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# Terms and Conditions (U.S. and Canada Only)

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### Vacuums for lifting, clamping, mounting and placement!

#### What Is The E-Vac?

EXAIR's compressed air powered E-Vac single stage vacuum generators are the low cost way to create a vacuum for:

- Pick and place Clamping Lifting
- Chucking Alignment
- Surface mounting

E-Vac compressed air powered vacuum pumps provide instantaneous response and are most commonly used for pick and place operations. They are available in a variety of sizes and flows for a wide range of applications.

#### Why The E-Vac?

The E-Vac vacuum generators have been engineered for high efficiency to minimize air consumption. These single stage, all aluminum units provide consistent, steady vacuum, unlike mechanical vacuum pumps. Dust and small particulates easily pass through the vacuum generator and they have no moving parts, making them maintenance free.

EXAIR's E-Vac Vacuum Generator is available in 3 styles:

#### In-Line E-Vac Vacuum Generator

These single stage, cylindrical units are compact and easy to mount at the point of use. They can be held in place by threading them directly onto a compressed air line or with the use of a mounting clip. There are 7 models available for use with porous materials like cardboard, with vacuum levels up to 21" Hg (71 kPa) and vacuum flows up to 18.5 SCFM (524 SLPM). There are 7 models available for use with non-porous materials such as glass with vacuum levels up to 27" Hg (91 kPa) with vacuum flows up to 15.8 SCFM (447 SLPM).

#### Modular E-Vac Vacuum Generator

These units perform exactly the same as the In-Line Vacuum Generators, but are of a block design and incorporate a series of holes for convenient mounting.

#### Adjustable E-Vac Vacuum Generator

This series of vacuum generators permits easy adjustment by simply loosening the locknut and turning the exhaust to increase or decrease the level of vacuum and vacuum flow. This style is also an excellent choice where large particulates may be present and passed through the vacuum system. There are 4 models with adjustable vacuum up to 25" Hg (85 kPa) and vacuum flow up to 81 SCFM (2,294 SLPM).

#### Applications

- Pick and place parts and equipment
- Bag/package opening
- Label placement
- Vacuum forming
- Mold evacuation
- Vacuum filling
- Leak testing
- Evacuate containers

- Clamping and chucking
- Paper alignment and feed in printing equipment
- Vacuum packaging
- Surface mounting
- Vacuum press for wood veneers and laminates
- Carton forming
- Robotic tooling
- Vacuum liquids for testing

#### Advantages

- Compact, portable
- Single stage design eliminates fluctuations in vacuum
- Ouiet
- Instantaneous vacuum
- Easy to mount at point of use
- Lightweight, rugged

- No moving parts no maintenance
- 32 models
- Fast response increases cycle time
- Durable 6061 aluminum construction
- Safe operation no electricity

Watch the video! www.exair.com/evacvideo.htm

E-Vac In-Line E-Vac



Modular E-Vac



Adjustable E-Vac

Order Direct













#### How to Build An E-Vac System:

#### 1. Select the E-Vac type.

- A. Determine if the part to be lifted is porous or non-porous (page 101 and 102).
- B. Select a style In-Line, Modular or Adjustable (pages 102 and 103).
- The E-Vac type determines max. vacuum available for lifting the part and vacuum cup selection.

Porous	low vacuum generators max. vacuum = 21" Hg (71 kPa)
Non-porous	high vacuum generators max. vacuum = 27" Hg (91 kPa)
Adjustable E-Vac	vacuum generators max, vacuum = 25" Hg (85 kPa)

Need Help Selecting the Correct E-Vac? Our Application Engineers can assist you in determining the correct model E-Vac and vacuum cups (if required). Call 1-800-903-9247.

#### 2. Determine the weight of the part.

3. Multiply the weight by the vacuum cup safety factor (see page 107) for the total vacuum cup capacity needed.

#### 4. Determine the number of vacuum cups needed by considering the following:

- A. How many cups are needed to distribute the weight for stable lifting and placement?
- B. What is the weight that each vacuum cup can lift based on maximum vacuum available (E-Vac type)?
- C. Select vacuum cups from chart on page 107 based on max. vacuum available (E-Vac type) and holding weight/cup.

