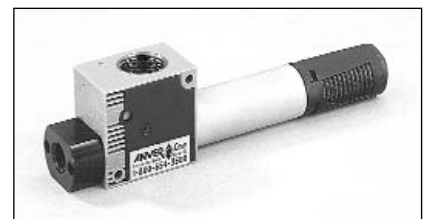
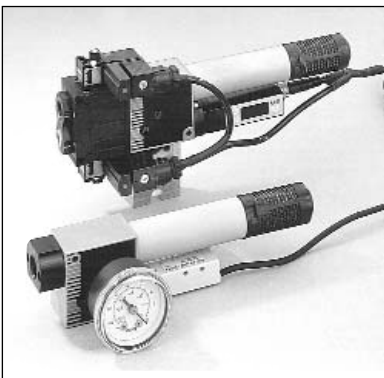
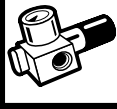


3

Section

Air Powered Vacuum Generators & Accessories





Air Vacuum Generators

Air Powered Vacuum Generators (Ejectors)

Air Powered Vacuum Generators (Ejectors or Venturis) are available from ANVER in various flow rates and vacuum generating capacities. This modular series allows remarkable flexibility in fulfilling a variety of applications. Each system uses compressed air to draw a vacuum with optional built-in electric or pneumatic control valves. The 'economizer' version conserves energy by using compressed air only when needed.

ANVER single stage venturi vacuum generators may be used anywhere that more conventional vacuum systems are used. Actually, several characteristics make these generators well suited for many tasks, including low cost, no maintenance, quiet operation, small size, light weight, and flow rates up to nearly 12 SCFM while generating up to 90% vacuum (27 in. Hg).

Single Stage vs.

Multi-Stage Air Vacuum Generators

In general, multi-stage generators have been recommended for porous materials or anywhere a high flow rate and low vacuum is necessary. Grouping single stage type generators can achieve the same results. This configuration also adds an extra measure of safety by allowing separate control of each cup or series of cups. For most situations, the single stage generator is preferable to the multi-stage generator based on price, size, and maintenance.

Single Stage Air Vacuum Generators vs. Electric Vacuum Pumps

Electric powered vacuum pumps are presently used in many situations. However, using an air powered generator has many advantages, especially when compressed air is already available. Air power is more economical when intermittent vacuum is required. For many situations, choosing these single stage generators over electric vacuum pumps has many benefits, including price, size, noise of operation, and maintenance.

Advantages:

- Excellent reliability
- Large capacity systems
- Compact
- Quiet operation
- Lightweight
- Rapid cycling
- No maintenance
- Leak proof, internal air connections
- Easy connection to existing compressed air network
- Explosion proof w/pneumatic controls
- Energy efficient 'economizer' version
- PLC connections possible

Applications

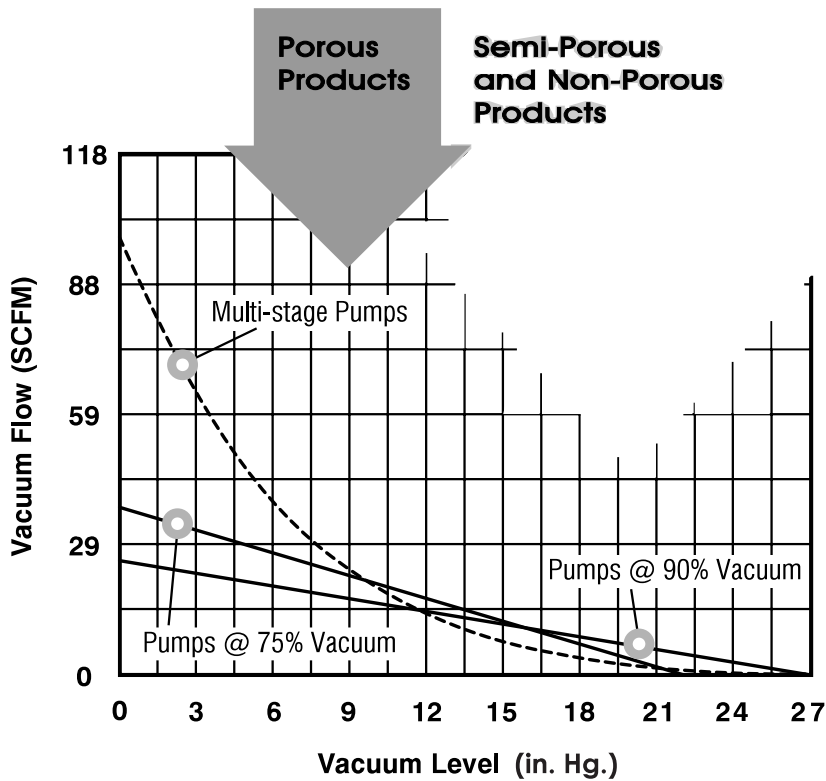
- Robotics
- Pick-and-Place
- Packaging - box and bag opening
- Packaging - filling containers
- Bottle Handling
- Light Metals (Foil) Handling
- Food Products - bagging
- Wooden furniture - lifting or handling
- Plastics - removing from molds
- Air quality sampling
- Liquid measuring and transferring
and Many, Many More.....

