3000 M/HR.	MMWG BHP	4000 M/HR.	MMWG BHP	5000 M/HR.	MMWG BHP	6000 M/HR.	MMWG BHP	7000 M/HR.	MMWG BHP	8000 M/HR.	MMWG BHP	9000 M/HR.	MMWG BHP
2LK	50	1160	37	0.27	24	0.55	14	0.82	5	1.09										
		2000	87	0.47	74	0.94	63	1.42	55	1.89	47	2.36								
		3600	182	0.85	169	1.70	159	2.55	150	3.40	142	4.25								
3MK	50	1160	87	0.47	74	0.94	64	1.41	56	1.88	49	2.35								
		2000	173	0.81	160	1.62	150	2.43	142	3.24	134	4.04	128	4.85	121	5.66	116	6.47	112	7.28
		3600	336	1.46	323	2.91	313	4.37	305	5.82	297	7.28	291	8.74	285	10.19	279	11.65	275	13.10
3LK	65	1160	157	0.81	137	1.63	122	2.44	109	3.25	98	4.07								
		2000	305	1.40	286	2.80	270	4.21	258	5.61	246	7.01								
		3600	588	2.52	568	5.05	553	7.57	540	10.09	529	12.62								
4MK	65	1160	177	0.91	155	1.83	138	2.74	124	3.66	111	4.57	100	5.49	89	6.40	80	7.32		
		2000	344	1.58	322	3.15	305	4.73	291	6.31	278	7.89	267	9.46	256	11.04	247	12.62		
		3600	662	2.84	640	5.68	623	8.52	609	11.36	596	14.20	585	17.03	574	19.87	565	22.71		
4LK	80	1160	262	1.33	231	2.66	208	3.99	188	5.32	171	6.65								
		2000	504	2.29	474	4.58	451	6.88	431	9.17	414	11.46								
		3600	966	4.13	936	8.25	913	12.38	893	16.50	876	20.63								
5MK	100	700	190	0.99	165	1.98	146	2.97	130	3.96	116	4.95								
		1760	568	2.49	543	4.98	524	7.47	508	9.96	494	12.46	481	14.95	470	17.44	459	19.93		
		2850	957	4.03	932	8.07	913	12.10	897	16.14	883	20.17	870	24.20	859	28.24	848	32.27		
5LK	100	700	327	1.65	290	3.30	261	4.95	237	6.61	216	8.26								
		1760	957	4.15	920	8.30	892	12.46	868	16.61	847	20.76								
		2850	1605	6.72	1568	13.45	1540	20.17	1516	26.89	1495	33.62								
6MK	125	700	366	1.81	328	3.61	300	5.42	276	7.23	255	9.04								
		1760	1055	4.54	1018	9.09	990	13.63	966	18.17	944	22.72	925	27.26	908	31.80	891	36.35	880	40.89
		2350	1439	6.07	1402	12.13	1374	18.20	1350	24.27	1328	30.33	1309	36.40	1292	42.47	1275	48.53	1264	54.60
6LK	125	700	708	3.39	648	6.78	601	10.16	562	13.55	528	16.94								
		1760	2001	8.52	1941	17.04	1894	25.55	1855	34.07	1821	42.59								
		2350	2721	11.37	2660	22.75	2614	34.12	2575	45.49	2541	56.86								
7MK	150	575	590	2.84	538	5.68	498	8.52	464	11.36	435	14.20	408	17.05	383	19.89	360	22.73		
		1400	1618	6.92	1566	13.83	1526	20.75	1492	27.67	1462	34.58	1435	41.50	1411	48.42	1388	55.34		
		2050	2427	10.13	2375	20.26	2335	30.38	2301	40.51	2272	50.64	2245	60.77	2220	70.90	2197	81.03		
7LK	200	575	991	4.65	916	9.30	859	13.95	811	18.60	768	23.25								
		1400	2673	11.32	2598	22.65	2541	33.97	2493	45.29	2450	56.62								
		2050	4016	16.58	3949	33.16	3897	49.74	3853	66.32	3814	82.91								
8LK	250	1100	3015	12.90	2917	25.80	2842	38.70	2778	51.60	2722	64.50	2672	77.41	2625	90.31				
		1260	3488	14.78	3390	29.55	3315	44.33	3251	59.11	3195	73.89	3145	88.66	3098	103.44				
		1575	4419	18.47	4321	36.94	4246	55.42	4182	73.89	4127	92.36	4076	110.83	4030	129.30				

