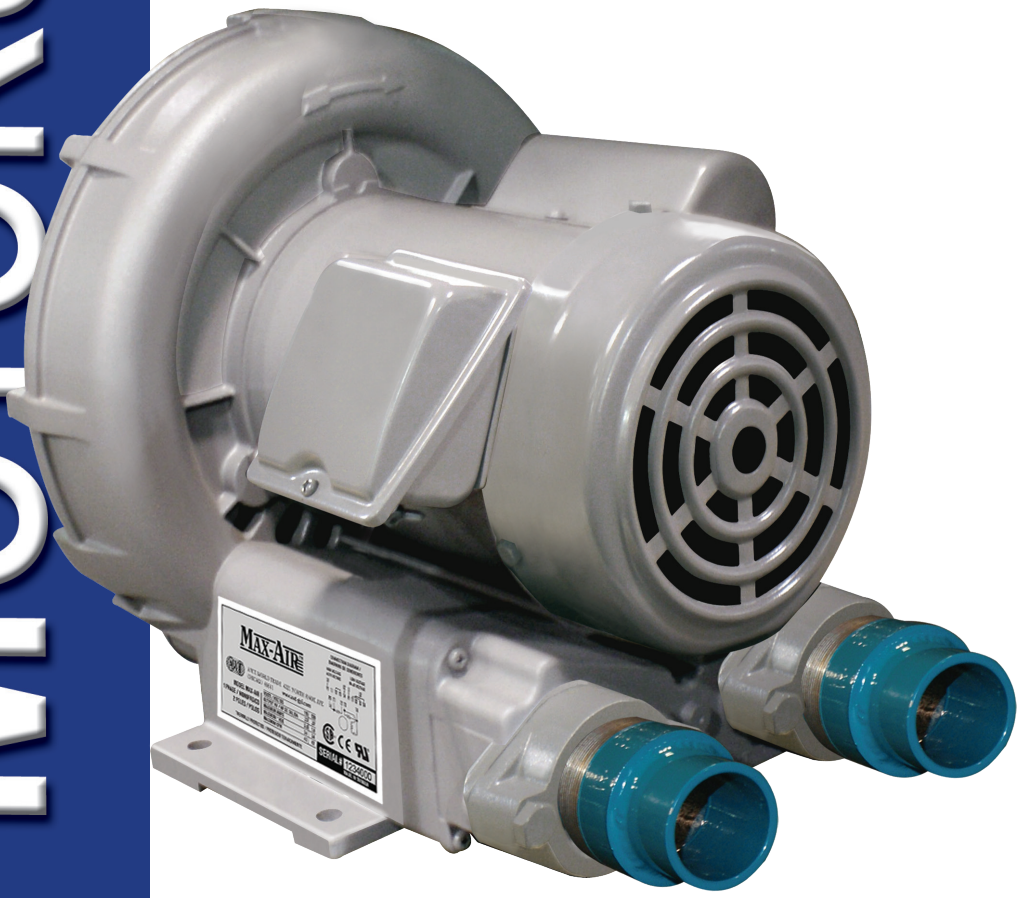
Vacuum Motors

Max-Air™ Powerful • Low Pressure High Volume



The G.P.I. Max-Air™ is a non-positive displacement, high volume, low pressure vacuum motor that can operate as a vacuum, compressor or blower.

- **Suction Discharge**
- **Die Cast Impeller**
- **Dynamically Balanced Impeller**
- **Double Shielded Shaft Bearing**
- **Dust Proof Shaft Seal**
- **Motor Shaft-Mounted Impeller**
- **Improved Cooling Fan Design**
- **Built-in Thermal Protector**
- **Compact Design**
- **Removable Threaded Flanges**

The Max-Air consists of an impeller mounted directly on a motor shaft and is rotated at a high speed, about 3600 RPM. On the periphery of the impeller is a large number of radial blades. The impeller is positioned between two endplates with the blades located with a channel on either side.

The basic construction of the Max-Air means that the only moving part is the impeller. Nothing touches except the bearings. The method of compression means that there is no requirement for lubrication in the compression chamber; the discharge air is oil-less. No oil aerosols are present in the discharge air, nor carbon dust generated by sliding vanes. The Max-Air may be mounted vertically (with impeller housing down) or horizontally.

