

CDF SERIES ~not your average vacuum cup

When a conventional cup won't work, the CDF Series vacuum pump will. Ideal for porous items such as foam, fabric, circuit boards or when objects are not the same size or shape.

CDF - VACUUM CUP

Using the same principle and characteristics, (high vacuum and exhaust flow) the CDF air amplifier can act as a vacuum cup simply by using the vacuum inlet in place of a cup. The CDF vacuum pump generates a high vacuum flow enabling it to overcome the leaks inherent in trying to pick up porous objects. Seven 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 needs.

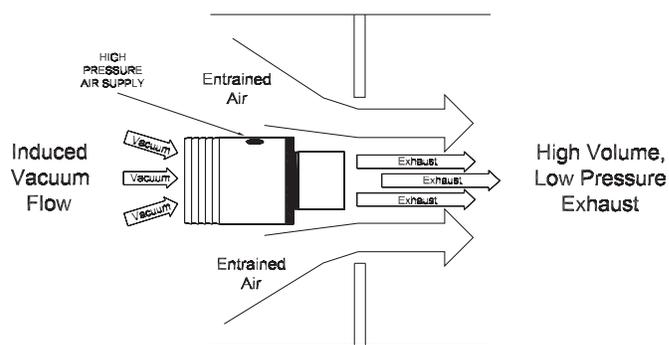
CDF - AIR AMPLIFIER

The CDF Series vacuum pump was initially designed to function as an air amplifier generating a high vacuum flow and a high exhaust flow using a small amount of compressed air. CDF's are ideal for applications that require high levels of flow such as the rapid evacuation of fumes, blow drying wet materials, or to cool hot areas and/or materials.



Principles of Operation:

CDF 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 pump. 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.

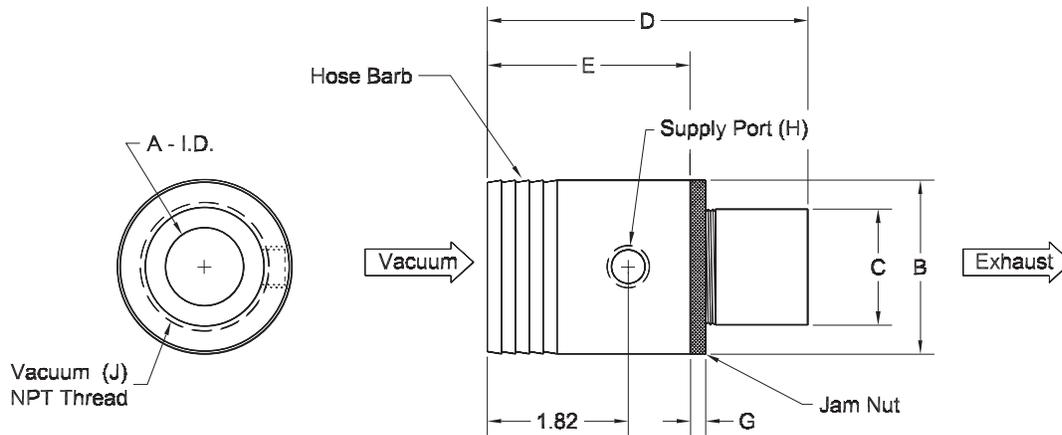


HOW TO ORDER:

Applications and materials vary, please consult factory for proper sizing.

CDF SERIES PERFORMANCE DATA				
Model No.	I.D. (inches)	Input SCFM**	Output SCFM	Velocity Ft./Sec.
CDF 100*	0.125	3	12	2347
		2	8	1565
		1	6	1173
CDF 200*	0.250	3	18	860
		2	14	685
		1	10	490
CDF 500H	0.500	9	75	910
		5	42	530
		3	22	265
CDF 750H	0.750	9	110	565
		5	70	420
		3	40	195
CDF 1000H	1.500	9	145	435
		5	95	290
		3	57	174
CDF 1500H	1.500	9	240	314
		5	150	198
		3	86	123
CDF 2000H	2.000	9	350	269
		5	220	168
		3	140	106

Jam nuts used to secure adjustment. *1/4" NPT male exhaust available. **Data is at 80PSI.
Contact factory for optional threaded exhausts and recommended silencers.



DIMENSIONS (Inches)									
Model	I.D.	C	D	E	F	G	H	(NPTF)	(NPTF)
A	B							J	
CDF 100	0.125	1.25	0.5625	2.000	1.000	0.75	.13	.125	-
CDF 200	0.250	1.25	0.5625	2.000	1.000	0.75	.13	.125	-
DCF 500H	0.500	1.50	1.0000	4.125	2.625	1.50	.20	.250	0.50
CDF 750H	0.750	2.00	1.2500	4.125	2.625	1.50	.20	.250	1.00
CDF 1000H	1.000	2.25	1.5000	4.125	2.625	1.50	.20	.250	1.25
CDF 1500H	1.500	2.75	2.0000	4.125	2.625	1.50	.20	.375	2.00
CDF 2000H	2.000	3.25	2.5000	4.125	2.625	1.50	.20	.375	2.50