

# DuroFlow® Industrial 70 Series Positive Displacement Blowers/Vacuum Pumps

For over forty years DuroFlow® blowers/vacuum pumps have combined leading-edge technology and on-the-job experience to continuously deliver enhanced designs and improved performance. The DuroFlow design has earned a reputation as a leader in reliability and efficiency for applications that demand a dependable supply of oil-free air.

**Applications** – DuroFlow blowers/vacuum pumps deliver clean, oil-free air to a wide range of applications that include wastewater treatment, methane gas recovery, combustion air, pneumatic conveying, process gas boosting, fluidized bed, vapor and gas extraction, composting and vacuum systems.

## Key Features

**RELIABLE SPLASH OIL LUBRICATION AT BOTH GEAR AND DRIVE ENDS** – Provides superior gear and bearing lubrication for longer life at all operating conditions with minimal maintenance. Oversized double-row ball bearings support each shaft and fix rotor position.

**HEAVY-DUTY REINFORCED SINGLE PIECE CAST IRON CYLINDER** – Provides greater strength and rigidity to prevent distortion that can affect internal clearances and reduce performance. Extra cylinder mass and progressive porting aid in reducing noise.

**ROTORS AND SHAFTS** are machined from a single, high-strength ductile iron casting and dynamically balanced, assuring extra strength and rigidity to handle maximum loads on a continuous basis without fatigue, deflection or vibration.

**VERTICAL OR HORIZONTAL MOUNTING CONFIGURATION AVAILABLE FOR EACH BLOWER** – Provides flexibility for installing into any new or existing system.

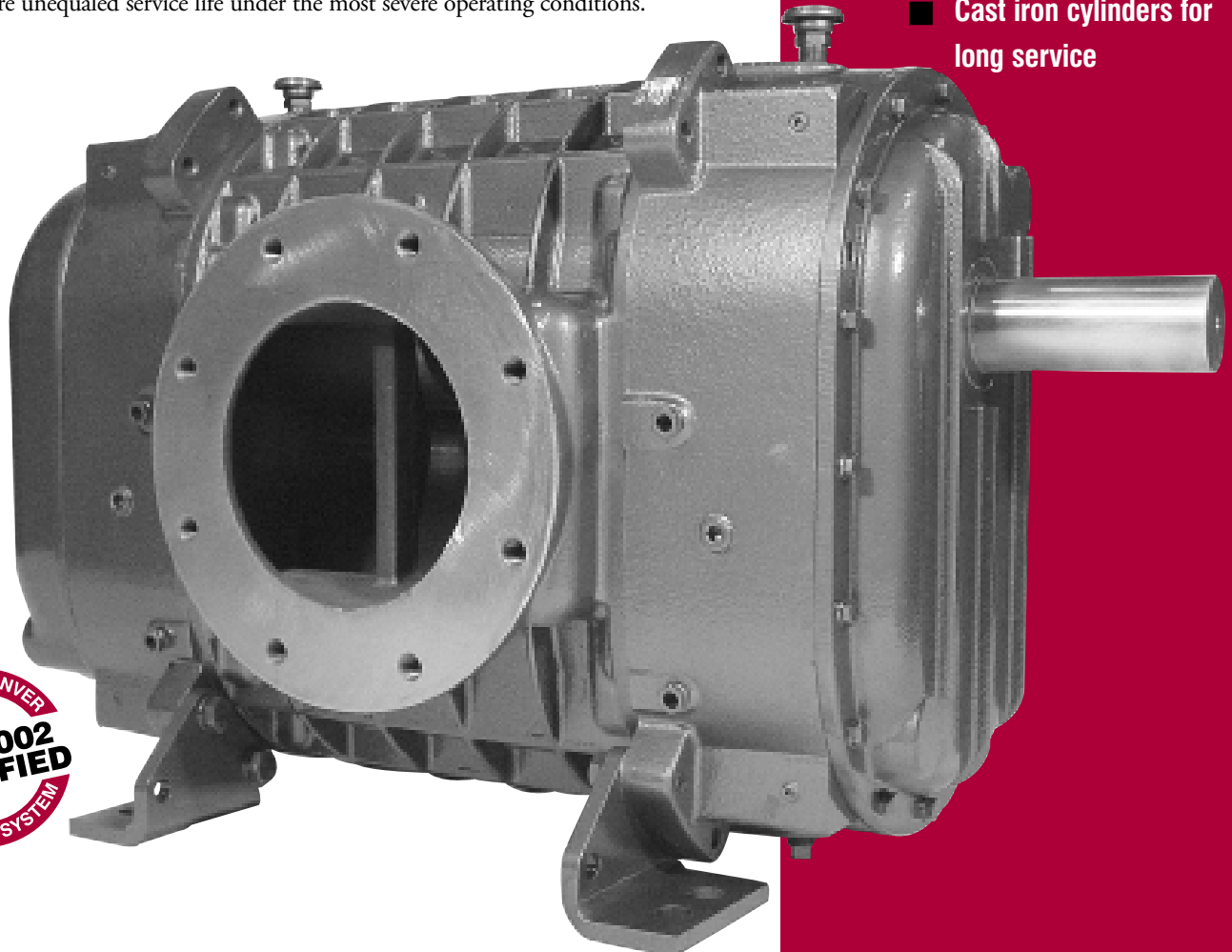
**QUALITY ASSURANCE** – Every DuroFlow is manufactured under rigid ISO 9002 quality standards and exhaustively tested to meet strict performance criteria before shipping to ensure unequalled service life under the most severe operating conditions.

