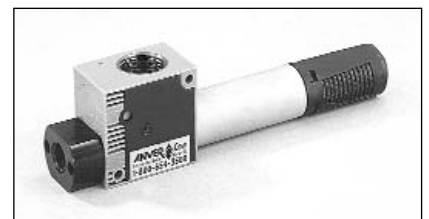
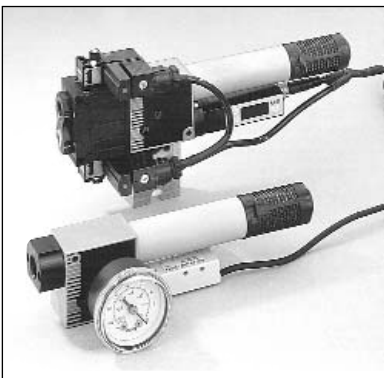
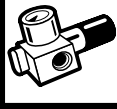


# 3

## 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**

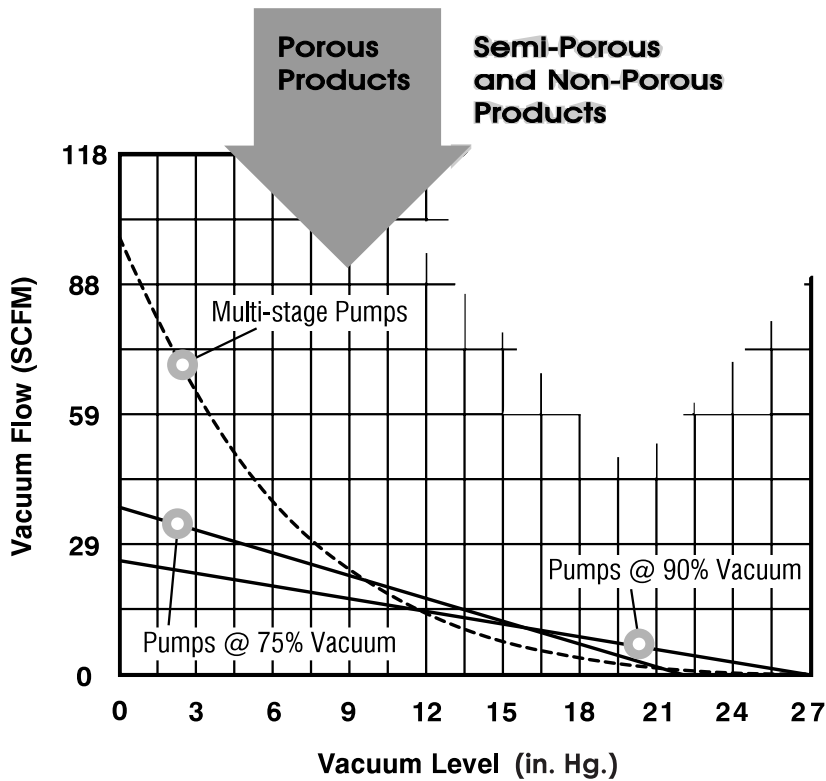
- Robotics
- Pick-and-Place
- Packaging - box and bag opening
- Packaging - filling containers
- Bottle Handling
- Light Metals (Foil) Handling
- Food Products - bagging
- Wooden furniture - lifting or handling
- Plastics - removing from molds
- Air quality sampling
- Liquid measuring and transferring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

## Single Stage Vacuum Pumps Basic Generator



### C-CV Series

The ANVER C-CV Series Vacuum Generator is a maintenance free vacuum pump ideally suited for all pick and place material handling applications. With a machined aluminum body, brass internal nozzles, and compact design, these vacuum pumps can be an economical and reliable choice for your material handling needs.

#### Specifications:

No Moving Parts; Compact and Maintenance Free.

On/Off Control requires a separate air valve.