Note :
1. Pressure Rating Based On Inlet Air At Standard Pressure Of 14.7 Psia, Standard Temperature of 70° F, And Specific Gravity Of 1.0.
2. Vacuum Rating Based On Inlet Air At Standard Temperature Of 70° F, Discharge Pressure of 30" Hg And Specific Gravity Of 1.0.
3. All Specifications Are Subject To Change Without Notice.
4. Performance Testing As Per BS 1571 Part-II. Above 7000 Mmwg Pressure, Watercooled Arrangement Shall Be Provided.

PERFORMANCE DATA - K3H SERIES

PRESSURE		INLET / OUTLET (MM)	200mbar		300mbar		400mbar		500mbar		600mbar		700mbar		800mbar		900mbar		1000mbar	
MODEL	RPM		M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW	M^3/hr	KW
K3H 303	1000	100	135	1.1	121	1.6	110	2.1	100	2.7	91	3.2	83	3.7	75	4.3	68	4.8	61	5.3
	1500		200	1.6	219	2.4	207	3.2	197	4	188	4.8	180	5.6	172	6.4	165	7.2	158	8
	3000		524	3.6	511	5.2	499	6.8	489	8.4	480	10	472	11.6	464	13.2	457	14.8	450	16.4
	3600		641	4.6	627	6.5	616	8.4	606	10.3	597	12.2	589	14.1	581	16.1	574	18	567	19.9
K3H 306	1000	125	301	2.2	281	3.3	263	4.3	248	5.4	234	6.5	221	7.6	209	8.6	197	9.7	187	10.8
	1500		499	3.4	478	5	460	6.6	445	8.2	431	9.8	418	11.4	406	13	395	14.6	384	16.2
	3000		1090	7.6	1069	10.8	1051	14	1036	17.2	1022	20.4	1009	23.7	997	26.9	986	30.1	975	33.3
	3600		1326	9.7	1305	13.5	1288	17.4	1272	21.3	1258	25.1	1246	29	1234	32.9	1222	36.7	1212	40.6
K3H 309	1000	150	439	3.1	413	4.6	392	6.1	373	7.6	355	9.1	340	10.6	325	12.1	311	13.6	298	15.1
	1500		715	4.7	689	7	668	9.2	649	11.5	632	13.7	616	16	601	18.2	587	20.5	574	22.8
	3000		1543	10.7	1517	15.2	1496	19.7	1477	24.2	1460	28.7	1444	33.2	1429	37.7	1416	42.2	1403	46.8
	3600		1874	13.7	1849	19.1	1827	24.5	1808	29.9	1791	35.3	1775	40.7	1761	46.2	1747	51.6	1734	57
K3H 322	700	200	784	5.4	739	8.1	700	10.8	667	13.5	637	16.2	609	18.8	583	21.5	558	24.2	535	26.9
	1500		1909	12.1	1864	17.9	1826	23.6	1792	29.4	1762	35.1	1734	40.9	1708	46.6	1684	52.4	1661	58.1
	2000		2613	16.9	2567	24.5	2529	32.2	2496	39.8	2465	47.5	2437	55.2	2411	62.8	2387	70.5	2364	78.1
	3000		4019	28.2	3974	39.7	3936	51.2	3902	62.7	3872	74.1	3844	85.6	3818	97.1	3794	108.6	3771	120.1
K3H 342	700	250	1389	9.4	1321	14	1263	18.6	1213	23.2	1167	27.8	1125	32.4	1086	37	1049	41.6	1014	46.2
	1500		3323	21.4	3255	31.3	3197	41.2	3147	51.1	3101	60.9	3059	70.8	3020	80.7	2983	90.6	2948	100.4
	2000		4532	30.4	4464	43.5	4406	56.7	4356	69.8	4310	83	4268	96.2	4229	109.3	4192	122.5	4157	135.7
	2400		5499	38.6	5131	54.3	5373	70.1	5323	85.9	5277	101.7	5235	117.5	5196	133.3	-	-	-	-
K3H 370	700	250	2556	16.5	2461	24.6	2381	32.7	2311	40.8	2247	49	2188	57.1	2134	65.2	2082	73.3	2034	81.4
	1500		5961	37.7	5866	55	5786	72.4	5716	89.8	5652	107.2	5593	124.5	5538	141.9	5487	159.3	5439	176.7
	1900		7664	49.9	7569	71.9	7488	93.9	7418	116	7354	138	7295	160	7241	182	-	-	-	-
K3H 390	700	300	3368	21.4	3258	31.9	3165	42.4	3084	52.9	3010	63.4	2942	73.9	2878	84.4	2819	94.9		
	1500		7777	49	7667	71.5	7575	94	7493	116.5	7419	139	7351	161.5	7288	184	7228	206.5		
	1800		9431	60.8	9321	87.9	9228	114.9	9146	141.9	9072	168.9	9004	195.9	8941	222.9	-	-		
K3H 3110	700	350	4073	26.3	3946	39.2	3839	52.1	3745	64.9	3659	77.8								
	1500		9376	60.6	9248	88.2	9141	115.8	9047	143.3	8961	170.9								
	1800		11364	75.5	11237	108.6	11130	141.7	11035	174.8	-	-								

