

Legend® Series

Positive Displacement Blowers
& Vacuum Pumps



GD
GARDNER DENVER™

Experience Proven Results™

Sutorbilt Legend Series

Setting the Industry Standard

The Gardner Denver Sutorbilt® Legend® line of rotary positive displacement lobe blowers and vacuum pumps are the result of more than 150 years experience in the design, manufacture and support of superior industrial equipment.

- Available in 20 sizes with 4 different configurations
- The Legend Series delivers
 - Pressure to 15 psig
 - Vacuum to 16" Hg
 - Flows to 3,015 cfm

Why the Sutorbilt line of blowers and vacuum pumps earned the name "Legend"

- Backed by the most experienced and trusted distributor network in the industry
- Every Sutorbilt Legend blower/vacuum pump is built under rigid ISO 9001:2000 quality standards
- Each Legend is individually tested to meet rigorous performance specifications
- Requested by leading Original Equipment Manufacturers (OEMs) worldwide for a wide range of applications, due to the ability to customize the Legend to their specifications while meeting strict performance requirements
- A Legend is at the heart of an ever-expanding variety of air solutions working every minute of every day around the globe
- Dual Splash Lubricated and Quiet Series (for up to 5 dBA reduction) are available

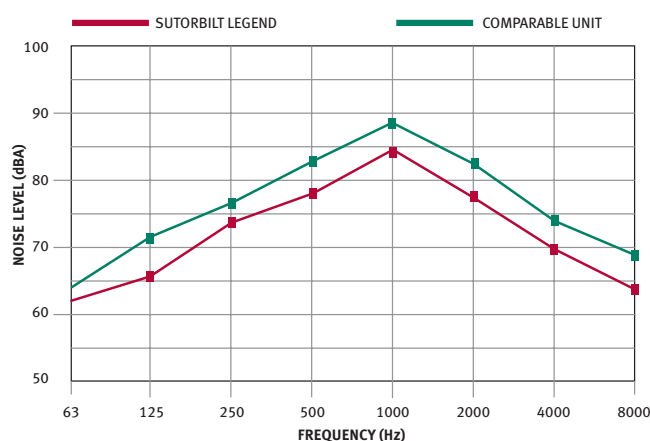


Proven Performance. Global Applications. Local Support.

QUIET OPERATION

The sound data shown below compares the Legend (red) and a comparably sized blower (green) operating at 3,275 rpm and 12 psig.

- Improved blower design reduces the sound pressure output of the Legend blower
- Typical reduction is 3 dBA which represents 50% less noise than the competition



SUPERIOR LOCAL SALES AND SERVICE

- Extensive network of authorized Gardner Denver/ Sutorbilt distributors
- Offers the most convenient local sales and service support in the industry
- Factory trained professionals are experts in blower/ vacuum pump technology
- Providing system installation guidance, troubleshooting and optimization recommendations for new or existing applications

EVEN A “LEGENDARY” WARRANTY

Every Sutorbilt Legend Series blower/vacuum pump is covered by a “Legendary” warranty:

- **24 months** from the date of shipment or
- **18 months** from the date of installation, whichever occurs first

INDUSTRY	APPLICATION
Aquaculture	Aeration
Cement & Lime	Fluidization & Conveying
Chemical	Vacuum Processing & Conveying
Coal Bed/Landfill	Methane Gas Recovery
Dairy	Automated Milking
Dry Bulk Hauling	Trailer Unloading & Aeration
Environmental Services	Sewer Cleaning & Portable Restroom Services
Industrial	Material Vacuuming
Milling & Baking	Blending & Conveying
Oil & Gas	Gas Collection & Sparging
Power Generation	Fly Ash Conveying & Aeration
Process Gas	Gas Boosting
Pulp & Paper	Chip Conveying & Process Vacuum
Resin & Plastic	Processing & Conveying
Soil Remediation	Vacuum Extraction & Sparging
Vacuum Excavation	Potholing & Slurry Recovery
Wastewater	Aeration & Backwashing

The above table illustrates industries which depend upon the Sutorbilt® Legend® to deliver clean, oil-free air to a wide range of global applications.

Legendary Design Features

1 High-strength impeller case is heavily ribbed and machined from a single piece of cast iron and features oversized dowel pins for precise mounting and alignment of head plates