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A Division of The A.W.T. World Trade Group
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vacuum motors

MAX-AIR™

POWERFUL • LOW PRESSURE • HIGH VOLUME

The complete line of Max-Air motors is designed to meet the most critical application requirements. Each features an impeller mounting base and housing manufactured of aluminum alloy for maximum strength, reduced weight and increased corrosion resistance. The compressor and motor are constructed as a unit for mechanical simplicity and maximum structural integrity. The elimination of clutches, gears, belts, and sliding vanes reduces periodic maintenance while increasing reliability.

GPI-32-VM

GPI-48-VM

GPI-64-VM

GPI-80-VM

Not Shown: GPI-96A-VM • GPI-112A-VM • GPI-128A-VM • GPI-144A-VM

Specifications

Max-Air motor only

Model No.	Hz	Voltage	Amps-Max. Rated Low/High Voltage	Amps-Locked Rotor Low/High Voltage	HP	Max. Pressure in. H_2O	Max. Vacuum in. H_2O	Max. Vacuum in. Hg (Mercury)	Max. Airflow SCFM	Min. Airflow SCFM	Max. Temp Rise (△T) °F (°C)	Weight lbs. (kg)
GPI-32-VM	60	115–230	3.6/1.8	11/5.5	1/3	34	33	2.4	42	3.5	72 (40)	22 (10)
	50	110–220	3.0/1.5	10/5	1/3	26	25	1.8	35	3.5	65 (35)	22 (10)
GPI-48-VM	60	115–230	5.0/2.5	17/8.5	1/2	49	45	3.3	56	17	54 (30)	27 (12.3)
	50	110–220	3.8/1.9	15/7.5	1/2	38	34	2.48	49	10	47 (27)	27 (12.3)
GPI-64-VM	60	115–230	8.6/4.3	24/12	1	54.5	50	3.6	98	3.5	119 (65)_	51 (23)
	50	110–220	6.0/3.0	22/11	1	40	37	2.7	84	3.5	101 (55)	51 (23)
GPI-80-VM	60	200–230	12/11	70/80	2.5	80	70	5.1	154	60	72 (40)	97.5 (44)
	50	200–230	8.5/8	70/75	2.5	60	53	3.9	130	45	65 (35)	97.5 (44)
GPI-96A-VM	60	200-240/400-480	12-11/6.0-5.5	78-90/39-45	4.5	118	98	7.1	206	56	126 (70)	114 (52)
	50	190-230/380-460	9.2-10.5/4.6-5.2	88-102/44-51	4.5	86	72	5.2	175	28	108 (65)	114 (52)
GPI-112A-VM	60	200-240/400-480	15.6-16/7.8-8.0	110-115/50-58	7	114	96	7	267	88	137 (75)	180 (82)
	50	190-230/380-460	13-14/6.5-7.0	104-128/52-64	7	81	71	5.18	220	63	108 (60)	180 (82)
GPI-128A-VM	60	200-240/400-480	26-23/13-11.5	144-160/72-80	10	135	110	8	388	135	137 (75)	287 (130)
	50	190-230/380-460	18-19/9.0-9.5	164-190/82-95	10	100	83	6	320	88	137 (75)	287 (130)
GPI-144A-VM	60	200-240/400-480	48-44/24-22	290-330/145-165	20	139	110	8	570	195	162 (90)	450 (205)
	50	190-230/380-460	32-28/16-14	310-350/155-175	20	90	75	5.5	500	140	155 (85)	450 (205)

Max-Air Motors with Ports

Model No.	Description
GPI-VM32-150	MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1/3 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM48-150	MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1/2 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-150	MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-175	MAX-AIR Quiet-Brushless Vacuum Motor with 1-3/4" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-300	MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM80-300	MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM80A-300	MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz

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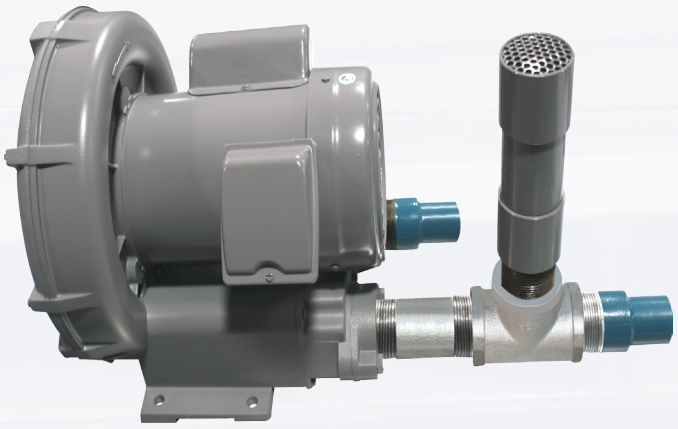
Specifications