Note :
1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm2, specific gravity 1.0
2. Vacuum ratings are based on inlet air at standard temperature of 104°F, discharge pressure 30" Hg and specific gravity of 1.0
3. Performance testing as per BS 1571, Part-II
4. Above 7000 MMWG pressure, water cooled arrangement shall be provided.
5. All specifications are subject to change without notice.

TRI-LOBE BLOWERS

PERFORMANCE DATA

PERFORMANCE DATA 3HVP SERIES (VACUUM)

MODEL	INLET/ OUTLET (MM)	RPM	VACUUM 20%		VACUUM 30%		VACUUM 40%		VACUUM 50%		VACUUM 60%		VACUUM 70%		VACUUM 80%		VACUUM 90%		VACUUM 93%	
			m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW	m^3/hr	KW
KAIV 310	125	3500	1449	12	1417	16	1383	20	1344	24	1290	28	1195	33	965	37	267	41	-	-
		3110	1275	10	1243	14	1209	18	1170	22	1116	25	1021	29	791	33	93	37	-	-
		2920	1191	10	1159	13	1125	17	1086	20	1031	24	936	27	707	31	BO	34	-	-
		2640	1067	9	1035	12	1001	15	962	19	907	22	812	24	583	28	-	31	-	-
		2350	938	8	906	11	872	14	833	17	778	20	683	22	454	24	-	-	-	-
KAIV 320	150	3300	2092	16	2029	21	1964	27	1889	34	1784	40	1602	47	1159	52	145	59	-	-
		3110	1959	15	1896	20	1832	26	1757	32	1652	38	1470	44	1026	49	BO	56	-	-
		2940	1841	14	1778	19	1714	24	1639	30	1534	36	1352	41	908	47	-	53	-	-
		2740	1702	13	1639	18	1574	23	1499	28	1394	33	1212	39	769	44	-	-	-	-
		2550	1570	12	1507	16	1442	21	1367	27	1262	31	1080	36	637	41	-	-	-	-
		2150	1292	10	1229	14	1163	18	1088	23	983	26	801	30	359	34		-	-	-
KAIV 322	200	2900	3917	26	3854	38	3788	48	3713	60	3606	71	3423	82	2977	94	1955	106	BO	110
		2660	3576	24	3512	35	3446	44	3371	55	3265	65	3082	75	2635	86	1613	97	-	-
		2370	3164	22	3100	31	3034	40	2959	49	2853	58	2670	67	2223	77	1201	87	-	-
		2090	2766	19	2702	27	2636	35	2561	43	2455	51	2272	59	1825	68	802	76	-	-
		1800	2353	17	2289	24	2223	30	2148	37	2042	44	1859	51	1412	58	390	65	-	-
		1550	1998	15	1934	20	1868	26	1793	32	1687	38	1504	44	1057	50	34	56	-	-
KAIV 340	300	2500	5817	40	5700	58	5577	75	5468	87	5278	104	4807	121	3783	138	1061	157	BO	162
		2250	5190	36	5070	52	4944	68	4832	78	4639	93	4180	109	3178	125	426	141	-	-
		2090	4788	34	4667	48	4539	63	4426	72	4230	87	3778	101	2791	116	BO	131	-	-
		1780	4010	29	3886	41	3754	53	3638	62	3437	74	2999	86	2040	98	-	110	-	-
		1350	2931	22	2804	31	2665	41	2546	47	2338	56	1919	66	1000	75	-	-	-	-
		750	1426	12	1290	17	1146	23	1021	26	804	31	413	37	-	41	-	-	-	-
KAIV 3702	300	1900	7935	52	7826	71	7712	96	7585	121	7401	143	7085	165	6319	189	4559	213	BO	221
		1700	7062	47	6953	66	6839	86	6712	108	6528	128	6212	148	5446	169	3686	199	-	-
		1520	6277	42	6168	59	6054	77	5927	97	5743	115	5427	132	4661	151	2901	170	-	-
		1340	5492	37	5382	52	5268	67	5141	85	4957	101	4641	117	3875	134	2116	150	-	-
		1150	4663	32	4553	45	4439	58	4312	73	4128	87	3812	100	3046	115	1287	129	-	-
		750	2918	21	2808	29	2694	37	2567	48	2383	56	2067	66	1301	75	BO	84	-	-