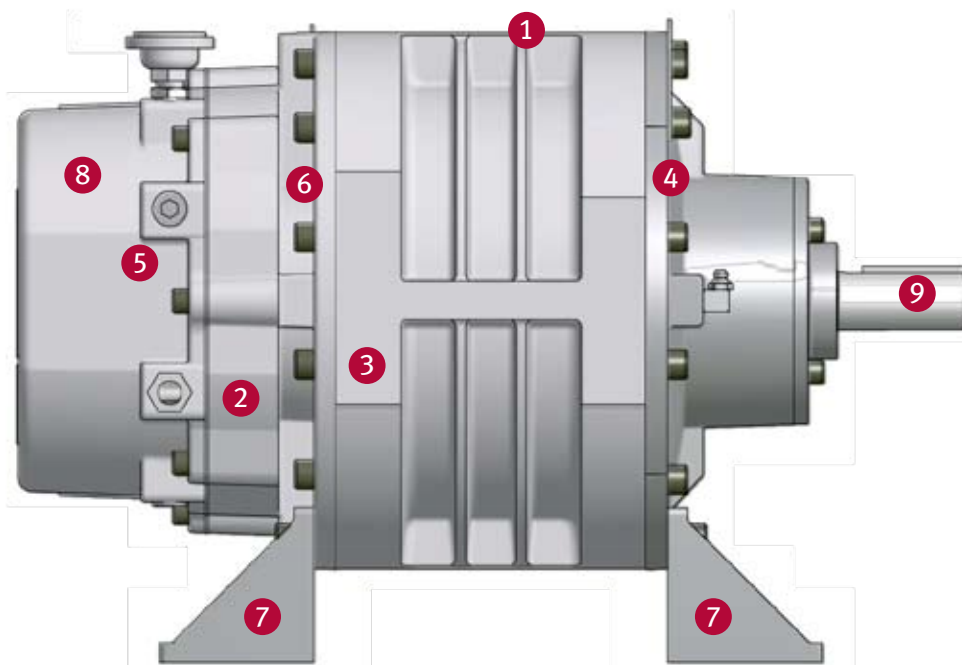
- Results in reduced noise and more stable, vibration-free operation

2 Head plates, machined from cast iron, are ground on the interior surface to precise operating tolerances. Bearing fits are machined into head plates to assure exact bearing positioning

- Ensures accurate, fixed-dimension clearances through all blower operating conditions and temperature ranges

3 Impellers are machined from cast iron to an exact profile and are permanently fastened to steel shafts. They are dynamically balanced for smooth operation in any assembled position

- Provides extra strength and rigidity to handle continuous maximum loads without fatigue or deflection



4 Anti-friction bearings are used exclusively (table at right)

- Optimum bearing selection provides longer blower life and added overhung shaft load capacity

Gear diameter	Single row ball	Double row ball	Cylindrical roller	Spherical roller
2"	•			
3-4"	•		•	
5"		•	•	
6-8"		•		•



2MP LHC

3MR RHC

4LVR BHC

5MR RHC

5 3–6" R versions feature improved timing and ease of teardown/rebuild through grip rings, which expand against the bore and compress on the shaft for a secure, mechanical shrink fit. 2, 7 and 8" P versions feature precision machines alloy steel timing gears, permanently pinned to the shafts.

- Assures non-slip timing even under the most strenuous loading conditions

6 High temperature Viton® oil seals

- Maximizes the seal life in continuous, severe-duty applications to provide leak-free operation

7 Flex-Mount™ design on 2, 7 and 8" blowers is adaptable to either vertical or horizontal installation, while 3–6" R-version blowers have universal feet

- The feet are precisely machined and match the footprints of many competitive units

8 Timing gears and gear end bearings are splash lubricated utilizing an abundant oil reservoir. A non-asbestos graphite gasketed, oil-tight housing encloses the timing gears. Drive end bearings are grease lubricated through fittings. Lip-type seals prevent oil and grease from entering the impeller chamber

- Superior gear and bearing lubrication is assured at all operating conditions with minimal maintenance

9 High strength steel drive shaft is extended for V-belt drive or direct connection

- Provides greater blower durability and installation flexibility

Available with Mechanical Gas Seals

The Legend design accommodates mechanical gas seals for critical gas applications with proven results based on a large installed base

- This field proven seal design allows trouble-free operation in critical gas applications

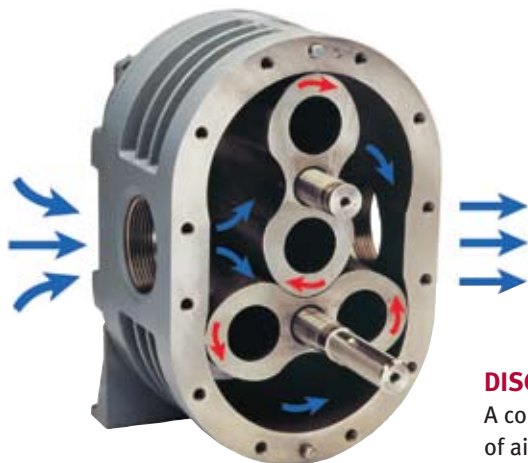


6HVR BHC

7MVP BHC

8HVP BHC

The Sutorbilt Legend Design



INTAKE

A constant volume of air or gas is drawn into the cylinder by the action of the turning impellers.

DISCHARGE

A constant volume of air or gas is forced out through the discharge port.

TRANSFER

A constant volume of trapped air or gas is transferred around the cylinder to the discharge port.

Universal Foot & Flex-Mount™ Design Provides Maximum Installation Versatility

- 3–6" R versions feature the "universal" mounting feet which allow them to be mounted in vertical and horizontal configurations
- 2", 7" & 8" P versions feature Flex-Mount™ design creating interchangeability on existing and new applications



Universal Foot



Horizontal Configuration,
Right Hand Drive



Vertical Configuration,
Bottom Hand Drive



Horizontal Configuration,
Left Hand Drive



Vertical Configuration,
Top Hand Drive

The Sutorbilt PD Cycle

- Two figure-eight impellers turn in opposite directions within a machined housing
- Transferring a constant volume of air or gas from inlet to discharge with every rotation of the blower drive shaft
- No lubrication within the cylinder is required
- Rotating components are held in close tolerance do not contact each other
- Impeller positioning is maintained by precision timing gears affixed to each impeller shaft
- Gear and bearing lubrication occurs externally to the cylinder assuring clean, oil-free gas delivery under all operating conditions

