

STOKES VACUUM

HIGH VACUUM BLOWERS

FEATURES

- **VITON* or fluorocarbon shaft seals** for resistance to heat and chemical corrosion.
- **Hardened replaceable sleeve or hardened steel shaft** for wear resistance.
- **Helical timing gears** for maximum load capacity, quiet operation, easy timing.
- **Unique impeller design** for high volumetric efficiency, high differential pressure, dynamically balanced to minimize vibration.
- **Oversized anti-friction bearings.**
- **Simple to maintain.**
- **Cast and ductile iron materials for construction** provide excellent strength, along with corrosion resistance.
- **Unique labyrinth seals** for effective protection against oil contamination of gas stream.
- **Compatible with all Vacuum Systems.**
- **Efficient air-cooled design.**
- **Totally enclosed fan-cooled motor.**



**Packaging - Processing
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BENEFITS

- **Handles large gas loads** at low pressures.
- **Fast pump-down cycle** on applications with operating pressures as low as ten microns (.01 torr).

*Viton is a registered trademark of Dupont

APPLICATIONS

- **Upgrade of an existing vacuum pumping system** to a higher capability.
- **Multi blower packages** for massive capacities at very low pressures.
- **Can be mounted separately** from the backing pump or directly on the inlet of the backing pump.

Specifications

Model		TEFC Direct Drive					V-Belt Drive					
		306	310	607	615	622	306	310	607	615	622	
Displacement*	CFM	125	245	400	600	1300	2000	245	400	950	2000	3000
	M ³ /HR	212	416	680	1020	2210	3400	416	680	1615	3400	5100
Pump Speed, RPM @	60 Hz	1800	3600	3600	1800	1800	1800	3600	3600	2750	2750	2750
Motor**	HP	1.5	2	2	5	10	15	***	***	***	***	***
	KW	1.12	1.5	1.5	3.75	7.5	11.2					
Inlet & Outlet Flanges — ASA		3	4	6	8	8	3	4	6	8	8	
Overall Dimensions	in.	32 $\frac{3}{8}$ x 9 $\frac{1}{2}$ x 11 $\frac{1}{4}$	36 $\frac{3}{8}$ x 9 $\frac{1}{2}$ x 11 $\frac{1}{4}$	41 $\frac{3}{4}$ x 16 x 19 $\frac{3}{4}$	53 $\frac{7}{8}$ x 16 x 21 $\frac{3}{8}$	63 $\frac{1}{2}$ x 17 $\frac{1}{4}$ x 19 $\frac{3}{4}$	18 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 11 $\frac{1}{4}$	22 $\frac{3}{4}$ x 9 $\frac{1}{2}$ x 11 $\frac{1}{4}$	25 $\frac{7}{32}$ x 16 x 19 $\frac{3}{4}$	33 $\frac{3}{32}$ x 16 x 21 $\frac{3}{8}$	40 $\frac{1}{2}$ x 17 $\frac{1}{4}$ x 19 $\frac{3}{4}$	
	mm	829 x 241 x 286	930 x 241 x 286	1059 x 406 x 502	1367 x 406 x 543	1613 x 438 x 502	476 x 241 x 286	578 x 241 x 286	641 x 406 x 502	841 x 406 x 543	1017 x 438 x 502	
Weight	lbs.	200	200	240	600	705	1065	150	190	475	515	740
	kg.	91	91	109	273	321	485	68	86	215	233	335
Max. Pressure Differential	torr	380	380	380	380	380	380	380	380	380	380	250
Maximum Temp. Rise	°F	275	275	275	275	250	275	275	275	275	275	250
	°C	135	135	135	135	121	135	135	135	135	135	121
Maximum Discharge Temp.	°F	375	375	375	375	350	375	375	375	375	375	350
	°C	191	191	191	191	177	191	191	191	191	191	177

* For operation with direct drive @ 50Hz, pump speed is 5/6 of that shown for 60Hz. If unit is belt driven, pulley ratio can be changed to compensate.

** Size dependent on operating conditions.

*** Depending on system operation. Consult factory for application assistance.

Pumping Curves Available Upon Request (Bulletin 590)