Media : Non-Lubricated Air & Non-Corrosive Gases

Operating Pressure : 72 psi

Operating Temperature : 32° - 140°F

Material : Aluminum Body, Brass Nozzle, Nitrile Seals

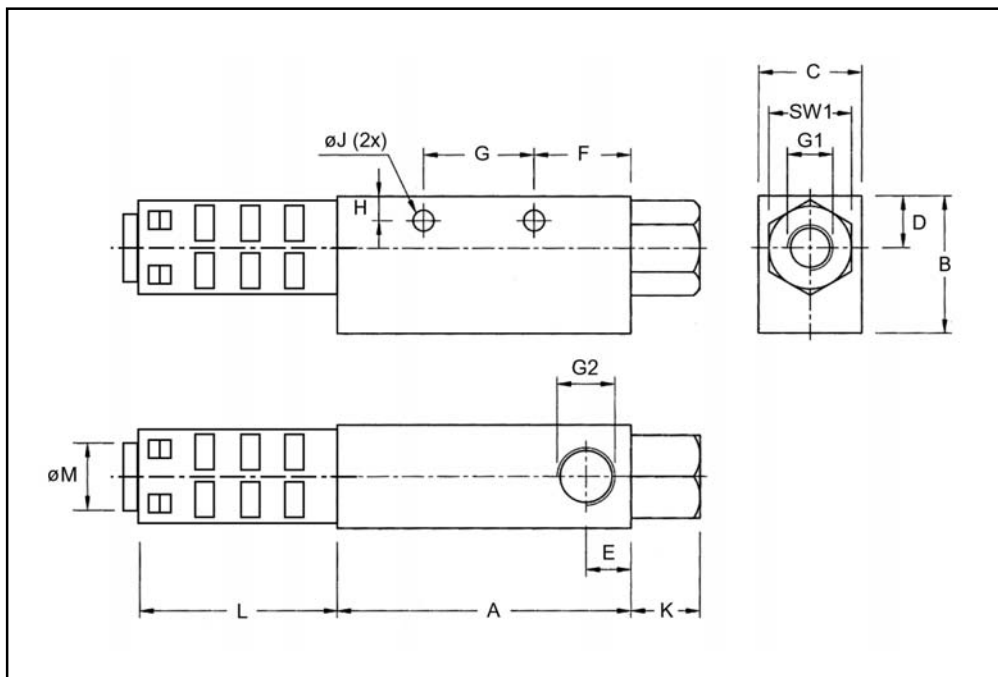
ANVER Item No.	Air Consumption scfm (nl/mn)	Vacuum Flow scfm (nl/mn)	Vacuum Level in Hg (-mm Hg)	Weight oz. (g)
C-CV05HS	0.46 (13)	0.21 (6)	26 (660)	2.8 (79)
C-CV05LS	0.46 (13)	0.40 (11)	17 (432)	2.8 (79)
C-CV10HS	1.55 (44)	0.95 (27)	27 (686)	2.8 (79)
C-CV10LS	1.55 (44)	1.50 (42)	17 (432)	2.8 (79)
C-CV15HS	3.53 (100)	2.22 (63)	27 (686)	4.9 (139)
C-CV15LS	3.53 (100)	3.49 (99)	17 (432)	4.9 (139)
C-CV20HS	6.36 (180)	3.88 (110)	27 (686)	12.3 (349)
C-CV20LS	6.36 (180)	5.38 (150)	17 (432)	12.3 (349)
C-CV25HS	9.36 (265)	5.65 (160)	27 (686)	25.6 (726)
C-CV25LS	9.36 (265)	8.80 (250)	17 (432)	25.6 (726)
C-CV30HS	13.60 (385)	7.90 (225)	27 (686)	29.8 (845)
C-CV30LS	13.60 (385)	12.0 (350)	17 (432)	29.8 (845)

# Vacuum Pumps and Vacuum Generators

## Single Stage Vacuum Pumps Basic Generator



ANVER Item No.	A in. (mm)	B in. (mm)	C in. (mm)	D in. (mm)	E in. (mm)	F in. (mm)	G in. (mm)	H in. (mm)	J in. (mm)	K in. (mm)	L in. (mm)	M in. (mm)	G1	G2
C-CV05HS/LS	1.77 (45)	1.29 (33)	0.63 (16)	0.39 (10)	0.31 (8)	0.55 (14)	0.78 (20)	0.18 (4.5)	0.16 (4.2)	0.39 (10)	1.41 (36)	0.73 (18.5)	G-1/8	G-1/8
C-CV10HS/LS	1.77 (45)	1.29 (33)	0.63 (16)	0.39 (10)	0.31 (8)	0.55 (14)	0.78 (20)	0.18 (4.5)	0.16 (4.2)	0.39 (10)	1.41 (36)	0.73 (18.5)	G-1/8	G-1/8
C-CV15HS/LS	2.48 (63)	1.38 (35)	0.78 (20)	0.43 (11)	0.39 (10)	0.78 (20)	0.98 (25)	0.19 (5)	0.18 (4.5)	0.59 (15)	1.79 (45.5)	0.78 (20)	G-1/4	G-1/4
C-CV20HS/LS	3.34 (85)	1.57 (40)	1.18 (30)	0.59 (15)	0.51 (13)	1.10 (25)	1.26 (32)	0.27 (7)	0.23 (6)	0.78 (20)	2.38 (60.5)	1.18 (30)	G-1/4	G-3/8
C-CV25HS/LS	3.93 (100)	2.36 (60)	1.57 (40)	0.78 (20)	0.63 (16)	0.78 (20)	1.96 (50)	0.21 (5.5)	0.23 (6)	0.67 (17)	3.78 (96)	1.57 (40)	G-3/8	G-1/2
C-CV30HS/LS	4.64 (118)	2.36 (60)	1.57 (40)	0.78 (20)	0.78 (20)	1.29 (33)	1.96 (50)	0.21 (5.5)	0.23 (6)	0.78 (20)	3.78 (96)	1.57 (40)	G-1/2	G-3/4



► This spec sheet was adapted for print from our website. Additional information and photos are available at [www.anver.com](http://www.anver.com). 9030201

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