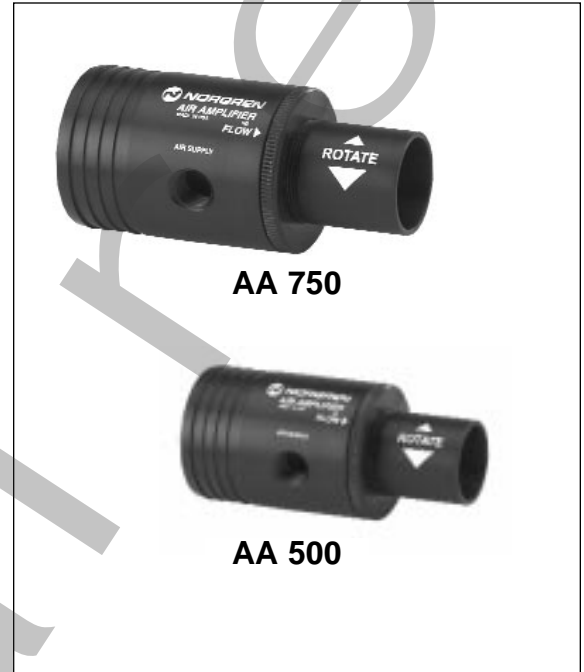


# AA Series Vacuum Pumps

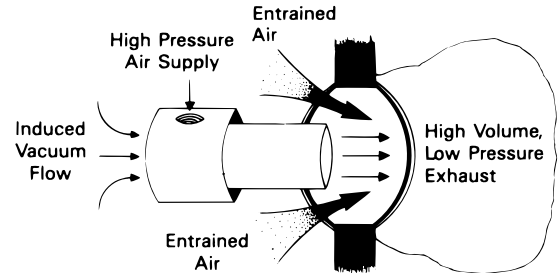
## For Air Amplification

- High, 40:1 amplification ratios.
- Can be used for applications requiring extremely high levels of vacuum flow to rapidly evacuate large areas.
- The unique design of the AA pump makes it an efficient and cost effective alternative to electric blowers or large volumes of raw compressed air.
- 7 standard models are available with bores of 1/8" to 2".
- Air velocity and flow of all models are field adjustable to provide a wide range of conditions to meet individual application requirements.



### Principles of Operation

AA pumps operate on the "Coanda Effect" where a small volume of compressed air is converted into a large flow of ambient air. Compressed air is emitted from an annular gap and passes over a curved surface into the throat of the unit. As the air passes over this curved surface, similar to an air foil, a low pressure area is created inducing ambient air to flow into the throat with the compressed air.



### Performance Data

Model No.	I.D. inches	**Input scfm	Output scfm	Velocity ft/sec
AA 100*	0.13 (3)	3	12	2347
		2	8	1565
		1	6	1173
AA 200*	0.25 (6)	3	18	860
		2	14	685
		1	10	490
AA 500H†	0.50 (13)	9	75	910
		5	42	530
		3	22	265
AA 750H†	0.75 (19)	9	110	565
		5	70	420
		3	40	195
AA 1000H†	1.0 (25)	9	145	435
		5	95	290
		3	57	174
AA 1500H	1.50 (38)	9	240	314
		5	150	198
		3	86	123
AA 2000H	2.0 (51)	9	350	269
		5	220	168
		3	140	106

Jam nut used to secure adjustment

\* 1/4" NPT male exhaust available

\*\* Data is at 80 PSI

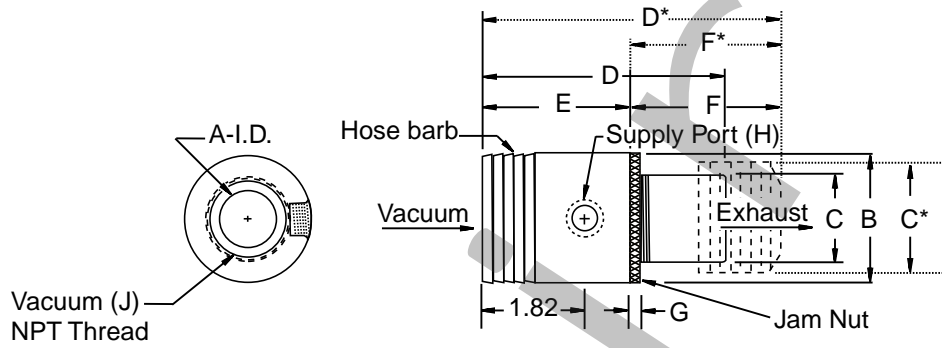
† See page 29 for optional threaded exhaust attachments

### Typical Applications

Blow drying, fume evacuation, cooling and improved utilization of compressed air.



AA Series



Optional Threaded Exhaust Attachments for Models AA 500H, 750H 1000				
Threaded Exhaust Part No.	Model†	C*	D*	F*
NT 100	AA 500H	1" NPT	4.63 (118)	2.00 (51)
NT 107	AA 750H	1" NPT	5.13 (130)	2.50 (64)
NT 125	AA 1000H	1-1/2" NPT	4.63 (130)	2.00 (51)

Model	Dimensions								
	I.D. A	B	C	D	E	F	G	(NPTF) H	(NPTF) J
AA 100	0.13 (3)	1.25 (32)	0.56 (14)	2.0 (51)	1.0 (25)	0.75 (19)	0.13 (3)	1/8	—
AA 200	0.25 (6)	1.25 (32)	0.56 (14)	2.0 (51)	1.0 (25)	0.75 (19)	0.13 (3)	1/8	—
AA 500H†	0.50 (13)	1.50 (38)	1.0 (25)	4.13 (105)	2.63 (67)	1.50 (38)	0.2 (5)	1/4	1/2
AA 750H†	0.75 (19)	2.0 (51)	1.25 (32)	4.13 (105)	2.63 (67)	1.50 (38)	0.2 (5)	1/4	1
AA 1000H†	1.0 (25)	2.25 (57)	1.50 (38)	4.13 (105)	2.63 (67)	1.50 (38)	0.2 (5)	1/4	1-1/4
AA 1500H	1.50 (38)	2.75 (70)	2.0 (51)	4.13 (105)	2.63 (67)	1.50 (38)	0.2 (5)	3/8	2
AA 2000H	2.0 (51)	3.25 (83)	2.50 (64)	4.13 (105)	2.63 (67)	1.50 (38)	0.2 (5)	3/8	2-1/2

Jam nut is used to secure adjustment

† See above chart for optional threaded attachment.