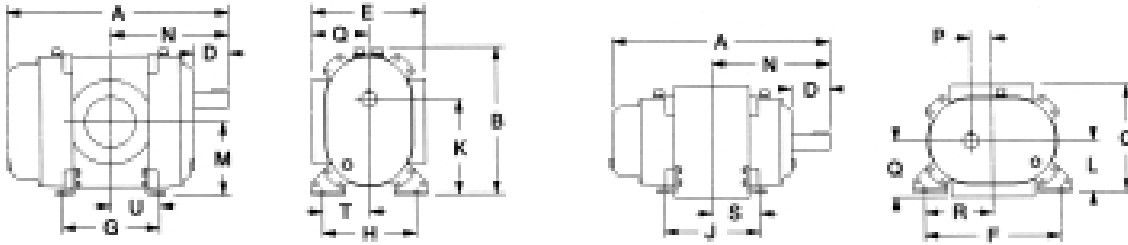


## Positive Displacement Lobe Blowers/ Vacuum Pumps

### INDUSTRIAL 70 SERIES

- Airflow to 4,300 cfm
- Pressure to 15 psig
- Vacuum to 16 "Hg
- Proven performance and reliability
- Dual splash lubrication for heavy-duty service
- Cast iron cylinders for long service





Model	Weight	Port Size Connectors	Mtg. Bolt Hole Dia.	Shaft Diameter	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
7009	740 lbs.	6" NPT	0.88	2.50	32.42	23.62	17.25	5.68	18.00	22.00	12.50	15.00	12.50	15.25	8.25	11.75	17.49	3.50	9.00	11.00	6.25	7.50	6.25
7012	850 lbs.	8" FLANGE	0.88	2.50	35.43	23.62	17.25	5.68	18.00	22.00	15.50	15.00	15.50	15.25	8.25	11.75	18.99	3.50	9.00	11.00	7.75	7.50	7.75
7015	940 lbs.	8" FLANGE	0.88	2.50	38.44	23.62	17.25	5.64	18.00	22.00	18.50	15.00	18.50	15.25	8.25	11.75	20.47	3.50	9.00	11.00	9.25	7.50	9.25
7018	990 lbs.	10" FLANGE	0.88	2.50	41.44	23.62	17.25	5.64	18.00	22.00	21.50	15.00	21.50	15.25	8.25	11.75	21.97	3.50	9.00	11.00	10.75	7.50	10.75
7023	1100 lbs.	12" FLANGE	0.88	2.50	46.44	23.62	17.25	5.62	18.00	22.00	26.50	15.00	26.50	15.25	8.25	11.75	24.47	3.50	9.00	11.00	13.25	7.50	13.25
7028	1200 lbs.	12" FLANGE	0.88	2.50	51.44	23.62	17.25	5.62	18.00	22.00	31.50	15.00	31.50	15.25	8.25	11.75	26.97	3.50	9.00	11.00	15.75	7.50	15.75

All dimensions shown in inches. Dimensions for installation purposes provided upon request.

