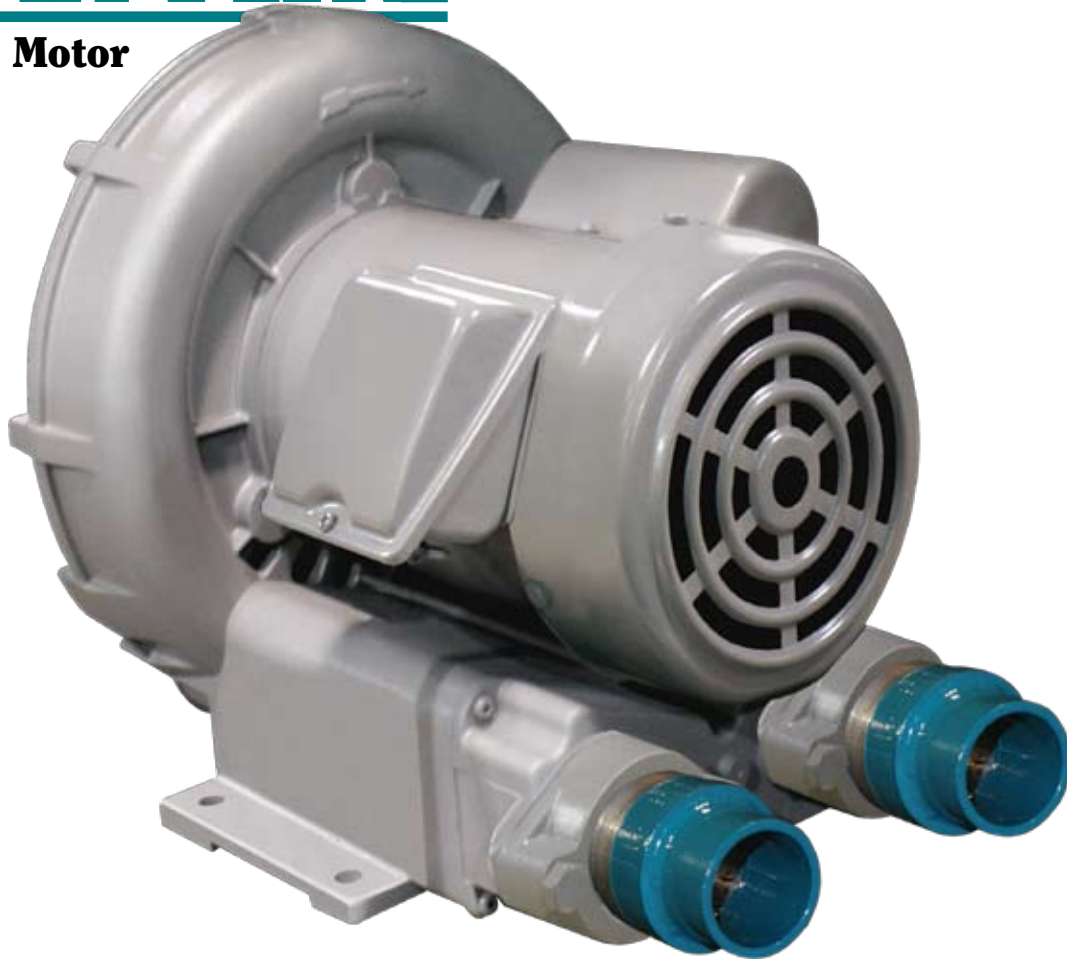


MAX-AIR™

Vacuum Motor

*Moving Ahead
With Technology*



FEATURES

- 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 A.W.T. Max-Air™ is a non-positive displacement, high volume, low pressure vacuum motor that can operate as a vacuum, compressor or blower.

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.



Manufactured by
A.W.T. World Trade Inc.
Division of The A.W.T. World Trade Group

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MAX-AIR™

Powerful, Low-Pressure, High-Volume Vacuum Motor

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 cor-

rosion 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.