State-of-the-Art Quality

The Gardner Denver line of Sutorbilt Legend blowers and vacuum pumps are engineered and manufactured under strict ISO 9001:2000 quality standards in our 330,000 square feet state-of-the-art facility in Sedalia, MO (photo below)

- Gardner Denver makes it a priority to invest in highly skilled people who take pride in producing quality products
- Our Flexible Machining System (FMS) assures consistent production of the highest quality Legend components
- Attention to detail is found throughout the manufacturing process such as utilizing advanced coordinate measuring equipment (photo A)
- Legend components are subjected to quality inspections before assembly
- Prior to shipment, every Legend is tested against rigid standards using our computer automated testing stations (photo B)

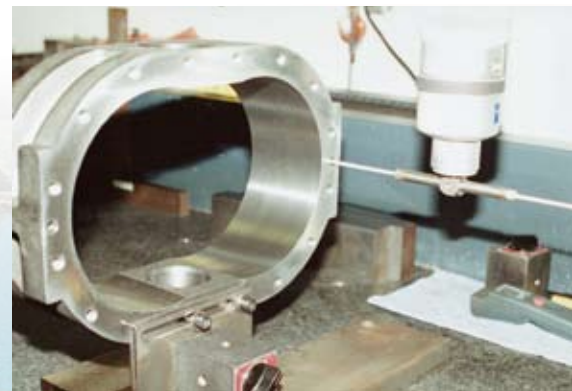


Photo A



Photo B



Sutorbilt Legend Pressure Performance Data

LOW PRESSURE UNITS	SIZE	DIA. INLET & OUTLET	DISPL. CU. FT./REV.	RPM	2 PSIG		3 PSIG		4 PSIG		5 PSIG		6 PSIG		7 PSIG	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	2LP 2LVP	2"-S	0.035	2,800 3,250 3,560 5,275	76 91 102 162	1.1 1.3 1.4 2.0	71 86 97 157	1.6 1.8 2.0 2.8	67 82 93 153	2.1 2.4 2.6 3.7	63 79 89 149	2.5 2.9 3.2 4.6	59 75 86 146	3.0 3.4 3.7 5.3	56 72 83 143	3.5 4.0 4.3 6.1
	3LR 3LVR	2½"-S	0.104	1,760 2,265 2,770 3,600	149 202 254 341	1.9 2.4 2.9 3.7	142 194 247 333	2.8 3.5 4.3 5.3	135 188 240 327	3.7 4.7 5.5 7.1	130 182 235 321	4.5 5.6 6.8 8.9	124 177 230 316	5.2 6.7 8.2 10.6	120 172 225 311	6.1 7.8 9.6 12.4
				1,760 2,190 2,620 3,600	253 326 400 566	3.0 3.7 4.4 5.8	243 316 389 556	4.5 5.3 6.3 8.7	234 307 381 547	5.7 7.1 8.4 11.6	227 300 373 539	7.1 8.8 10.6 14.5	220 293 366 533	8.5 10.6 12.7 17.4	213 286 360 526	9.9 12.4 14.8 20.3
				1,500 1,760 2,100 2,850	463 554 673 936	5.2 5.8 7.0 9.5	449 540 659 922	7.5 8.8 10.5 14.2	438 529 648 910	10.0 11.7 13.9 18.9	427 518 637 900	12.4 14.6 17.4 23.6	418 509 628 890	14.9 17.5 20.9 28.4	409 500 619 882	17.4 20.4 24.4 33.1
				1,170 1,760 1,930 2,350	739 1,162 1,284 1,586	8.0 12.0 13.1 16.0	716 1,139 1,261 1,563	11.9 18.0 19.7 24.0	697 1,120 1,242 1,544	15.9 24.0 26.3 32.0	680 1,103 1,225 1,527	19.9 29.9 32.8 40.0	664 1,088 1,210 1,512	23.9 35.9 39.4 48.0	650 1,074 1,196 1,497	27.9 41.9 46.0 56.0
	7LP 7LVP	8"-F	1.200	1,170 1,465 1,760 2,050	1,277 1,631 1,985 2,333	13.3 16.7 20.0 23.3	1,248 1,602 1,956 2,304	20.0 25.0 30.0 35.0	1,224 1,578 1,932 2,280	16.6 33.3 40.0 46.6	1,203 1,557 1,911 2,259	33.3 41.7 50.1 58.3	1,184 1,538 1,892 2,240	39.9 50.0 60.1 70.0		
				880 1,170 1,375 1,800	1,366 1,871 2,228 2,967	14.5 19.3 22.7 29.7	1,329 1,834 2,191 2,930	21.8 28.9 34.0 44.5	1,298 1,803 2,159 2,899	29.0 38.6 45.4 59.4	1,271 1,775 2,132 2,871	36.3 48.2 56.7 74.2	1,246 1,750 2,107 2,847	43.5 57.9 68.0 89.1		

