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TECHNOLOGY GROUP

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Find the *Air-Vac AV116H* at our website: ***Click HERE***

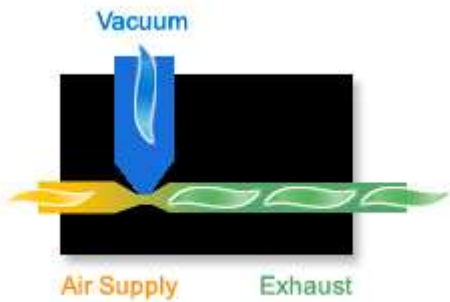
Vacuum Generators: AVR, AV, RAV Series (USA threads)

Quickly and effectively generate vacuum in the following applications:

- **Removing air or gases from process vessels, tanks or other closed systems.**
- **Vacuum handling and positioning of small parts.**
- **Leak testing of various systems.**
- **Used with vacuum cups in pick-and-place equipment.**
- **Labeling, packaging and paper feeding machines**
- **AVR Models available with male or female threads**
- **Optional Mufflers shown below are available for most models**

How AV Series Works

Compressed air flows through a small circular opening to generate a high velocity. This air expands, resulting in decreased pressure to provide vacuum levels up to 27.5"Hg. The vacuum port is perpendicular to the air supply.



Performance Considerations for Minimal Air Usage

Vacuum Levels

Depends on the application, High, Medium, or Low:

- **Select an H Model when maximum vacuum level is required, 25-28"Hg**

AVR Model





S18 Muffler

AV Model





S147AV Muffler

RAV Model



S375 Muffler

Wide Range of Performance:

- **AVR Series:** Vacuum Flow .16 to 1.7 scfm, Vacuum Levels 18 to 27.5"Hg.
- **AV Series:** Vacuum Flow 1.7 to 6.8 scfm, Vacuum Levels 18 to 27.5"Hg.
- **RAV Series:** Vacuum Flow 11.1 to 18.2 scfm, Vacuum Levels 21 to 27.5"Hg.

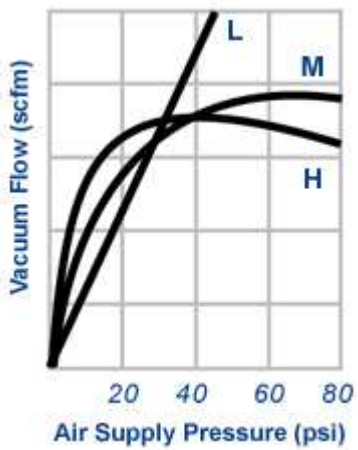
When choosing from the chart below please consider:
"M" Series produce MEDIUM vacuum levels for low air usage
"L" Series produce LOW vacuum levels for lower air usage

When lower vacuum levels satisfy the requirement:
- **Select an M Model for 15-20"Hg**
- **Select an L Model for 8-12"Hg**

This results in a substantial reduction in air usage.

Vacuum Flow

Substantial vacuum flow is developed at low operating pressures when using Models H, M or L.



- **Initially the curves are very steep. The operating pressure at 40-50 psi provides maximum vacuum flow.**

- **Higher pressures do not increase the vacuum flow but will increase air usage.**

Applications

Selecting the minimum vacuum level and lowest operating pressure in the following applications *will minimize air usage:*

- **Leak Testing**
- **Labeling Machines**
- **Paper Feeding Systems**
- **Printing Presses**
- **Vacuum Chucks**
- **Sheet Metal Lifters**
- **Packaging Machinery**
- **Encapsulating**
- **Food Processing Machinery**
- **Air Sampling**
- **Dental Equipment**
- **Gas and Liquid Mixing**
- **Air Cooling**

Model No.	Specifications			Vacuum Flow Rate (scfm) @ Vacuum Levels, "Hg					Time in Seconds to Evacuate 1 Cubic Ft to Vac Levels, "Hg				
	Vac level	Vac flow	Air used	3"	6"	12"	18"	24"	3"	6"	12"	18"	24"
	Hg	scfm	scfm										
"H" version generators produce HIGH vacuum levels. Vacuum Flow Rates to 12.5 scfm.													
AVR038H	27.5	.16	.31	.14	.13	.10	.07	.03	43	98	221	349	720
AVR046H	27.5	.25	.41	.23	.21	.17	.11	.04	26	56	126	227	414
AVR062H	27.5	.42	.82	.38	.33	.25	.15	.05	15	32	75	140	270
AVR093H	27.5	1.0	1.9	.87	.74	.55	.37	.16	6	13	33	65	114
AVR112H	27.5	1.4	2.3	1.26	1.0	.75	.48	.19	4	7.8	21	40	126
AV116H	27.5	1.7	2.7	1.41	1.21	.81	.53	.22	3.1	6.7	19	43	134
AV147H	27.5	2.8	4.3	2.37	1.95	1.39	.91	.36	1.7	4.0	10.4	22	48
AV191H	27.5	4.3	8.1	3.63	3.02	2.33	1.27	.58	1.0	2.4	6.3	14.5	31.5
AV250H	27.5	6.8	11.4	4.4	3.9	2.9	2.0	.70	.80	2	5	9.5	29
RAV328H	27.5	11.1	18.9	10.2	9.1	7.0	5.3	2.2	.6	1.2	2.9	5.9	14.5
RAV375H	27.5	12.5	26.5	11.8	11.1	8.8	6.0	2.4	.4	.9	2.0	5.0	11.5
"M" version generators produce MEDIUM vacuum levels. Vacuum Flow Rates to 18.2 scfm, ***but with substantially lower rates of air consumption than the "H" versions.***													
AVR062M	20.0	.53	.54	.49	.44	.30	.06	-	11	25	61	137	-
AVR093M	18.0	1.23	1.0	1.10	.92	.46	-	-	3.9	8.9	28.8	-	-
AVR112M	18.0	1.7	1.4	1.5	1.29	.85	-	-	3.0	6.8	21	-	-
AV147M	18.0	3.1	2.7	2.73	2.34	1.31	-	-	1.5	3.7	10.3	-	-
AV191M	18.0	5.2	4.3	4.10	3.31	2.08	-	-	.7	2.0	5.5	-	-
AV250M	21.0	5.6	6.9	5.28	5	3.8	-	-	.50	1.7	4.6	-	-

> Download Specs PDF file

3D CAD Models

> AVR Step
> AVR IGS
> AVR PDF

> AV Step
> AV IGS
> AV PDF

> RAV328 Step
> RAV328 IGS
> RAV328 PDF

> RAV375 Step
> RAV375 IGS
> RAV375 PDF

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