VM32



VM48



VM64



VM80

Not Shown: VM96A • VM112A • VM128A • VM144A

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 ₂ O	Max. Vacuum in. H ₂ O	Max. Vacuum in. Hg (Mercury)	Max. Airflow SCFM	Min. Airflow SCFM	Max. Temp RISE (ΔT) °F (°C)	Weight lbs. (kg)
VM 32	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)
VM 48	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)
VM 64	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)
VM 80	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)
VM 96A	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)
VM 112A	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)
VM 128A	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)
VM 144A	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
VM 32-150	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1/3 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 48-150	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1/2 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-150	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-175	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-3/4" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 80-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 80A-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz



VM 32-150



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Specifications

Max-Air Motors with Optional Relief Valves and Ports

Model No.	Description
VM 32-150	Relief valves not required
VM 48-150	AWT MAX-AIR Quiet-Brushless Vacuum Motor with Relief Valve and 1-1/2" Port - 1/2 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-150	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-1/2" Port 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-175	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 1-3/4" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 64-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 1 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 80-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz
VM 80A-300	AWT MAX-AIR Quiet-Brushless Vacuum Motor with 3" Port - 2.5 HP - 110-115/220-230V,1Ph, 50-60 Hz

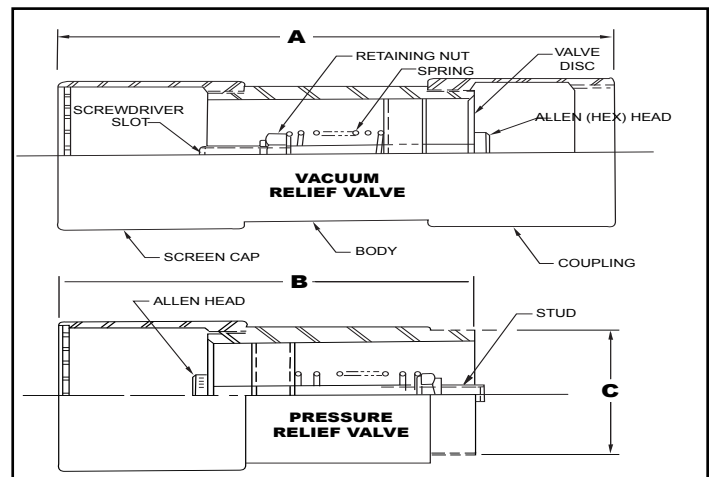
Options & Accesories

- **Vacuum and pressure relief valves:** The optional vacuum and pressure 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 or pressure.



Vacuum / pressure relief valve



Vacuum / pressure relief valves diagram

Specifications

Vacuum/Pressure Relief Valves

Model No.	Description	Fits model	A	B	C
AY48	*Relief valve 39" water gauge, 1-1/2 FPT	VM 48	6-1/4" (15.8 cm)	4-11/16" (12 cm)	1-1/2" (3.8 cm) NPT
AY64	Relief valve 42" water gauge, 1-1/2 FPT	VM 64	6-1/4" (15.8 cm)	4-11/16" (12 cm)	1-1/2" (3.8 cm) NPT
AY80	Relief valve 60" water gauge, 1-1/2 FPT	VM 80	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 VM32



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MAX-AIR™

A Powerful, Low-pressure, High-volume Vacuum Motor

Options & Accessories

Optional In-line Filters

Model No.	Description	For Models
F3248V	Vacuum in-line Filter	VM32 and VM48
F6480V	Vacuum in-line Filter	VM64 and VM80
F96112V	Vacuum in-line Filter	VM96 and VM112
F128144V	Vacuum in-line Filter	VM128 and VM144