#### 5. To choose an E-Vac model number, consider the entire vacuum system from the E-Vac to the part.

- A. Number of vacuum cups per E-Vac
- B. Length and size of vacuum tubing
- C. Vacuum cup size and type
- The volume of air to evacuate from your vacuum system and the vacuum flow of the E-Vac you've selected (pages 101, 102, and 106) will determine the time it takes from E-Vac activation to vacuum cup holding the part. As the vacuum level in the system increases, the volume of evacuating air decreases.
- A lower volume of air in the vacuum system and/or a higher capacity (SCFM/SLPM) E-Vac will give faster pick-up times.
- · An exact pick-up time cannot be calculated.
- If the E-Vac vacuum generator doesn't meet your needs, return it for a different model, with no restocking charge.

#### Here is an example using the steps outlined above:

A sheet of material measures 3' x 3' (.91m x .91m) and weighs 25lbs (11.3kg). Each sheet is in a stack and will be placed on a conveyor.

#### If it is porous like wood and positioned vertically: If it is non-porous like glass and positioned horizontally:

- Choose a porous, low vacuum E-Vac. In this case the Modular style will be used for easy mounting. The maximum vacuum is 21" Hg (71 kPa).
- 2. The weight is 25 lbs (11.3kg).
- Since the part is picked-up and hung on an overhead conveyor vertically, the safety factor is 4. The vacuum cup capacity needed is 4 x 25 = 100 lbs (45.4kg).
- 4. Four vacuum cups will be used for stability when lifting the sheet. Each cup will need at least a 25 lb (11.3kg) capacity. In the table on page 107, at 21"Hg (71 kPa), the Model 900755 Vacuum Cup will hold up to 25.3 lbs (11.5kg).
- 5. There are 4 small round vacuum cups that are positioned close to one another. The vacuum system has a small to medium volume and pick-up and release time is not critical. To reduce the sound level, use the straight through muffler.

Order:

(1) Model 820008M Modular E-Vac(4) Model 900755 Vacuum Cups

- 1. Choose a non-porous, high vacuum E-Vac. In this case the
- Modular style will be used for easy mounting. The maximum vacuum is 27" Hg (91 kPa).
- 2. The weight is 25 lbs (11.3kg).
- Since the part is picked-up and placed on a belt conveyor horizontally, the safety factor is 2. The vacuum cup capacity needed is 2 x 25 = 50 lbs (22.7kg).
- 4. Four vacuum cups will be used for stability when lifting the sheet. Each cup will need at least a 12.5 lb (5.7kg) capacity. In the table on page 107, at 27" Hg (91 kPa), the Model 900754 Vacuum Cup will hold up to 20.8 lbs (9.4kg).
- 5. There are 4 small round vacuum cups that are positioned close to one another. The vacuum system has a small to medium volume and pick-up and release time is not critical. To reduce the sound level, use the straight through muffler.

Order: (1) Model 830006M Modular E-Vac (4) Model 900754 Vacuum Cups

The Model 840008M Adjustable E-Vac can be substituted for picking up the wood or the glass since the vacuum level and vacuum flow is easily adjusted to suit the porous or non-porous application. The Adjustable E-Vac is especially useful for loads that vary.





### E-Vac® Vacuum Generators

#### Low Vacuum Generators For Porous Applications

Low vacuum units up to 21" Hg (71 kPa) with vacuum flows up to 18.5 SCFM (524 SLPM) are typically used for porous materials such as cardboard and delicate materials. The low level vacuum prevents any warping, marring, dimpling or disfiguring of the surface due to excessive vacuum. This style generates more vacuum flow to overcome porosity and leakage. There are 7 models in each style (In-Line and Modular) that vary by flow and vacuum level.

Choose the E-Vac by the SCFM (SLPM) flow that best suits the performance needed for your application (see Performance table below).

**E-Vac Kits** give you the ability to experiment with an assortment of vacuum cups. Kits include a muffler, an assortment of (4) pairs of vacuum cups (closely matched to the performance of that E-Vac), (2) straight, (2) elbow and (1) tee vacuum fittings, 10' of vacuum tubing and a mounting clip.