MEDIUM PRESSURE UNITS	SIZE	DIA.INLET & OUTLET	DISPL.CU. FT./REV.	RPM	7 PSIG		9 PSIG		10 PSIG		12 PSIG		13 PSIG		14 PSIG	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	2MP 2MVP	1"-S	0.017	2,800	25	1.7	22	2.1	28	2.7	60	5.1				
				3,250	33	1.9	30	2.5								
				3,560	38	2.1	35	2.7								
				5,275	67	3.1	64	3.9								
	3MR 3MVR	2"-S	0.060	1,760	64	3.6	59	4.6	87	6.4	112	9.5				
				2,265	95	4.6	89	5.8								
				2,770	125	5.5	119	7.1								
				3,600	175	7.2	169	9.2								
4MR 4MVR	2½"-S	0.117	1,760	144	6.8	136	8.8	132	9.8							
			2,190	194	8.5	186	10.9									
			2,620	245	10.2	236	13.1									
			3,600	359	14.0	351	18.0									
5MR 5MVR	4"-S	0.210	1,500	237	10.5	227	13.4	222	14.9	213	17.9	209	19.4			
			1,760	292	12.3	281	15.8									
			2,100	363	14.6	353	18.8									
			2,850	521	19.9	510	25.5									
6MR 6MVR	5"-S	0.383	1,170	332	14.9	316	19.1	309	21.2	296	25.5	289	27.6	283	29.7	
			1,760	558	22.4	542	28.8									
			1,930	622	24.5	607	31.5									
			2,350	784	29.9	768	38.4									
7MP 7MVP	6"-F	0.733	1,170	693	28.5	671	36.6	661	40.7							
			1,465	909	35.6	887	45.8									
			1,760	1,125	42.8	1,103	55.0									
			2,050	1,338	49.9	1,316	64.1									
8MP 8MVP	8"-F	1.040	880	709	30.4	681	39.0	669	43.4							
			1,170	1,011	40.4	983	51.9									
			1,375	1,224	47.4	1,196	61.0									
			1,800	1,666	62.1	1,638	79.9									

HIGH PRESSURE UNITS	SIZE	DIA. INLET & OUTLET	DISPL. CU. FT./REV.	RPM	7 PSIG		8 PSIG		9 PSIG		11 PSIG		13 PSIG		15 PSIG	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	3HR 3HVR	1¼"-S	0.045	1,760	46	2.6	44	3.0	41	3.4	60	5.3				
				2,265	69	3.4	66	3.9	64	4.3						
				2,770	91	4.1	89	4.7	87	5.3						
				3,600	129	5.4	126	6.1	124	6.9						
	4HR 4HVR	1½"-S	0.069	1,760	80	4.0	77	4.6	74	5.2	99	7.9				
				2,190	110	5.0	107	5.7	104	6.4						
				2,620	139	6.0	137	6.9	134	7.7						
				3,600	207	8.2	204	9.4	201	10.6						
5HR 5HVR	2½"-S	0.140	1,500	154	7.0	151	8.0	147	9.0	140	10.9					
			1,760	191	8.2	187	9.3	183	10.5							
			2,100	238	9.8	235	11.1	231	12.5							
			2,850	343	13.2	340	15.1	336	17.0							
6HR 6HVR	3"-S	0.227	1,170	188	8.8	182	10.1	177	11.3	168	13.8	159	16.4			
			1,760	321	13.3	316	15.1	311	17.0							
			1,930	360	14.5	355	16.6	350	18.7							
			2,350	455	17.7	450	20.2	445	22.8							
7HP 7HVP	4"-S	0.367	1,170	332	14.2	326	16.3	319	18.3	308	22.4	297	26.5	287	30.5	
			1,465	441	17.8	434	20.4	428	22.9							
			1,760	549	21.4	542	24.5	536	27.6							
			2,050	655	25.0	649	28.5	642	32.1							
8HP 8HVP	4"-S	0.566	880	363	16.5	354	18.9	345	21.2	329	26.0	315	30.7	301	35.4	
			1,170	528	22.0	518	25.1	509	28.3							
			1,375	644	25.8	634	29.5	626	33.2							
			1,800	884	33.8	875	38.6	866	43.5							

Performance based on inlet air at standard temperature of 68°F, an ambient pressure of 14.7 psia and 36% relative humidity. For performance at non-standard conditions, contact your authorized Gardner Denver representative. S=Screwed connections std. NPT. F=flange connections. Intake and outlet pipe connections are same type and size.

