M-D Pneumatics®

EQUALIZER DF | 4504, 4506, 4509, 4512

Equalizer DF

Models: 4504, 4506, 4509, 4512

Bi-directional Rotation 17 Series - Horizontal Air Flow 46 Series - Vertical Air Flow

Designed to be interchangeable with equivalent Gardner Denver Duroflow® models, EQUALIZER DF rotary positive blowers offer many distinct advantages.

Features

Higher Pressure Capability

Due to the high degree of precision to which EQUALIZER DF blowers are manufactured, most models are rated to 18 PSIG discharge pressure. This provides you with an increased level of security since your EQUALIZER DF blower has more safety factor already built in.

Designed for True, Drop-in Replacement

The last thing you need is an "interchangeable" blower that really isn't. EQUALIZER DF blowers are designed to be dimensionally interchangeable with competing models, even to the point of matching the port connector bolt patterns.

Helical Gearing

EQUALIZER DF blowers are timed with precision helical gears that are keyed to the rotor shafts. Helical gearing reduces backlash and mechanical noise as compared to spur gears offered by other manufacturers. Keyed interference fit reduces the risk of slippage of the gear on the shaft and loss of timing, one of the leading causes of blower failure.

One Piece Housing

Every EQUALIZER DF blower includes a housing constructed of a single piece of precision machined cast iron, rather than a two piece housing which is subject to misalignment and loss of operating clearances.

Rotors with Integral Shafts

EQUALIZER DF blowers include precision machined ductile iron rotors with large, integrally cast shafts to provide single, unitized rotors to prevent clash as a result of the impeller moving on its shaft.



Model Size	Max. Press. PSI	Max. Vac. (in. Hg)	Maximum RPM	Displ. CFR	Net Wgt. (lbs.)*
4504	18	16	4000	.112	235
4506	18	16	4000	.164	285
4509	18	16	4000	.242	320
4512	15	16	4000	.321	360

^{*}Approximate shipping weight.

Versatility

Completely field convertible from horizontal to vertical flow, or vice versa simply by rearranging oil breathers, drains and changing the mounting feet.

Material Specifications:

Housing: Cast iron End Plates: Cast iron End Covers: Cast iron Rotors: Ductile iron

Shafts: Ductile iron cast integrally with rotor

Bearings: Gear end - Double row ball

Drive end - Cylindrical roller

Drive Shaft: Ductile iron cast integrally with drive rotor

Gears: Heat treated alloy steel, helical cut

Seals: Lip and piston ring labyrinth type on rotor shafts;

lip seal on the drive shaft

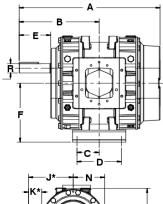
Lubrication: Oil splash system, both ends

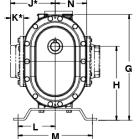
Performance Tables

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.

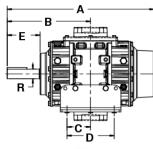
Pressure (14.70 PSIA and 70° F Inlet)

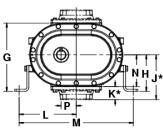
Horizontal Flow





Vertical Flow





MODEL REPLACEMENT FOR		SPEED	EED 5 PSIG		8 PSIG		10 PSIG		12 PSIG		15 PSIG		18 PSIG		MAX. VACUUM		JUM
		(RPM)	CFM	внр	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	CFM	ВНР	" HG	CFM	внр
4504	DUROFLOW® 4504	1150 1750 2950 3500 4000	62 129 263 325 381	3.9 6.0 10 12 14	44 111 246 307 363	5.6 8.5 14 17 20	101 235 297 353	10 17 20 23	92 226 288 344	12 20 24 27	214 276 332	24 29 33	203 265 321	29 34 39	11 13 16 16 16	41 95 207 269 325	4.2 7.2 14 17 19
4506	DUROFLOW 4506	1150 1750 2950 3500 4000	105 203 400 491 573	5.2 8.0 13 16 18	82 181 378 468 551	7.7 12 20 23 27	168 365 456 538	14 24 28 33	157 354 444 527	17 28 34 38	339 429 511	35 41 47	325 415 497	41 49 55	11 14 16 16 16	79 152 330 420 502	5.6 10 19 23 26
4509	DUROFLOW 4509	1150 1750 2950 3500 4000	170 316 607 740 861	7.2 11 18 22 25	142 287 578 711 832	11 16 28 33 38	125 271 562 695 816	13 20 34 40 46	256 547 680 802	24 40 48 55	527 661 782	50 59 67	509 643 764	59 70 80	12 15 16 16 16	127 238 516 649 770	8.3 15 27 32 37
4512	DUROFLOW 4512	1150 1750 2950 3500 4000	240 433 819 996 1156	9.2 14 24 28 32	206 399 784 961 1122	14 21 36 43 49	187 380 765 942 1103	17 26 44 52 60	362 748 924 1085	31 52 62 71	724 901 1062	65 77 88			13 15 16 16 16	175 340 710 887 1048	11 20 35 42 48

Dimensions

MODEL	SERIES	Α	В	С	D	E	F	G	Н	L	М	N	Р	R	WT. (LBS.)
4504	17 46	18.45	10.02	2.44 2.50	4.88 5.00	3.52	9.09	16.34 10.50	11.40 5.63	5.75 8.75	11.50 17.50	4.88	2.30	1.437	270
4506	17 46	21.82	12.39	3.44 3.50	6.88 7.00	4.89	9.09	16.34 10.50	11.40 5.63	5.75 8.75	11.50 17.50	4.88	2.30	1.437	310
4509	17 46	24.80	13.87	3.44 3.50	6.88 7.00	4.89	9.09	16.34 10.50	11.40 5.63	5.75 8.75	11.50 17.50	4.88	2.30	1.437	350
4512	17 46	27.81	15.38	4.94 5.00	9.88 10.00	4.89	9.09 —	16.34 10.50	11.40 5.63	5.75 8.75	11.50 17.50	4.88	2.30	1.437	390

Optional Port Connectors

MODEL	NPT	J*	K *	WT. (LBS.) EACH CONNECTOR
4504	4"	9.02	4.15	11
4506	4" (short)	6.94	2.03	11
4500	4" (long)	10.94	6.03	19
	4" (short)	6.94	2.03	17
4509	5" (short)	12.47	2.93	15
	5" (long)	7.84	12.47	28
4512	6" (short)	7.63	2.72	19
4312	6" (long)	13.19	8.28	36

Values are approximate and should not be used for construction.

Certified prints are available through your local M-D Pneumatics Sales Professional.

CONTACT US

For more information, contact your Regional Sales Manager or call us at:

1-800-825-6937

Your Local Sales Professional:

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