

MINI DIA-VAC® DIAPHRAGM SAMPLING PUMPS

SINGLE AND DOUBLE
STAGE DIAPHRAGM
PUMPS AND
COMPRESSORS



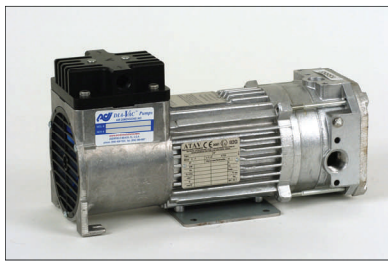
Meet ADI's Mini Dia-Vac®, the workhorse pump in our stable. The Mini Dia-Vac® pumps are completely self contained and may be used for either built in or portable applications. They are designed as a combination vacuum/pressure pump so you can mount the Mini Dia-Vac® in mid-stream and push or pull air to either end of your system. The Mini Dia-Vac® pumps are ideal for use in laboratories, industrial plants, process control, environmental and remote sampling as well as an ideal choice for OEM customers requiring customized gaseous vacuum/pressure sampling applications.

With the special capacitor run feature and oversized fan, the durable Mini Dia-Vac® is designed to provide you with cooler operating temperatures than many other pumps of its size on the market. You can count on the Mini Dia-Vac® for continuous operation, even under load conditions. This pump has heavy duty bearings and built in overload protection in the motor. The Mini Dia-Vac® is also available with ATEX certified EExd IIC,T4,IP65 as well as Air Driven motors for explosion proof and non-spark applications. The Mini Dia-Vac® general purpose motors are UL and CUL recognized and CE approved.

Choose either the single or dual stage design to meet your specific requirements...and let our Mini Dia-Vac® pump start to pass your gas!

Some of the outstanding quality features of the Mini Dia-Vac® include:

- CE approved
- Complete field serviceability
- Continuous operation
- General Purpose, UL Div. 2, ATEX certified and Air Driven motor options
- Corrosion resistant and heated head options
- Wetted parts made of chemically inert material to system performance requirements
- Capacitor-run feature
- Oversized fan to keep motor cool
- Oversized bearings and motor shaft
- Exceptionally quiet at all pressures
- Low maintenance with minimal vibration
- No risk of damage even when inlet or outlet becomes blocked
- Will customize the Mini Dia-Vac® to your specific application



M161-BT-GB2

Single Head Mini Dia-Vac® with ATEX Certified Motor



M162-GT-AA1

Double Head Teflon® coated 316 Stainless Steel Mini Dia-Vac®



M161-BT-AA1

Single Head Teflon® coated Aluminum Mini Dia-Vac®

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"We Pass Your Gas"

Specifications:

Connecting Rod Material	Aluminum	Weight	8lbs. Single, Aluminum 9lbs. Double Aluminum
Motor	1/15 HP, permanent split with 5 UF capacitor	Port Connections	1/4 NPT
Ambient Temperature	40° C	Electrical	115V, 50/60HZ 1.7 amps 230V, 50/60HZ 0.8 amps

Mini Dia-Vac® Performance

ADI's Dia-Vac® Pumps can Pass Your Gas at the Speed of Need! Due to an increased interest in reducing the pressure, vacuum, and/or flow on the Dia-Vac® pumps, our engineers designed a modified eccentric. This allows you to customize your Dia-Vac® pump to meet your application requirements while at the same time increasing the diaphragm and bearing life. The standard eccentric size is .160 on the Mini Dia-Vac® pumps.

Flow Average Mini Dia-Vac®

Eccentric Size	PSIG	bar	InHg	mbar	CFM	LPM
.080	6.0	0.41	7.0	237	.44	12.5
.100	17.0	1.17	17.0	575	.47	13.5
.120	21.0	1.43	18.0	600	.64	18
.150	27.0	1.86	20.0	676	.72	20.0
.160 (std)	30.0	2.07	22.0	745	.78	22.0
.160 (dbl.)	33.0	2.27	27.0	913	1.28	36.2

- Test Results are approximate.
- Tests performed with 316 stainless steel head, Teflon®/EPDM diaphragm, 3/8 in. diameter hose x 5 ft. line at 75°F, using a std. 1725 rpm motor at 60Hz.
- These test results are for reference only, and are intended to help provide information to the user when determining which pump to buy. Actual pump performance will depend upon the users application.
- Please visit the ADI website at : www.airdimensions.com for complete performance curves.

How to Specify and Order Pumps from Air Dimensions Incorporated

CAPACITY		WETTED MATERIALS		POWER			OPTIONAL
STYLE	ECC. HEADS	HEAD	DIAPHRAGM	TYPE	VOLTS	Hz	OPTIONS
M=Mini	16 1	A=Alum	E=Encapsulated*	A=Gen. Purpose	A=115	0=N/A	L=Elevated Head
	15 2	B=Alum (TefCo)	F=Tef / Viton	D=Air Driven	B=230	1=60 1Ph	M=Heated w/K Thermocouple
	14	F=316ss	N=EPDM	G=XP/ATEX/IIC	X=N/A	2=50 1Ph	M2=Heated 65° Thermostat
	12	G=316ss (TefCo)	P=All Teflon	W=XP Div.2			M3=Heated 100° Thermostat
	10	H=Hastelloy C	T=Tef / EPDM				M4=Heated 140° Thermostat
	08	J=Hast. C (TefCo)	V=Viton				M5=Heated 163° Thermostat
		L=Sulfinert®316ss					M6=Heated 200° Thermostat
		T=Solid Teflon					

*Teflon head only

Example:

M161-FT-AA1 = Single Head Mini Dia-Vac® pump, 316 ss wetted parts, Teflon®/EPDM diaphragm, 115v/60Hz motor

**Note that ADI will always attempt to accommodate any custom application that you may have.
Please contact the factory for more information.**

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"We Pass Your Gas"