Air Powered Vacuum Generators & Accessories



Comparing Technologies

When choosing a vacuum generator, factors to be considered are the required vacuum level, vacuum flow, and the ratio between them, generally referred to as vacuum characteristics. The chart below compares the general performance and application of the main types of air vacuum generators offered in today's market. Data reflects equivalent air consumption for each generator.





Air Powered Vacuum Generators &

Choosing A Generator - A Comparison of Features

— Seconds To Evacuate 1 Cubic Foot —									
	Vacuum (in. Hg)								
Model	3	6	9	12	15	18	21	24	27
VR05	25.5	54.4	87.8	127.4	175.6	237.9	325.6	475.7	974.4
VR07	15.0	31.7	51.3	74.2	102.5	138.8	190.0	277.5	568.3
VR09	8.5	18.1	29.2	42.5	58.6	79.3	108.5	158.6	324.8
JB12H	4.2	9.1	14.7	21.2	29.2	39.6	54.4	79.3	162.5
JB15H	2.5	5.7	9.1	13.3	18.4	24.9	34.0	49.8	101.9
JB20H	1.7	3.4	5.4	7.9	10.8	14.7	20.1	29.4	60.3
JB25H	0.8	2.0	3.1	4.5	6.2	8.2	11.3	16.7	34.0
JB30H	0.8	1.4	2.5	3.7	4.8	6.8	9.1	13.3	27.2
Model	3	6	9	12	15	18	21	24	25
JV07	15.0	31.7	51.3	74.2	102.5	138.8	190.0	277.5	376.5
JV09	8.5	18.1	29.2	42.5	58.6	79.3	108.5	158.6	213.4
Model	3	6	9	12	15	18	21	22.5	
JB12M	3.1	6.8	11.0	16.7	24.1	35.1	58.9	94.0	
JB15M	2.0	4.0	6.5	9.9	14.2	20.7	34.8	55.8	
JB20M	1.1	2.5	4.0	5.9	8.8	12.7	21.5	34.0	
JB25M	0.8	1.7	2.5	4.0	5.7	8.2	13.6	21.8	
JB30M	0.6	1.1	2.0	2.8	4.2	6.2	10.5	16.4	

— Standard Features —												
Model	JV	JVC	VR	JB	JBC	JBD	JR	JRC	JBDS	JBS	JECS	JEDS
Air Supply Port *	M5 4T**	M5 4T**	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT	¼"NPT
Vacuum Port *	M5 4T**	M5 4T**	M6 ½"NPT	½"NPT	½"NPT	½"NPT	½"NPT	½"NPT	½"NPT	½"NPT	½"NPT	½"NPT
Air Supply Valve	N	Y	N	N	Y	Y	N	Y	Y	N	Y	Y
Check Valve-Vacuum	N	N	N	N	N	N	N	N	Y	Y	Y	Y
Blow-off	N	N	N	N	N	Y	Y	Y	Y	Y	N	Y
Blow-off Valve	N	N	N	N	N	Y	N	N	Y	N	N	Y
Check Valve-Blow-off	N	N	N	N	N	N	N	N	Y	N	N	Y