**PRESSURE PERFORMANCE DATA**

MODEL	RPM	4 PSIG		6 PSIG		8 PSIG		10 PSIG		12 PSIG		15 PSIG	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
7009	1,500	622	15.8	563	23.5	513	31.2	469	38.9	429	46.7		
	1,800	799	19.1	740	28.4	690	37.7	646	46.9	606	56.2		
	2,650	1,300	29.3	1,241	42.9	1,191	56.5	1,147	70.2	1,108	83.8	552	70.1
7012	1,500	853	21.0	779	31.4	716	41.7	660	52.0	610	62.4		
	1,800	1,090	25.4	1,016	37.8	953	50.2	897	62.6	847	75.0	779	93.6
	2,650	1,762	38.5	1,687	56.8	1,624	75.0	1,569	93.3	1,519	111.5	1,451	138.9
7015	1,500	1,088	26.0	1,002	38.8	929	51.6	866	64.5	808	77.3		
	1,800	1,382	31.4	1,296	46.8	1,223	62.2	1,160	77.5	1,102	92.9	1,024	116.0
	2,650	2,215	47.3	2,129	69.9	2,056	92.6	1,993	115.2	1,935	137.9	1,857	171.8
7018	1,500	1,322	31.2	1,221	46.7	1,136	62.1	1,061	77.5	993	93.0	902	116.1
	1,800	1,676	37.7	1,575	56.2	1,490	74.7	1,415	93.2	1,347	111.8	1,256	139.5
	2,650	2,679	56.5	2,578	83.8	2,493	111.1	2,418	138.3	2,350	165.6	2,259	206.5
7023	1,500	1,709	41.9	1,578	61.6	1,479	81.4	1,386	101.1	1,303	120.9		
	1,800	2,162	51.5	2,037	75.2	1,932	98.9	1,839	122.6	1,756	146.3		
	2,650	3,370	80.8	3,245	115.0	3,140	149.2	3,047	183.5	2,964	217.7		
7028	1,500	2,094	51.4	1,944	75.4	1,818	99.5	1,707	123.6				
	1,800	2,646	63.4	2,496	92.2	2,370	121.1	2,259	150.0				
	2,600	4,118	100.3	3,968	142.0	3,842	183.8	3,731	225.5				

**VACUUM PERFORMANCE DATA**

MODEL	RPM	4 "Hg		6 "Hg		8 "Hg		10 "Hg		12 "Hg		14 "Hg		15 "Hg		16 "Hg	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
7009	1,500	687	7.9	632	11.7	580	15.5	528	19.3	472	23.1	412	26.9				
	1,800	864	9.7	809	14.3	757	18.8	705	23.4	649	27.9	589	32.5				
	2,650	1,365	15.4	1,311	22.1	1,259	28.8	1,206	35.5	1,151	42.2	1,090	48.9	1,058	52.2	1,023	55.6
7012	1,500	935	10.5	866	15.6	801	20.7	734	25.7	665	30.8	589	35.9				
	1,800	1,172	12.8	1,103	18.9	1,038	25.0	971	31.1	902	37.2	826	43.3	784	46.3		
	2,650	1,844	19.9	1,775	28.9	1,709	37.9	1,634	46.8	1,573	55.8	1,497	64.8	1,456	69.3	1,412	73.7
7015	1,500	1,182	13.0	1,103	19.3	1,027	25.5	951	31.8	870	38.1	783	44.4				
	1,800	1,476	15.7	1,397	23.3	1,321	30.8	1,245	38.4	1,164	46.0	1,077	53.5	1,029	57.3		
	2,650	2,309	24.2	2,230	35.4	2,154	46.5	2,078	57.6	1,997	68.7	1,910	79.9	1,862	85.4	1,812	91.0
7018	1,500	1,432	15.5	1,340	23.1	1,251	30.7	1,161	38.3	1,067	45.9	964	53.4				
	1,800	1,786	18.8	1,694	27.9	1,605	37.0	1,515	46.1	1,421	55.2	1,318	64.3	1,262	68.9		
	2,650	2,789	28.8	2,697	42.2	2,608	55.6	2,518	69.0	2,424	82.4	2,321	95.8	2,265	102.5	2,205	109.2
7023	1,500	1,847	21.8	1,732	31.5	1,622	41.2	1,510	50.9	1,393	60.6	1,266	70.3				
	1,800	2,300	27.4	2,185	39.0	2,075	50.6	1,963	62.3	1,846	73.9	1,719	85.6	1,650	91.4		
	2,600	3,508	45.9	3,393	62.7	3,283	79.6	3,171	96.4	3,054	113.2	2,927	130.0	2,858	138.4	2,784	146.8
7028	1,500	2,258	26.9	2,121	38.7	1,989	50.5	1,855	62.4	1,715	74.2	1,563	86.0				
	1,800	2,810	34.0	2,673	48.2	2,541	62.4	2,407	76.5	2,267	90.7	2,115	104.9	2,032	112.0		
	2,600	4,282	57.9	4,145	78.4	4,013	98.9	3,879	119.4	3,739	139.8	3,587	160.3	3,504	170.6	3,415	180.8

Performance based on air at standard conditions: Sea Level, 14.7 PSIA, 68° F Inlet Temperature, 36% Relative Humidity. For performance with gases other than air or at non-standard conditions, contact your Authorized DuroFlow Industrial 70 Series Representative.

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