Sutorbilt Legend Vacuum Performance Data

LOW VACUUM UNITS	SIZE	DIA. INLET & OUTLET	DISPL. CU. FT./REV.	RPM	2 "Hg		4 "Hg		8 "Hg		10 "Hg		12 "Hg		14 "Hg	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	2LP 2LVP	2"-S	0.035	2,800 3,250 3,560 4,165 5,275	82 98 108 130 168	0.7 0.7 0.8 0.9 1.1	74 90 101 122 161	1.1 1.3 1.4 1.6 1.9	61 77 88 109 148	2.0 2.3 2.5 2.9 3.6	55 71 82 103 142	2.5 2.8 3.1 3.6 4.5	64 75 96 135	3.4 3.7 4.3 5.2	128	6.0
	3LR 3LVR	2½"-S	0.104	1,760 2,265 2,770 3,600	158 211 264 350	1.1 1.3 1.5 1.9	147 200 252 338	1.9 2.4 2.9 3.7	128 180 233 319	3.6 4.6 5.4 7.0	118 171 223 309	4.5 5.5 6.7 8.7	108 160 213 299	5.1 6.6 8.1 10.5	288	12.2
	4LR 4LVR	3"-S	0.170	1,760 2,190 2,620 3,600	266 339 412 579	1.6 1.9 2.3 3.1	250 323 396 563	3.0 3.7 4.3 5.7	224 297 370 537	5.6 6.9 8.3 11.4	211 284 357 524	7.0 8.7 10.4 14.3	197 270 343 510	8.4 10.4 12.4 17.1	329 495	14.5 20.0
	5LR 5LVR	4"-S	0.350	1,500 1,760 2,100 2,850	480 571 690 953	2.6 3.1 3.6 4.8	459 550 669 932	5.1 5.7 6.8 9.3	424 515 634 896	9.8 11.5 13.7 18.6	406 497 616 879	12.2 14.3 17.1 23.2	388 479 598 860	14.7 17.2 20.5 27.9	459 578 840	20.1 24.0 32.5
	6LR 6LVR	6"-F	0.718	1,170 1,760 1,930 2,350	766 1,190 1,312 1,614	4.1 5.9 6.5 7.9	732 1,115 1,278 1,579	7.8 11.8 12.9 15.7	674 1,097 1,219 1,521	15.7 23.5 25.8 31.4	645 1,068 1,191 1,492	19.6 29.4 32.3 39.3	615 1,038 1,160 1,462	23.5 35.3 38.7 47.2	1,005 1,127 1,429	41.2 45.2 55.0
	7LP 7LVP	8"-F	1.200	1,170 1,465 1,760 2,050	1,312 1,666 2,020 2,368	6.5 8.2 9.8 11.5	1,268 1,622 1,976 2,324	13.1 16.4 19.7 22.9	1,195 1,549 1,903 2,251	26.2 32.8 39.3 45.8	1,159 1,513 1,867 2,215	32.7 40.9 49.2 57.3	1,121 1,475 1,829 2,177	39.2 49.1 59.0 68.7		
	8LP 8LVP	10"-F	1.740	880 1,170 1,375 1,800	1,411 1,916 2,273 3,012	7.1 9.5 11.1 14.6	1,355 1,860 2,217 2,953	14.3 19.0 22.3 29.2	1,261 1,766 2,122 2,862	28.5 37.9 44.6 58.4	1,214 1,719 2,076 2,815	35.7 47.4 55.7 72.9	1,165 1,670 2,026 2,765	42.8 56.9 66.9 87.6		

MEDIUM VACUUM UNITS	SIZE	DIA. INLET & OUTLET	DISPL. CU. FT./REV.	RPM	6 "Hg		10 "Hg		12 "Hg		14 "Hg		15 "Hg		16 "Hg	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	2MP 2MVP	1"-S	0.017	2,800 3,250 3,560 4,165 5,275	31 39 44 54 73	0.8 0.9 0.9 1.1 1.4	24 32 37 48 67	1.2 1.4 1.5 1.7 2.2			34 44 44 63	1.8 2.1 2.1 2.6	40 59	2.4 3.0	57	3.2
	3MR 3MVR	2"-S	0.060	1,760 2,265 2,770 3,600	76 106 136 186	1.6 2.0 2.4 3.1	63 93 124 174	2.6 3.3 4.0 5.0	57 87 117 167	3.1 3.9 4.7 6.0			110 160	5.4 7.0	156	7.5
	4MR 4MVR	2½"-S	0.117	1,760 2,190 2,620 3,600	161 211 262 376	3.0 3.7 4.4 5.9	142 193 243 358	4.9 6.0 7.1 9.8	132 183 233 348	5.8 7.2 8.6 11.8			222 337	10.0 13.7	331	14.7
	5MR 5MVR	4"-S	0.210	1,500 1,760 2,100 2,850	258 313 384 542	4.5 5.2 6.2 8.4	235 290 361 519	7.3 8.6 10.3 13.9	223 277 349 506	8.8 10.3 12.3 16.7			209 264 335 493	10.3 12.1 14.4 19.5	328 485	15.4 20.9
	6MR 6MVR	5"-S	0.383	1,170 1,760 1,930 2,350	363 589 655 815	6.3 9.4 10.3 12.6	328 554 619 780	10.4 15.7 17.2 21.0	310 536 601 762	12.5 18.8 20.7 25.2			290 516 581 741	14.6 22.0 24.1 29.3	279 505 570 731	15.7 23.5 25.8 31.4
	7MP 7MVP	6"-F	0.733	1,170 1,465 1,760 2,050	738 954 1,170 1,383	12.0 15.0 18.0 21.0	688 904 1,121 1,333	20.0 25.0 30.0 35.0	662 878 1,094 1,307	24.0 30.0 36.1 42.0			633 850 1,065 1,278	28.0 35.0 42.1 49.0	618 834 1,050 1,263	30.0 37.5 45.1 52.5
	8MP 8MVP	8"-F	1.040	880 1,170 1,375 1,800	765 1,067 1,280 1,722	12.8 17.0 20.0 26.2	703 1,005 1,218 1,660	21.3 28.3 33.3 43.6	670 972 1,185 1,627	25.6 34.0 40.0 52.3			634 936 1,149 1,591	29.8 39.7 46.6 61.0	615 917 1,130 1,572	32.0 42.5 50.0 65.4