Fittings

Model No.	Description	For Models
AY20TG	Galvanized Iron Tee 1-1/4" NPT - 150 psi	VM48-150-R
AY24TG	Galvanized Iron Tee 1-1/2" NPT - 150 psi	
AY2040NG	Galvanized Steel Pipe Nipple 1-1/4 X 2-1/2" Threaded Both Ends - SCH 40	VM48-150-R
AY2448NG	Galvanized Steel Pipe Nipple 1-1/2 X 3" Threaded Both Ends - SCH 40	VM128 and VM144
AY2464NG	Galvanized Steel Pipe Nipple 1-1/2 X 4" Threaded Both Ends - SCH 40	
AY2096N80	1-1/4 X 6" Length Pipe Threaded Both Ends	VM48-150
AY2420RB	1-1/2" Male X 1-1/4" Female Hex Pipe Bushing	VM48-150-R
AY1632NTOE	1" Pipe 2" Length Steel Nipple Threaded One End - SCH 40	VM32
AY2448NTOEO	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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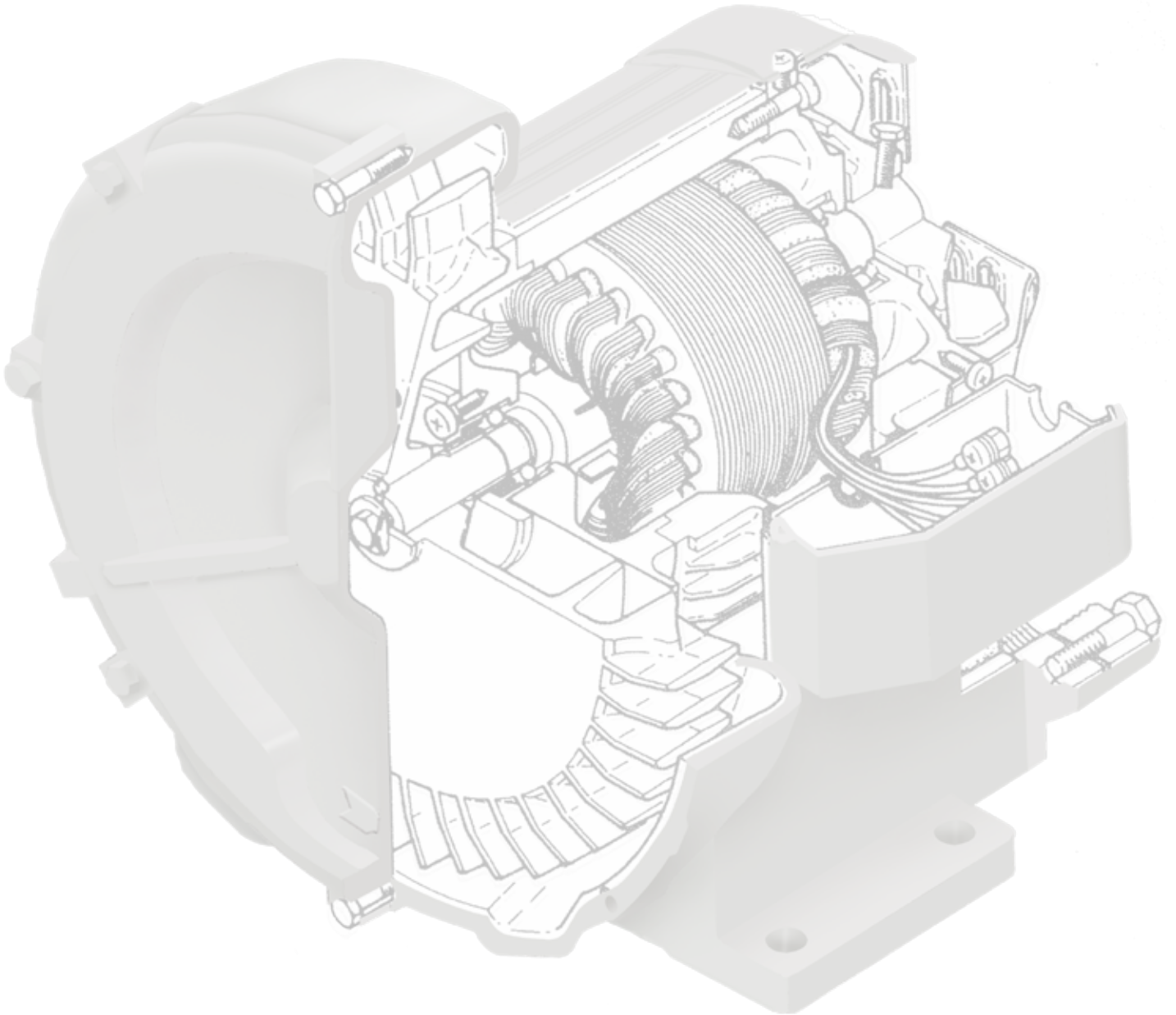
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MAX-AIRTM

A Powerful, Low-pressure, High-volume Vacuum Motor

NOTES



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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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