Note :
1. Actual capacities for inlet temperature t1=20°C (at sea level).
2. Performance guaranteed upto 40°C ambient temperature.
3. B O = Blanked off

PERFORMANCE DATA - K3H NEW SERIES

MODEL	RPM	INLET / OUTLET SIZE mm	200mbar		300mbar		400mbar		500mbar		600mbar		700mbar		800mbar		900mbar		1000mbar	
			Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw	Cu.M/hr	Bkw
K3H-3440	800	200/200	924	6.2	879	9.3	841	12.4	808	15.4	777	18.5	749	21.5	723	24.6	699	27.7	676	30.7
	1200		1487	9.5	1442	14.1	1404	18.7	1370	23.3	1340	27.9	1312	32.5	1286	37.1	1262	41.7	1239	46.3
	1600		2050	13.0	2005	19.2	1967	25.3	1933	31.4	1903	37.6	1875	43.7	1849	49.8	1824	55.9	1801	62.1
	2100		2753	17.9	2708	25.9	2670	34.0	2636	42.0	2606	50.0	2578	58.1	2552	66.1	2528	74.2	2505	82.2
K3H-3533	800	200/200	1154	7.6	1105	11.3	1064	15.1	1028	18.8	995	22.5	-	-	-	-	-	-	-	-
	1200		1841	11.6	1792	17.2	1750	22.8	1714	28.4	1681	34.0	-	-	-	-	-	-	-	-
	1600		2527	15.9	2478	23.3	2437	30.8	2400	38.3	2367	45.7	-	-	-	-	-	-	-	-
	2000		3385	21.7	3336	31.5	3295	41.3	3258	51.1	3225	60.9	-	-	-	-	-	-	-	-
K3H-3475	800	250/250	1631	10.8	1563	16.1	1505	21.3	1454	26.6	1409	31.8	1367	37.1	1327	42.4	1291	47.6	1256	52.9
	1200		2598	16.7	2530	24.6	2472	32.5	2422	40.4	2376	48.3	2334	56.2	2294	64.1	2258	72.0	2223	79.8
	1600			23.1	3497	33.7	3439	44.2	3389	54.7	3343	65.2	3301	75.8	3262	86.3	3225	96.8	3190	107.4
	2000		4774	32.2	4706	46.1	4648	59.9	4597	73.8	4552	87.6	4510	101.4	4470	115.2	4434	129.1	4399	142.9
K3H-3660	800	300/300	2381	15.3	2299	22.8	2230	30.2	2169	37.7	2114	45.2	2063	52.7	2016	60.1	-	-	-	-
	1100		3410	21.4	3328	31.7	3259	42.0	3198	52.3	3143	62.6	3093	72.8	3045	83.1	-	-	-	-
	1600		5126	32.7	5044	47.6	4975	62.5	4914	77.5	4859	92.4	4809	107.4	4761	122.3	-	-	-	-
	2100		6842	45.4	6760	65.0	6691	84.7	6630	104.3	6575	123.9	-	-	-	-	-	-	-	-
K3H-3812	800	350/350	2964	18.8	2870	28.0	2790	37.3	2720	46.5	2656	55.7	-	-	-	-	-	-	-	-
	1200		4656	29.0	4562	42.8	4482	56.6	4412	70.5	4349	84.3	-	-	-	-	-	-	-	-
	1600		6349	40.1	6254	58.5	6174	76.9	6104	95.4	6041	113.8	-	-	-	-	-	-	-	-