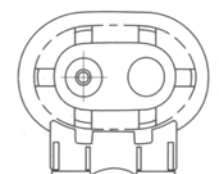
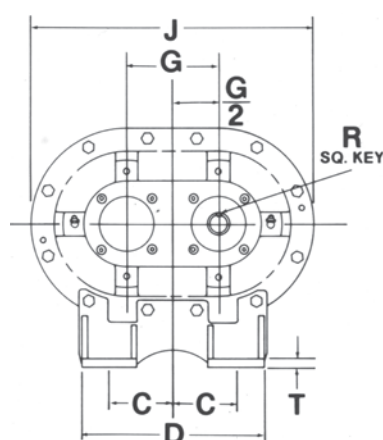
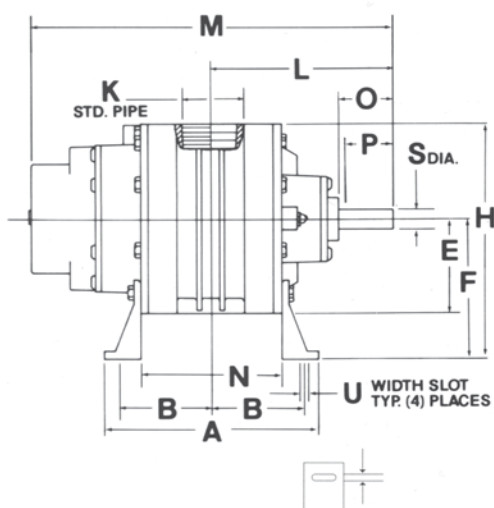
HIGH VACUUM UNITS	SIZE	DIA. INLET & OUTLET	DISPL. CU. FT./REV.	RPM	6 "Hg		8 "Hg		12 "Hg		14 "Hg		15 "Hg		16 "Hg	
					CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
	3HR 3HVR	1¼"-S	0.045	1,760 2,265 2,770 3,600	55 78 100 138	1.1 1.4 1.7 2.3	50 73 95 133	1.5 1.9 2.3 3.0	40 62 85 122	2.2 2.8 3.5 4.5			79 117	4.1 5.3	76 113	4.4 5.7
	4HR 4HVR	1½"-S	0.069	1,760 2,190 2,620 3,600	91 121 151 218	1.7 2.1 2.5 3.5	85 115 144 212	2.3 2.8 3.4 4.6	72 102 132 199	3.4 4.2 5.1 6.9			95 124 192	4.9 5.9 8.1	91 120 188	5.3 6.3 8.7
	5HR 5HVR	2½"-S	0.140	1,500 1,760 2,100 2,850	170 206 254 359	2.9 3.4 4.1 5.6	161 198 245 350	3.9 4.6 5.5 7.4	144 180 228 333	5.9 6.9 8.2 11.2			134 171 218 323	6.8 8.0 9.6 13.0	165 213 318	8.6 10.3 14.0
	6HR 6HVR	3"-S	0.227	1,170 1,760 1,930 2,350	209 343 381 477	3.7 5.6 6.1 7.5	197 331 370 441	4.8 7.4 8.2 9.9	173 307 345 441	7.4 11.2 12.2 14.9			159 293 332 427	8.7 13.0 14.3 17.4	152 286 325 420	9.3 14.0 15.3 18.6
	7HP 7HVP	4"-S	0.367	1,170 1,465 1,760 2,050	359 467 575 682	6.0 7.5 9.0 10.5	344 453 561 667	8.0 10.0 12.0 14.0	314 422 531 637	12.0 15.0 18.1 21.0			297 406 514 620	14.0 17.5 21.1 24.5	288 396 505 611	15.0 18.8 22.6 26.3
	8HP 8HVP	4"-S	0.566	880 1,170 1,375 1,800	400 564 680 921	7.0 9.3 10.9 14.2	380 544 660 901	9.3 12.3 14.5 19.0	338 502 618 859	13.9 18.5 21.7 28.5			315 479 595 835	16.2 21.6 25.4 33.2	302 466 582 823	17.4 23.1 27.2 35.6