* Adapters for different port sizes available
 ** 4T = 5/32" [4mm] type Push-connect fitting



Vacuum Cups and Suction Cups

Anver Small Compressed Air Venturi Vacuum Pumps

Specifications:

Model (Series)	Max Vacuum Level	Vacuum Flow:	Air Consumption
JV07 Series	26 in. Hg (660 mm Hg)	0.50 scfm (14 l/min.)	0.74 scfm (21 l/min.)
JV09 Series	26 in. Hg (660 mm Hg)	0.74 scfm (21 l/min.)	1.27 scfm (36 l/min.)









Requires: 50 Micron, Filtered, Non-lubricated, Dry Compressed Air. Optimum Operating Pressure is 5 bar (72.5 psi)
Operating Temperature: -10 to +80°C (14 to 176°F)

Model Number	Description
JV Series Basic Vacuum Generators	
JV07	 Mini Vacuum Generator with M5 - 10/32 Ports
JV07T	 Mini Vacuum Generator with 5/32" (4 mm) O.D. Tubing
JV09	 Mini Vacuum Generator with M5 - 10/32 Ports
JV09T	 Mini Vacuum Generator with 5/32" (4 mm) O.D. Tubing
JV Series Basic Vacuum Generators with Muffler	
JV07ES	 JV07 Mini Vacuum Generator with muffler, with M5 - 10/32 Ports
JV07TES	 JV07T Mini Vacuum Generator with muffler, 5/32" (4 mm) O.D. Tubing
JV09ES	 JV09 Mini Vacuum Generator with M5 - 10/32 Ports and muffler
JV09TES	 JV09T Mini Vacuum Generator with muffler, 5/32" (4 mm) O.D. Tubing

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Vacuum Cups and Suction Cups





Anver Small Compressed Air Venturi Vacuum Pumps

Model Number	Description
JV Series Vacuum Generators with Single Valve to Control Vacuum	
JV07CE	 JV07 Mini Vacuum Generator with 24vdc Vacuum Control Valve, with M5 - 10/32 Ports
JV07CET	 JV07T Mini Vacuum Generator with 24vdc Vacuum Control Valve, 5/32" (4 mm) O.D. Tubing
JV09CE	 JV09 Mini Vacuum Generator with 24vdc Vacuum Control Valve, with M5 - 10/32 Ports
JV09CET	 JV09T Mini Vacuum Generator with 24vdc Vacuum Control Valve, 5/32" (4 mm) O.D. Tubing
JV Series Vacuum Generators with Double Valves to Control Vacuum and Blow-Off	
JV07CED	 JV07 Mini Vacuum Generator with 24vdc Vacuum & Blow Off Control Valves, with M5 - 10/32 Ports
JV09CED	 JV09 Mini Vacuum Generator with 24vdc Vacuum & Blow Off Control Valves, with M5 - 10/32 Ports
JV07TCED	 JV07T Mini Vacuum Generator with 24vdc Vacuum & Blow Off Control Valves, 5/32" (4 mm) O.D. Tubing
JV09TCED	 JV09T Mini Vacuum Generator with 24vdc Vacuum & Blow Off Control Valves, 5/32" (4 mm) O.D. Tubing



Vacuum Cups and Suction Cups

Anver Small Compressed Air Venturi Vacuum Pumps

Model Number	Description
Accessories for JV Series Mini Vacuum Generators	
JVM-2	 <p>Two Station Manifold for JV Series Mini Vacuum Generators</p>
JVM-4	 <p>Four Station Manifold for JV Series Mini Vacuum Generators</p>
JVEM	 <p>Optional Exhaust Muffler for JV Series Mini-Vacuum Generators (for use with JV Series Generators in stand-alone applications only). The muffler presses on to the body and locks in place.</p>
JVSF	 <p>Optional Sensor Fitting, allows for the addition of a Remote Mounted Vacuum Sensor for precision control or system monitoring (for use with M5 10/32 thread port models).</p>

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