	2100		8464	55.7	8369	79.9	8290	104.0	8220	128.2	8156	152.4	-	-	-	-	-	-	-	-
K3H-3690	800	350/350	3919	24.6	3809	36.6	3716	48.6	3635	60.6	3561	72.6	3493	84.6	3429	96.6	-	-	-	-
	1100		5573	34.6	5463	51.1	5370	67.6	5288	84.1	5214	100.6	5146	117.1	5083	133.6	-	-	-	-
	1500		7777	49.0	7667	71.5	7575	94.0	7493	116.5	7419	139.0	7351	161.5	7288	184.0	-	-	-	-
	1760		9210	60.8	9100	85.6	9008	112.0	8926	138.4	8852	164.8	8784	191.2	8721	217.6	-	-	-	-
K3H-3840	800	400/400	4736	29.7	4609	44.1	4502	58.6	4407	73.0	4322	87.4	-	-	-	-	-	-	-	-
	1100		6725	41.8	6597	61.7	6490	81.5	6396	101.3	6310	121.2	-	-	-	-	-	-	-	-
	1500		9376	59.5	9248	86.6	9141	113.6	9047	140.7	8961	167.7	-	-	-	-	-	-	-	-
	1760		11099	72.2	10972	103.9	10864	135.7	10770	167.4	10685	199.2	-	-	-	-	-	-	-	-
K3H-3860	800	400/400	7693	48.7	7519	71.8	7372	94.8	7243	117.9	7126	140.9	7018	164.0	6918	187.0	6824	210.1	6735	233.1
	1000		9810	62.7	9636	91.5	9489	120.3	9360	149.2	9243	178.0	9135	206.8	9035	235.6	8941	264.4	8852	293.2
	1200		11927	77.9	11753	112.5	11606	147.1	11477	181.7	11360	216.2	11252	250.8	11152	285.4	11058	320.0	10969	354.6
K3H-31130	800	450/450	10272	63.4	10070	93.8	9899	124.3	9749	154.7	9613	185.1	9488	215.5	-	-	-	-	-	-
	1000		13065	81.1	12863	119.1	12692	157.2	12542	195.2	12406	233.2	12281	271.2	-	-	-	-	-	-
	1200		12858	100.0	15656	145.6	15485	191.3	15335	236.9	15199	282.5	15074	328.1	-	-	-	-	-	-
K3H-31370	800	500/500	12468	76.1	12236	112.8	12041	149.6	11870	186.3	-	-	-	-	-	-	-	-	-	-
	1000		15842	96.9	15611	142.9	15416	188.8	15244	234.7	-	-	-	-	-	-	-	-	-	-
	1200		19216	119.0	18985	174.1	18790	229.2	18618	284.3	-	-	-	-	-	-	-	-	-	-

Note :
1. The above ratings are based on inlet air temperature of 104°F, ambient pressure 1 kg/cm2, specific gravity of 1,0.
2. Vacuum rating are based on inlet air at standard temperature of 104°F, discharge pressure 30"HG and specific gravity of 1,0.
3. Performance testing as per BS 1571 Part II.
4. Above 7000 MMWG pressure water cooled arrangement shall be provided.
5. All specifications are subject to change without notice.

