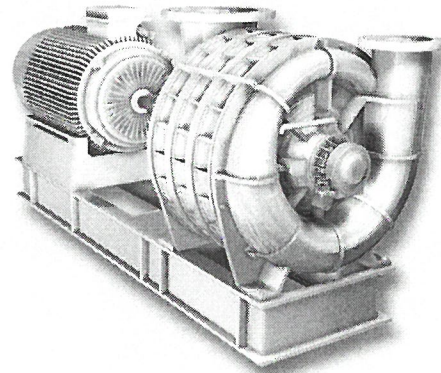


# TECHNICAL DATA SHEET

## TECHNICAL DATA

- Number of stage :** 1 thru 9
- Inlet connection :** 16" (420 mm) flange, PN 10 DN 400
- Outlet connection :** 14" (355 mm) flange, PN 10 DN 350
- Operating speed :** 3570 rpm in direct drive (60Hz)
- Lubrication :** Oil type with constant level
- Impeller diameter :** 29" (736,5 mm)
- Impeller tip speed :** 452 fps (138 m/sec)
- First critical speed :** 4753 rpm (8 stages)
- Drive :** Direct drive, gear box or V-belts
- Vibration tolerance :** 1.34 mils peak-to-peak (4,5 mm/s RMS)
- Balance piston :** From 3 to 9 stages
- Shaft end :** 2" 3/4 (70 mm) , inlet end drive standard

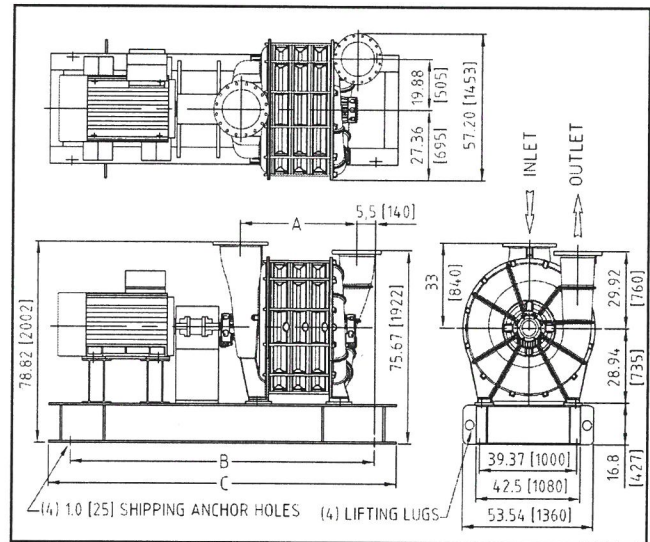
## "451" SERIES



## AIR & GAS

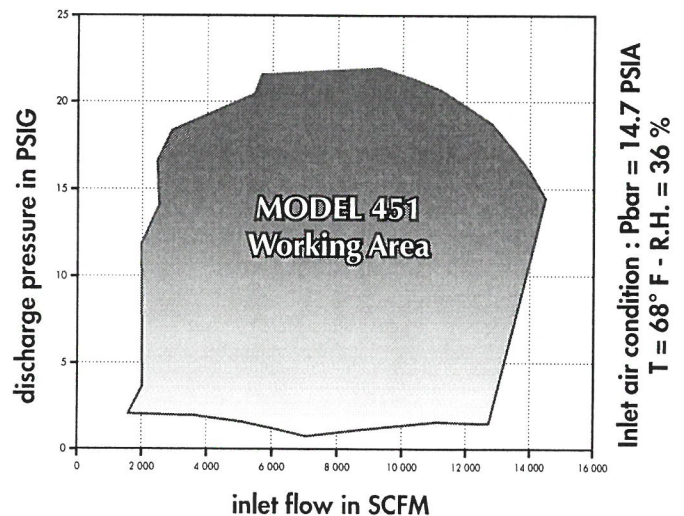
## MATERIALS OF CONSTRUCTION

- Head, Sections, Bearing housings :** Cast iron FGL 250
- Tie rods :** 13/16" (20 mm) diameter cold drawn steel A60
- Joint sealing compound :** RTV IS502 Silicone
- Seals (air) :** Graphit rings each end
- Seals (gas) :** Four carbon rings each end with inert gas injection
- Bearings :** Ball bearings 6316 C3
- Shaft :** Carbon steel C35 (stainless steel available)
- Impellers :** Cast aluminium Al Si 10 Mg
- Baffle rings :** Stainless steel
- Motor pedestal :** UPN roll carbon steel.
- Base frame installation :** Anchor bolts or antivibrations pads



BLOWER SIZE	"A"	"B"	"C"	WEIGHT		Rotor moment of inertia WK <sup>2</sup> (lb.ft <sup>2</sup> )
				LBS	KGS	
451.01	23.66 (601)	106 (2700)	118 (3000)	5860	2650	34.94
451.02	31.42 (798)	122 (3100)	134 (3400)	7500	3400	74.56
451.03	39.17 (995)	130 (3300)	144 (3650)	9170	4150	119.15
451.04	46.93 (1192)	142 (3600)	154 (3900)	10340	4680	158.76
451.05	54.68 (1389)	150 (3800)	162 (4100)	11980	5420	198.38
451.06	62.44 (1586)	158 (4000)	173 (4400)	13060	5910	237.99
451.07	70.20 (1783)	161 (4100)	177 (4500)	16265	7360	277.61
451.08	77.95 (1980)	165 (4200)	185 (4700)	17290	7825	314.70
451.09	85.71 (2177)	177 (4500)	197 (5000)	18385	8320	353.96

DIMENSIONS ARE IN INCHES AND (MM)  
ACTUAL DIMENSIONS MAY VARY SLIGHTLY TO SUIT APPLICATION



Values, dimensions and reference in this brochure are approximate and intended as a guide only, not for construction and are subject to change without notice.

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