Max-Air Motors with Optional Relief Valves and Ports

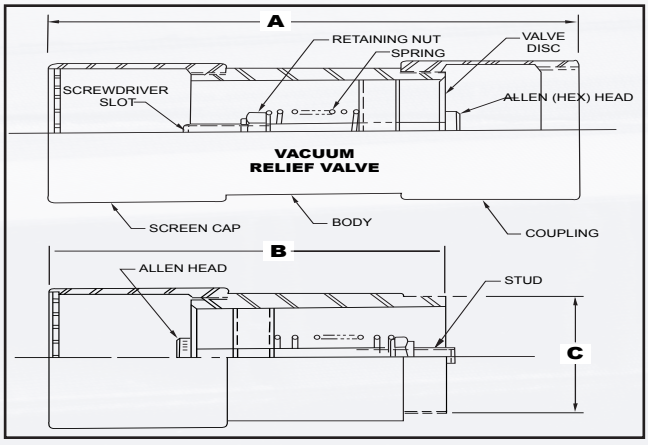
Model No.	Description
GPI-VM32-150-R	Relief valves not required
GPI-VM48-150-R	AWT MAX-AIR Vacuum Motor with Relief Valve and 1-1/2" Port - 1/2 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-150-R	AWT MAX-AIR Vacuum Motor with 1-1/2" Port 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-175-R	AWT MAX-AIR Vacuum Motor with 1-3/4" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM64-300-R	AWT MAX-AIR Vacuum Motor with 3" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM80-300-R	AWT MAX-AIR Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz
GPI-VM80A-300-R	AWT MAX-AIR Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz

Options & Accesories

Vacuum relief valves: The optional vacuum relief valves are designed to protect the Max-Air from overheating in a vacuum or pressure (dead-head) condition. The valves are preset to provide protection for each motor or are adjustable to provide down to approximately 65% "dead-head" vacuum .



Vacuum / pressure relief valve



Vacuum / pressure relief valves diagram

Specifications

Vacuum *Relief Valves

Model No.	Description	Fits model	A	B	C
GPI-48-VRV	*Relief valve 39" water gauge, 1-1/2 FPT	VM48	6-1/4" (15.8 cm)	4-11/16" (12 cm)	1-1/2" (3.8 cm) NPT
GPI-64-VRV	Relief valve 42" water gauge, 1-1/2 FPT	VM64	6-1/4" (15.8 cm)	4-11/16" (12 cm)	1-1/2" (3.8 cm) NPT
GPI-80-VRV	Relief valve 60" water gauge, 1-1/2 FPT	VM80	6-1/4" (15.8 cm)	4-11/16" (12 cm)	1-1/2" (3.8 cm) NPT

*Relief valve not required on Max-Air model GPI-32-VM

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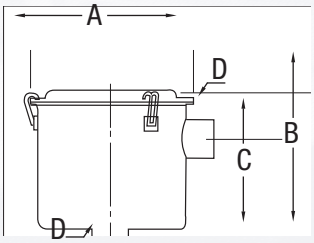
Options & Accesories

Optional In-line Filters



Filter Model No.	Use with Motor	A Dimension	B Dimension	C Dimension	D Dimension	Replacement Element
GPI-3248-VF	VM32 AND VM48	7-5/16" (18.5 CM)	6-1/2" (16.5 CM)	4-1/2" (11.4 CM)	1-1/4" (3.17 CM) FPT	GPI-3248-VFE
GPI-6480-VF	VM64 and VM80	7-5/16" (18.5 CM)	6-1/2" (16.5 CM)	4-1/2" (11.4 CM)	1-1/2" (3.8 CM) FPT	GPI-6480-VFE
GPI-96112-VF	VM96 and VM112	8-3/4" (22.2 CM)	10-1/4" (26 CM)	5-1/2" (13.9 CM)	2" (5 CM) FPT	GPI-96112-VFE
GPI-128144-VF	VM128 and VM144	14" (35.5 CM)	27-1/8" (68.8 CM)	18-1/2" (46.9 CM)	3" (7.6 CM) FPT	GPI-128144-VFE