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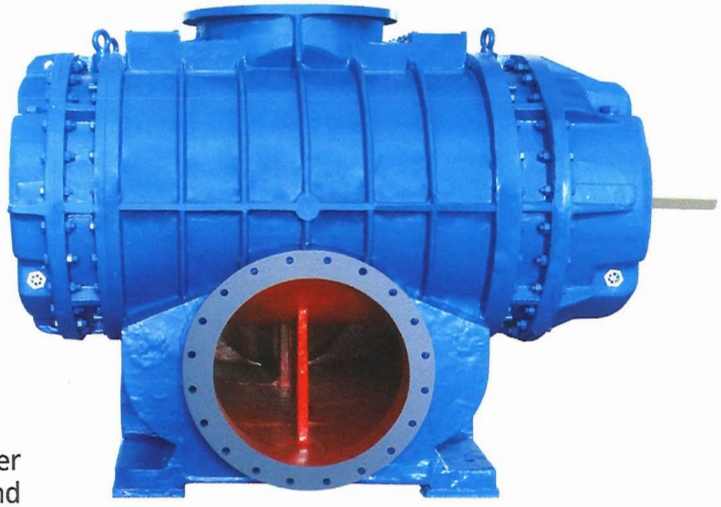
KIL/BLR/201701

2KHC SERIES

Positive Displacement Air Blowers

Edition : MY-9/2013



Sizes - 16", 18", 20" & 22"

Based on Success

KAY International is one of the world's leading air blower manufacturers and have a reputation for quality, innovation and service.

Design Features

The conservative load carrying capacity of the larger diameter rolling element bearings ensures an extended operating life.

Timing gear life is also extended by controlled lubrication systems.

The computer calculated impeller profiles ensure maximum volumetric efficiency with minimum absorbed power without sacrificing torsional rigidity.

The high rigidity of the impeller/shafts permits a higher pressure rise to be obtained than with other machines of comparable size.

Precision ground and hardened steel gears are used to ensure smooth, silent running and accurate timing of the rotating impellers.

CASINGS are newly designed one piece style, including extra deep rib sections for greater rigidity under vacuum of pressure service. In many of the longer cases inspection ports are provided to give access for internal and clearance checks.

Selected sizes of Series 16" to 22" have larger inlet and discharge ports to accommodate greater air flows while retaining conservative air velocity.

STEEL SHAFTS are made from alloy steel [BS:970 series of steel] toughened to resist bending and for imparting high fatigue life. The shrink fit through the impeller eliminates torsional deflection and permits increased pressure ratings and greater efficiencies.

IMPELLERS are accurately machined for close tolerance operation, dynamically balanced for smooth running and lower bearing loads.

Series 16" units have high density Cast Iron impellers.

Series 18"/22" units have Ductile Iron impellers allowing higher rotating speeds.

BEARINGS are of generous proportions to give long operational life.

Cylindrical Roller Bearings with a cage can accommodate heavy radial loads, fast accelerations and high speeds. These high-capacity cylindrical roller bearings combine the high load carrying capacity of a full complement bearing with the high speed capability of a bearing with a cage.

Spherical Roller Bearings are designed to accommodate heavy radial loads, as well as heavy axial loads in both direction.

TIMING GEARS of chrome molybdenum steel, heat treated, quenched and ground for greater loading capacity and lower noise level. Gears are attached to timing

hubs through a set of high tensile torque bolts. Taper Fit arrangement is provided for reduced maintenance.

This positive drive arrangement permits easy field maintenance, retiming and other repair work without hydraulic jacks, etc.

Timing gears in 16" through 22" are of helical design for quieter operation at higher horsepower loadings.

LUBRICATION of the basic units in the Series 18" to 22" feature trouble-free splash lubrication of all bearings and timing gears. Generous size sumps are located in the gear cover and drive cover.

A full force feed lubrication system is available as an option. This system features and automatically reversible, shaft mounted pump, with an oil strainer and by-pass relief valve. Oil is delivered to all bearings and to the timings gears from a single large sump in the gear cover.