Sutorbilt Legend Dimensional Data

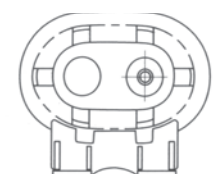
Horizontal Configurations

SIZE	WT.	CONN.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U
2M	72	S	5.00	2.00	2.00	6.36	3.25	3.75	2.75	7.00	9.25	1.00	5.16	10.00	2.76	1.97	1.62	0.19	0.620	0.13	0.44
2L	86	S	7.00	3.00	2.00	6.36	3.25	3.75	2.75	7.00	9.25	2.00	6.16	12.00	4.76	1.97	1.62	0.19	0.620	0.13	0.44
3H	88	S	6.75	2.69	2.68	7.75	3.88	5.00	3.50	8.88	11.26	1.25	5.86	12.05	3.50	2.05	1.62	0.19	0.750	0.25	0.62 x 1.12
3M	110	S	7.62	3.13	2.68	7.75	3.88	5.00	3.50	8.88	11.26	2.00	6.30	12.92	4.38	2.05	1.62	0.19	0.750	0.25	0.62 x 1.12
3L	132	S	10.25	4.44	2.68	7.75	3.88	5.00	3.50	8.88	11.26	2.50	7.61	15.55	7.00	2.05	1.62	0.19	0.750	0.25	0.62 x 1.13
4H	138	S	7.24	3.00	3.00	8.25	4.19	6.25	4.00	10.44	12.38	1.50	6.91	13.74	4.00	2.39	1.62	0.19	0.875	0.38	0.5 x 0.75
4M	160	S	9.49	4.13	3.00	8.25	4.19	6.25	4.00	10.44	12.38	2.50	8.04	15.99	6.26	2.39	1.62	0.19	0.875	0.38	0.5 x 0.75
4L	182	S	11.99	5.38	3.00	8.25	4.19	6.25	4.00	10.44	12.38	3.00	9.29	18.49	8.76	2.39	1.62	0.19	0.875	0.38	0.5 x 0.75
5H	210	S	10.85	3.50	3.50	9.00	5.19	7.00	5.00	12.19	15.38	2.50	8.19	16.38	4.86	2.50	2.00	0.25	1.125	0.38	0.56 x 0.75
5M	232	S	12.85	4.50	3.50	9.00	5.19	7.00	5.00	12.19	15.38	4.00	9.19	18.38	6.86	2.50	2.00	0.25	1.125	0.38	0.56 x 0.75
5L	306	S	16.85	6.50	3.50	9.00	5.19	7.00	5.00	12.19	15.38	4.00	11.19	22.38	10.86	2.50	2.00	0.25	1.125	0.38	0.56 x 0.75
6H	318	S	9.76	3.94	4.00	16.50	6.00	8.75	6.00	14.75	18.00	3.00	9.18	18.57	5.76	2.94	2.00	0.31	1.375	0.50	0.75 x 1
6M	366	S	13.00	5.56	4.00	16.50	6.19	8.75	6.00	14.94	18.00	5.00	10.80	21.81	9.00	2.94	2.00	0.31	1.375	0.50	0.75 x 1
6L	538	F	20.00	9.06	4.00	16.50	7.50	8.75	6.00	16.25	18.00	6.00	14.31	28.82	16.00	2.94	2.00	0.31	1.375	0.50	0.75 x 1
7H	482	S	12.00	4.63	5.50	15.00	9.69	11.00	7.00	20.69	22.00	4.00	10.00	21.03	5.74	3.21	2.50	0.38	1.562	0.50	0.75 x 1
7M	638	F	17.50	7.38	5.50	15.00	8.50	11.00	7.00	19.50	22.00	6.00	12.75	26.53	11.24	3.21	2.50	0.38	1.562	0.50	0.75 x 1
7L	770	F	24.50	10.88	5.50	15.00	8.50	11.00	7.00	19.50	22.00	8.00	16.25	33.53	18.24	3.21	2.50	0.38	1.562	0.50	0.75 x 1
8H	736	S	13.50	5.75	6.00	16.00	10.00	12.50	8.00	22.50	25.25	4.00	11.69	23.85	7.76	3.86	2.50	0.38	1.750	0.50	0.75 x 1
8M	938	F	19.00	8.50	6.00	16.00	10.00	12.50	8.00	22.50	25.25	8.00	14.44	29.35	13.26	3.86	2.50	0.38	1.750	0.50	0.75 x 1
8L	1,170	F	27.00	12.50	6.00	16.00	10.00	12.50	8.00	22.50	25.25	10.00	18.44	37.35	21.26	3.86	2.50	0.38	1.750	0.50	0.75 x 1

S=Threaded connections standard NPT. F=flange connections. Inlet and outlet connections are the same type and size. Dimensions are in inches. Weights are in pounds and include shipping cartons or pallets and are approximate.



LHC
LEFT HAND CENTRAL
(OPTIONAL ASSEMBLY)



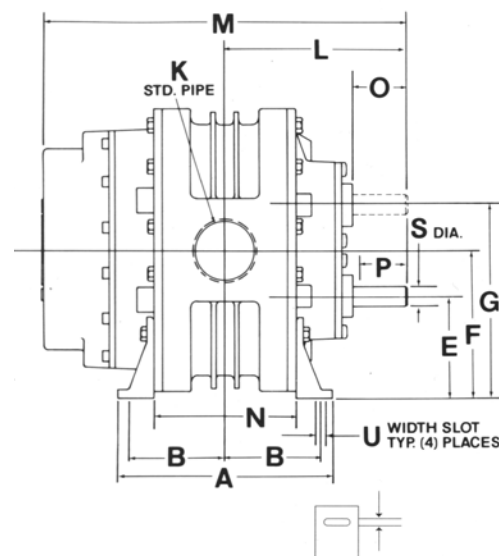
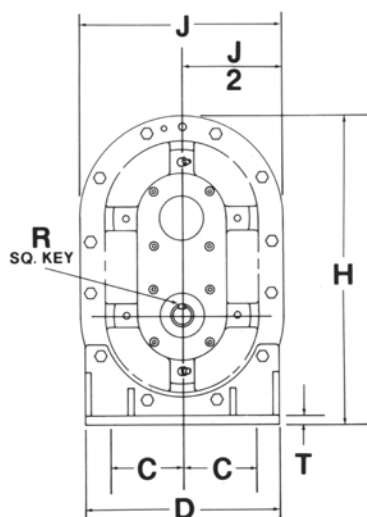
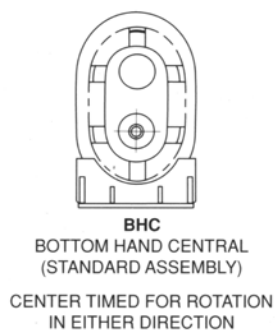
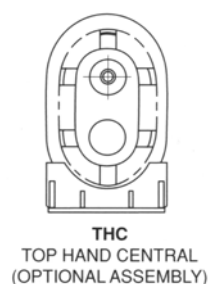
RHC
RIGHT HAND CENTRAL
(STANDARD ASSEMBLY)

