

M-D Pneumatics™ Rotary Positive Displacement Blowers

PD Plus®

Model 3200 Heavy Duty

Bi-directional Rotation Series Options: Horizontal Air Service Vertical Air Service Horizontal Flow, Single Envelope Gas Service Vertical Flow, Single Envelope Gas Service Horizontal Flow, Double Envelope Gas Service Vertical Flow, Double Envelope Gas Service

Model 3200 PD PLUS heavy duty industrial blowers are designed for high performance applications, up to 15 PSI pressure or 17" Hg dry vacuum (24" Hg water injected). All models have sight glasses as a standard feature.

Standard Model

This model's applications include pneumatic conveying, wastewater treatment, and the general process industry where high pressure, high volume air is required. Seal areas are vented to atmosphere to relieve process pressure against the internal lip seals, and to provide oil-free air.

Single Envelope Gas Service

This series is utilized in such applications as closed loop pneumatic conveying, process gas handling, or elevated pressure applications up to 100 PSIG discharge. Vent openings are tapped and plugged to prevent gas leakage. These fittings can also accept an inert gas purge for positive containment of the process gas.

Double Envelope Gas Service

This series is built to laboratory standards where virtually complete sealing is required. In addition to the features shown on the Single Envelope Gas Service series, the drive shaft is mechanically sealed and the oil sumps are plugged to provide an even higher degree of leakage protection.

Optional Cooling Coils

All vertical flow 3200 PD PLUS models are available with cooling coils to provide cooling of lubricating oil with less than 0.5 GPM cooling water for high performance applications.

Special Materials

Ductile Iron* Stainless Steel** Carbon Steel ***

Special Coatings

Bi-Protec® (Nickel/Armoloy®)

*3202, 3204, 3206, 3210 only **3206& 3210 only ***3210 only



Model Size	Max. Press. PSI	Max. Vac. (in. Hg)	Nom. Min. RPM at Max. Disch. Pressure	Nom. Max. RPM at Max. Disch. Pressure	Displ. CFR	
3202	15	15	3100	3600	.026	
3204	15	15	2900	3600	.042	
3206	15	15	2750	3600	.063	
3210	15	15	2650	3600	.105	

Material Specifications:

Housing: Cast iron **End Plates:** Cast iron

End Covers: Gear end - Cast iron Free end - Cast iron

Rotors: Ductile iron

Shafts: Ductile iron cast integrally with rotor

Bearings: Gear end - Double row ball Free end - Single row ball Drive shaft - Double row ball

Drive Shaft: Ductile iron **Gears:** Alloy steel, helical cut

Seals: Standard - Lip and labyrinth type on rotor shafts; lip seal on the drive shaft; less than 25 PSIG.
Single Envelope Gas Service - Mechanical and labyrinth type on rotor shafts; lip seal on the drive

shaft; less than 25 PSIG

Double Envelope Gas Service - Same as Vertical & Horizontal flow single envelop gas service series plus mechanical sealing on the drive shaft; greater than 25

PSIG*

Lubrication: Oil splash system, both ends

Blowers operating with a discharge pressure above 25 PSIG require hydrostatic testing and special high pressure seal leakage testing.

Performance Tables

In conjunction with our program of continuous testing and design upgrading, all specifications are subject to change without notice. All data are approximate. Request a quotation for your specific application.

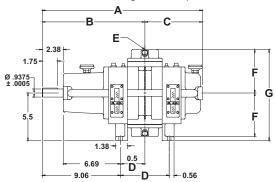
Pressure (14.70 PSIA and 70° F Inlet)

BLOWER MODEL	SPEED (RPM)	2 PSIG		5 PSIG		8 PSIG		10 PSIG		12 PSIG		14 PSIG		15 PSIG		Max. Vacuum		um
		CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	" Hg	CFM	ВНР
	1150	17 34	0.9	8	1.3	40	2.7									8	7 17	1.2
3202	1750 2950 3600	67 85	1.4 2.4 2.9	25 58 76	2.0 3.4 4.2	18 52 70	4.5 5.5	48	5.2 6.4	45 63	6.0	60	0.0	59	8.6	11 14 15	43 59	2.1 4.1
	3600	85	2.9	76	4.2	70	5.5	66	0.4	63	7.3	60	8.2	59	8.0	15	59	5.2
	1150	29	1.1	16	1.8											8	14	1.5
3204	1750	56	1.7	43 97	2.7	33	3.7	82	7.4	77	0.0	72	9.7			11 14	31	2.8 5.6
	2950 3600	110 139	2.8 3.4	126	4.5 5.5	87 116	6.3 7.7	111	7.4 9.1	106	8.6 11	101	12	99	13	15	75 100	7.2
	1150	45	1.3	26	2.3											9	20	2.1
3206	1750	86	2.0	67	3.5	53	5.1	46	6.1	400	40	440				12	46	4.0
	2950 3600	167 211	3.4 4.1	148 192	6.0 7.3	134 178	8.6 11	127 170	10 13	120 163	12 15	113 157	14 17	154	18	15 15	111 155	8.0 9.8
	1150	80	1.8	51	3.4											9	42	3.1
3210	1750	147	2.7	118	5.2	98	7.8	86	9.5							12	87	6.0
3210	2950 3600	281 354	4.5 5.5	253 326	8.8 11	232 305	13 16	221 293	16 20	210 283	19 23	200 273	22 27	196 269	23 28	15 15	197 270	12 15

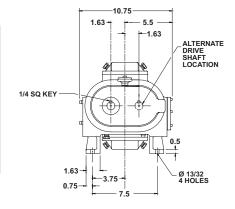
Dimensions

Horizontal Flow, Single Envelope Gas Service

Vertical Flow, Single Envelope Gas Service



MODEL	SERIES	Α	В	С	D	E	F	G	Net Wgt. (lbs.)*	
3202	17/57 46/81	17.63 17	11.13	6.5 5.88	4 4.13	1.5" NPT	4	8 9.5	120	
3204	17/57 46/81	19.13 18.5	11.88	7.25 6.63	5.5 5.63	2" NPT	5	10 10.5	140	
3206	17/57 46/81	21.13 20.5	12.88	8.25 7.63	7.5 7.63	2.5" NPT	5	10 10.5	155	
3210	17/57 46/81	25.13 24.5	14.88	10.25 9.63	11.5 11.63	3" NPT	6.5	11 11	220	



Certain dimensions for double envelope gas-service differ slightly from those shown above.

Certified prints are available through your local Tuthill Vacuum & Blower Systems Sales Professional.

Your Local Tuthill Vacuum Blower Systems Sales Professional:



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Springfield, Missouri USA 65803-8702
o 417.865.8715 800.825.6937 f 417.865.2950
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Values are approximate and should not be used for construction.

^{*}Approximate shipping weight.