User Benefits

- The delivered air is guaranteed to be oil free because internal lubrication is unnecessary and because all KAY Positive Displacement Air Blowers are constructed with air gaps which completely isolate bearing and gear lubrication from the compression chamber.
- Noise levels are kept to a minimum. Mechanical noise levels are reduced by the running accuracy of the timing hub mounting as well as taper mounted gears. Air noise is reduced by carefully designed air ports and the elimination of resonant unbraced surfaces.
- A patented blower protection device can be supplied. This is designed to trip the drive motor and shut down the blower if the internal clearances are reduced to a dangerous level and can be supplied at extra cost.
- All machines are performance tested under the most arduous design conditions before despatch.

PARAMETERS OF 16" BLOWERS

Size	Inlet and dishch dia (mm)	DISPL. CFR	RPM	2000 MMWG		4000 MMWG		6000 MMWG		7000 MMWG		8000 MMWG		10000 MMWG	
				M³/HR	BHP	M³/HR	BHP	M³/HR	BHP	M³/HR	BHP	M³/HR	BHP	M³/HR	BHP
1620	350	7.02	750	8072	76	7711	142	7433	207	7312	239	7199	272	6993	337
			1150	12843	140	12481	240	12204	340	12083	390	11970	440	11764	540
1627	400	9.47	750	11114	99	10719	187	10416	275	10284	319	10160	363		
			1150	17550	175	17155	310	16852	445	16719	512	16596	580		
1633	500	11.57	750	13578	119	13096	226	12726	334	12564	388				
			1150	21441	205	20959	369	20589	534	20427	617				
1642	600	14.73	750	17287	148	16672	285	16201	422						
			1150	27297	250	26683	460	26212	670						
1648	600	16.83	750	19751	167	19049	324								
			1150	31189	280	30487	520								

PARAMETERS OF 18" BLOWERS

1824	400	10.65	750	12499	119	12054	218	11714	317	11565	367	11426	416	11173	515
			950	16117	167	15673	292	15333	418	15184	480	15045	543	14792	668
1838	500	16.9	750	19933	177	19270	335	18761	492	18539	570				
			950	25676	240	25013	439	24504	638	24282	738				
1849	600	21.8	750	25907	223	25131	426	24536	628						
			950	33314	298	32539	555	31944	812						
1854	600	24	750	28948	243	28270	467								
			950	37103	324	36426	607								

PARAMETERS OF 20" BLOWERS

2024	400	13	750	15757	142	15422	264	15165	385	15053	445	14949	506	14758	626
			950	20174	198	19839	351	19583	504	19470	581	19366	657	19175	810
2033	600	18.2	750	22114	191	21667	360	21325	530	21175	614	21036	699		
			950	28298	259	27851	473	27509	688	27359	795	27220	902		
2037	600	20.3	750	24725	211	24252	400	23889	588	23731	683				
			950	31623	284	31150	523	30787	762	30629	882				
2044	600	24.1	750	29425	246	28893	470	28485	694	28306	806				
			950	37614	328	37082	612	36674	896	36496	1038				
2048	600	26.1	750	31944	265	31400	507	30982	750						
			950	40813	352	40269	659	39851	967						
2064	750	35.07	750	43130	348	42485	674								
			950	55047	458	54402	871								

PARAMETERS OF 22" BLOWERS

2224	450	15.9	750	19131	180	18663	328	18303	476	18147	550	18001	624	17734	772
			950	24533	253	24065	441	23706	628	23549	722	23404	815	23137	1003
2231	600	20.55	750	24908	224	24379	415	23973	606	23795	701	23630	797		
			950	31891	308	31362	550	30955	792	30778	913	30613	1034		
2242	600	27.85	750	33756	291	33039	550	32488	809	32248	939				
			950	43220	394	42502	722	41952	1050	41711	1214				
2248	600	31.82	750	38568	328	37748	624	37120	920						
			950	49380	441	48561	816	47932	1191						
2266	750	43.76	750	53299	439	52279	846								
			950	68169	582	67149	1097								

1. Pressure rating based on inlet air at standard pressure of 14.7 psia. Standard temperature of 70° F and specific gravity of 1.0.
2. Forced lubrication for oil cooling shall be provided in 18" to 22" model
3. All specifications are subject to change without notice.
4. Performance testing as per BS 1571 Part-II.

ISO 9001:2008

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