CENTER TIMED FOR ROTATION
IN EITHER DIRECTION

Vertical Configurations

SIZE	WT.	CONN.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U
2MV	72	S	5.00	2.00	1.50	5.60	3.50	4.88	6.25	9.50	6.50	1.00	5.16	10.00	2.76	1.97	1.62	0.19	0.6200	0.13	0.44
2LV	86	S	7.00	3.00	1.50	5.60	3.50	4.88	6.25	9.50	6.50	2.00	6.16	12.00	4.76	1.97	1.62	0.19	0.6200	0.13	0.44
3HV	88	S	6.75	2.69	2.68	7.75	4.50	6.25	8.00	11.88	7.76	1.25	5.86	12.05	3.50	2.05	1.62	0.19	0.7500	0.25	0.62 x 1.12
3MV	110	S	7.62	3.13	2.68	7.75	4.50	6.25	8.00	11.88	7.76	2.00	6.30	12.92	4.36	2.05	1.62	0.19	0.7500	0.25	0.62 x 1.12
3LV	132	S	10.25	4.44	2.68	7.75	4.50	6.25	8.00	11.88	7.76	2.50	7.61	15.55	7.00	2.05	1.62	0.19	0.7500	0.25	0.62 x 1.12
4HV	138	S	7.24	3.00	3.00	8.25	4.50	6.50	8.50	12.69	8.40	1.50	6.91	13.74	4.00	2.39	1.62	0.19	0.8750	0.38	0.5 x 0.75
4MV	160	S	9.49	4.13	3.00	8.25	4.50	6.50	8.50	12.69	8.40	2.50	8.04	15.99	6.26	2.39	1.62	0.19	0.8750	0.38	0.5 x 0.75
4LV	182	S	11.99	5.38	3.00	8.25	4.50	6.50	8.50	12.69	8.40	3.00	9.29	18.49	8.76	2.39	1.62	0.19	0.8750	0.38	0.5 x 0.75
5HV	210	S	10.85	3.50	3.50	9.00	5.50	8.00	10.50	15.85	10.38	2.50	8.19	16.38	4.86	2.50	2.00	0.25	1.1250	0.38	0.56 x 0.75
5MV	232	S	12.85	4.50	3.50	9.00	5.50	8.00	10.50	15.85	10.38	4.00	9.19	18.38	6.86	2.50	2.00	0.25	1.1250	0.38	0.56 x 0.75
5LV	306	S	16.85	6.50	3.50	9.00	5.50	8.00	10.50	15.85	10.38	4.00	11.19	22.38	10.86	2.50	2.00	0.25	1.1250	0.38	0.56 x 0.75
6HV	318	S	9.76	3.94	4.00	10.50	8.75	11.75	14.75	20.75	12.00	3.00	9.18	18.57	5.76	2.94	2.00	0.31	1.3750	0.50	0.75 x 1
6MV	366	S	13.00	5.56	4.00	10.50	8.75	11.75	14.75	20.80	12.38	5.00	10.80	21.81	9.00	2.94	2.00	0.31	1.3750	0.50	0.75 x 1
6LV	538	F	20.00	9.06	4.00	10.50	8.75	11.75	14.75	20.75	15.00	6.00	14.31	28.81	9.00	2.93	2.00	0.31	1.3750	0.50	0.75 x 1
7HV	482	S	12.00	4.62	5.50	14.04	11.00	14.50	18.00	25.50	19.38	4.00	10.00	21.03	5.74	3.21	2.50	0.38	1.5620	0.50	0.75 x 1
7MV	638	F	17.50	7.37	5.50	14.04	11.00	14.50	18.00	25.50	17.00	6.00	12.75	26.53	11.24	3.21	2.50	0.38	1.5620	0.50	0.75 x 1
7LV	770	F	24.50	10.87	5.50	14.04	11.00	14.50	18.00	25.50	17.00	8.00	16.25	33.53	18.24	3.21	2.50	0.38	1.5620	0.50	0.75 x 1
8HV	736	S	13.50	5.75	6.00	16.00	12.50	16.50	20.50	29.12	20.00	4.00	11.69	23.85	7.76	3.86	2.50	0.38	1.7500	0.50	0.75 x 1
8MV	938	F	19.00	8.50	6.00	16.00	12.50	16.50	20.50	29.12	20.00	8.00	14.44	29.35	13.26	3.86	2.50	0.38	1.7500	0.50	0.75 x 1
8LV	1,170	F	27.00	12.50	6.00	16.00	12.50	16.50	20.50	29.12	20.00	10.00	18.44	37.35	21.26	3.86	2.50	0.38	1.7500	0.50	0.75 x 1

S=Threaded connections standard NPT. F=flange connections. Inlet and outlet connections are the same type and size. Dimensions are in inches. Weights are in pounds and include shipping cartons or pallets and are approximate.



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