Fittings

Model No.	Description	For Models
GPI-AY20TG	Galvanized Iron Tee 1-1/4" NPT - 150 psi	VM48-150-R
GPI-AY24TG	Galvanized Iron Tee 1-1/2" NPT - 150 psi	
GPI-AY2040NG	Galvanized Steel Pipe Nipple 1-1/4 X 2-1/2" Threaded Both Ends - SCH 40	VM48-150-R
GPI-AY2448NG	Galvanized Steel Pipe Nipple 1-1/2 X 3" Threaded Both Ends - SCH 40	VM128 and VM144
GPI-AY2464NG	Galvanized Steel Pipe Nipple 1-1/2 X 4" Threaded Both Ends - SCH 40	
GPI-AY2096N80	1-1/4 X 6" Length Pipe Threaded Both Ends	VM48-150
GPI-AY2420RB	1-1/2" Male X 1-1/4" Female Hex Pipe Bushing	VM48-150-R
GPI-AY1632NTOE	1" Pipe 2" Length Steel Nipple Threaded One End - SCH 40	VM32
GPI-AY2448NTOE0	1-1/2" Pipe X 3" Length Steel Nipple Threaded One End	VM64-300

Adapter Plate

Model No.	Description	For Models
VM-AP	Adapter Plate to mount new Max-Air motors (VM-series) to AWT and American M&M machines.	
NOTE: Specify machine name, model number and print size.		

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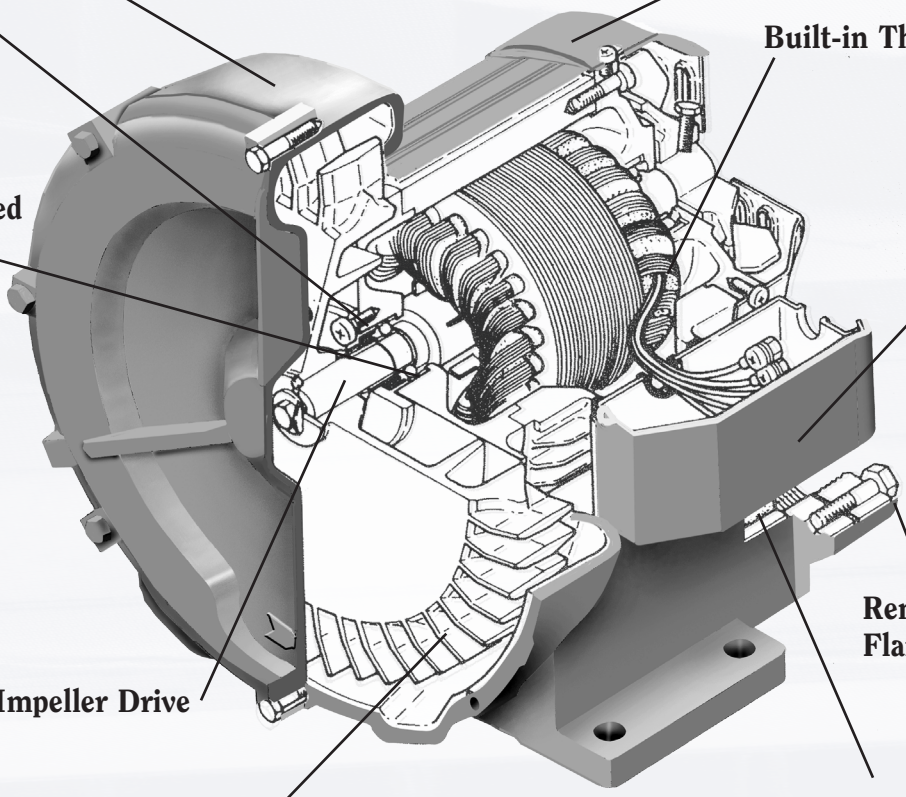

NOTES

vacuum motors

The A.W.T. World Trade Group

Your Complete Manufacturing Source for Screen Printing Equipment, Supplies & Parts

Building on more than 30 years experience in serving clients in the graphic, textile and industrial markets, A.W.T. World Trade Group provides screen printers with a complete manufacturing source for screen print machinery, prepress and printing supplies, machine parts, and remanufactured equipment.

Experience shows that when printers use a single manufacturing source, costly incompatibility problems between equipment lines and suppliers are greatly reduced. A.W.T. develops complete systems that work efficiently and economically to avoid printing errors, reduce downtime, and keep you profitable.

Our technical sales staff will make sure you choose the right system for your company's needs, delivering the performance you require at a cost within your budget. Industry experts in both technical support and service will walk you through the installation and setup process for maximum productivity right from the start.

The A.W.T. World Trade Group was formed in 2002 when A.W.T. World Trade Inc. and Graphics Parts International Inc. aquired American Screen Printing Equipment. The group further expanded its range with the startup of Specialized Safety Products in 2008 and the aquisition of General Cylinder Presses in 2010.

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