

Ring Compressors



Specifications

PRODUCT MODEL	Max. Pressure in. H2O	Max. Vacuum in. H2O	Max. Flow: SCFM	HP	Voltage	Phase	Weight: lbs. (kg)
VFC080P-5T	19.5	18.7	19.5	0.10	115/230	1	13.3 (6.0)
VFC080A-2T	19.5	18.7	19.5	0.10	230	3	13.3 (6.0)
VFC080A-4W	19.5	18.7	19.5	0.10	460	3	13.3 (6.0)
VFC100A-7W	26.5	25	27	0.17	230/460	3	19 (8.6)
VFC100P-5T	27.5	26	27	0.17	115/230	1	19 (8.6)
VFC200A-7W	37	34	42	0.33	230/460	3	22 (10)
VFC200P-5T	34	33	42	0.33	115/230	1	22 (10)
VFC300A-5W	50	45	55	0.50	575	3	25.5 (11.5)
VFC300A-7W	50	45	55	0.50	230/460	3	25.5 (11.5)
VFC300P-5T	49	45	56	0.50	115/230	1	27 (12.3)
VFC400P-5T	54.5	50	98	1.00	115/230	1	51 (23)
VFZ401A-5W	58	52	89	1.40	575	3	46 (20.1)
VFZ401A-7W	58	52	89	1.40	230/460	3	46 (20.1)
VFB175P-5T	72	65	105	1.75	115/230	1	40 (18.1)
VFC508P-2T	80	70	154	2.50	200/230	1	97.5 (44)
VFZ501A-5W	80	80	135	2.70	575	3	77 (35)
VFZ501A-7W	80	78	135	2.70	230/460	3	77 (35)
VFZ601A-5W	134	95	173	5.00	575	3	108 (49)
VFZ601A-7W	134	95	173	5.00	230/460	3	108 (49)
VFZ701A-5W	105	99	217	6.70	575	3	134 (60.8)
VFZ701A-7W	105	99	217	6.70	230/460	3	134 (60.8)
VFZ801A-5W	115	108	379	10.70	575	3	211 (95.7)
VFZ801A-7W	115	108	379	10.70	230/460	3	211 (95.7)
VFZ901A-5W	100	85	574	14.70	575	3	259 (117.5)
VFZ901A-7W	100	85	574	14.70	230/460	3	259 (117.5)
VFB2000-7W	90	115	755	20.00	230/460	3	143 (65)
2VFB30-1.2-5T	100	100	57	1.20	115/230	1	36 (16.6)
2VFB30-1.2-7W	125	110	56	1.20	230/460	3	36 (16.6)
2VFB40-3.42-7W	172	140	106	3.42	230/460	3	64 (29)
2VFB50-6.16-7W	189	165	158	6.16	230/460	3	106 (48.2)
2VFB60-11.5-7W	245	185	222	11.50	230/460	3	177 (80.5)
2VFB60-8.4-5W	200	177	222	8.40	575	3	170 (77.3)
2VFB60-8.4-7W	200	177	222	8.40	230/460	3	170 (77.3)
VFD2-L	84	72	54	0.88	230	3	33 (15)
VFD2-H	84	72	54	0.88	460	3	33 (15)
VFD2S	84	72	54	1.00	115	1	33 (15)
VFD41-L	72	76	120	2.20	230	3	48 (21.8)
VFD41-H	72	76	120	2.20	460	3	48 (21.8)
VFD41S	96	96	120	2.20	230	1	46 (20.9)
VFD42-L	100	104	120	2.60	230	3	51 (23.2)
VFD42-H	100	104	120	2.60	460	3	51 (23.2)
VFD5-L	137	120	148	4.00	230	3	78 (35.5)
VFD5-H	137	120	148	4.00	460	3	78 (35.5)
VFD6-L	90	85	198	4.80	230	3	77 (35)
VFD6-H	90	85	198	4.80	460	3	77 (35)

Applications



Pneumatic Conveying

Fuji Electric Ring Compressors are the “engines” for these critical pneumatic tube systems for the medical industry.



Wastewater Treatment

Fuji Electric Blowers provide clean, dry air for aeration in wastewater treatment systems.



Aquaculture

Fuji Electric blowers provide aeration for shrimp and fish farming applications.



Concrete Aeration

Fuji Electric blowers provide aeration for dry concrete batch plants.



Air Monitoring

Fuji Electric blowers are used in both pressure and vacuum systems to monitor air quality.

Features

Integrated Suction and Discharge Silencers reduce blower noise levels. Dynamically balanced Die cast impellers allows for vibration free operation. Shielded Shaft bearings and seals provide grease retention and protect bearings for longer life. Multi-voltage Fuji Electric Blower Motors are manufactured to minimize OEM inventory requirements. Removable Threaded Flanges allow for ease of maintenance or replacement and Built-in Thermal switches protect motors from overheating.

Principles of Operation

Fuji Electric Ring Compressors are high volume, low pressure devices used for pressure or vacuum applications. The unit consists of an impeller mounted directly to the motor shaft rotating at a speed of 3450 RPM. As the impeller spins and the blades pass the inlet port, a low-pressure area is created drawing air into the inlet port of the blower. The impeller blades impart motion to the air, throwing it outward and forward. The air follows the contour of the impeller housing and this is repeated as the impeller turns. This action causes the regeneration process and the air increases in pressure as it reaches the outlet port. Fuji Electric Ring Compressors are capable of pressures up to 245 inches of water and Air flow rates up to 755 cubic feet per minute. These devices compress air in such a way that there is no lubrication needed; the discharge air is free from any oil.

Construction

Fuji Electric Ring Compressors are designed to meet the most critical application requirements. Each unit features an impeller, mounting base and housing manufactured of Aluminum Alloy for maximum strength, reduced weight and increased corrosion resistance. The units are designed for mechanical simplicity and maximum structural integrity. All motors are TEFC (TENV on models less than 1/10 HP). The devices are UL Recognized, CSA Certified and CE Compliant. Each unit contains a built-in pilot duty thermal protector.

Optional Products



Accessories

Fuji Electric provides a wide variety of Blower accessories to complete your installation. Accessories include Pressure and Vacuum Relief Valves, Inlet and Vacuum Filters, Aspirators, Silencers and Vacuum Boosters.

Air Knives

Fuji Electric provides engineered air knives and air knife systems. We can provide individual components or turn-key systems

Systems

Fuji Electric provides engineered systems incorporating Fuji Electric Ring Compressors. Engineered Designs include Industrial Vacuum Systems, Engine-Driven Blower Systems for remote operations and Aspirator Systems.



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