E-Vac Deluxe Kits include the same items as the standard kit with the addition of an automatic drain filter separator for the compressed air supply and pressure regulator (with coupler).



In-Line E-Vac Vacuum Generators for porous applications.





Create your own vacuum system!

Modular E-Vac with Straight Through Muffler, push-in connectors, vacuum tubing and a round vacuum cup (shown).

Modular E-Vac Vacuum Generators for porous applications.

In-Line and Modular E-Vac Low Vacuum Generators For Porous Applications	Model 1.5 SCFM 43 SLPM	Model 2.1 SCFM 60 SLPM	Model 3.1 SCFM 88 SLPM	Model 5.4 SCFM 153 SLPM	Model 8.4 SCFM 238 SLPM	Model 12.6 SCFM 357 SLPM	Model 16.8 SCFM 476 SLPM	8
In-Line E-Vac Only	800001	800002	800003	800005	800008	800013	800017	acut
In-Line E-Vac with Straight Through Muffler	800001M	800002M	800003M	800005M	800008M	800013M	800017M	2
In-Line E-Vac Kit with Straight Through Muffler	801001M	801002M	801003M	801005M	801008M	801013M	801017M	
In-Line E-Vac Deluxe Kit with Straight Through Muffler	802001M	802002M	802003M	802005M	802008M	802013M	802017M	
Modular E-Vac Only	820001	820002	820003	820005	820008	820013	820017	
Modular E-Vac with Straight Through Muffler	820001M	820002M	820003M	820005M	820008M	820013M	820017M	
Modular E-Vac Kit with Straight Through Muffler	821001M	821002M	821003M	821005M	821008M	821013M	821017M	
Modular E-Vac Deluxe Kit with Straight Through Muffler	822001M	822002M	822003M	822005M	822008M	822013M	822017M	

Note: Replace 'M' with 'H' for Standard Muffler

	In-Line and Modular E-Vac Low Vacuum Generator Performance (Porous)																							
In-Line	Modular	Air Cons	umption	Sou	ind Level in	dBA				Vacu	um F	low (	SCFI	∕/SLF	PM) v	rs. Va	cuun	1 Lev	el ("H	lg/ kF	Pa)			
E-Vac Model	E-Vac Model	E-Vac Model SLPM @ 80 PSIG SLPM @ 5.5 BAR		No Muffler	Standard Muffler	Straight Through Muffler	0		3/10		6/20		9/31		12/41		15	/51	18/61		21	/71	Max Vac	
800001	820001	1.5	42.5	80	72	60	1.52	43.0	1.41	39.9	1.25	35.4	1.10	31.1	0.95	26.9	0.85	24.1	0.56	15.9	0.00	0.0	21	71
800002	820002	2.1	59.5	80	72	63	2.22	62.9	2.05	58.0	1.91	54.1	1.77	50.1	1.45	41.1	0.95	26.9	0.56	15.9	0.00	0.0	21	71
800003	820003	3.1	87.8	89	74	70	3.75	106.2	3.52	99.7	3.15	89.2	2.75	77.9	2.15	60.9	1.20	34.0	0.56	15.9	0.00	0.0	21	71
800005	820005	5.4	152.9	92	83	66	5.59	158.3	5.23	148.1	4.51	127.7	3.75	106.2	3.34	94.6	2.51	71.1	1.25	35.4	0.00	0.0	21	71
800008	820008	8.4	237.9	97	88	74	7.70	218.0	6.95	196.8	6.30	178.4	5.30	150.1	4.23	119.8	3.15	89.2	1.31	37.1	0.00	0.0	21	71
800013	820013	12.6	356.8	99	91	78	15.50	438.9	14.50	410.6	13.15	372.4	11.35	321.4	8.70	246.3	4.03	114.1	0.00	0.0	0.00	0.0	18	61
800017	820017	16.8	475.7	101	91	81	18.50	523.8	17.20	487.0	14.70	416.2	12.40	351.1	9.80	277.5	5.00	141.6	0.00	0.0	0.00	0.0	18	61





#### **High Vacuum Generators For Non-Porous Applications**

High vacuum units up to 27" Hg (91 kPa) with vacuum flows up to 15.8 SCFM (447 SLPM) are typically used for non-porous materials such as glass, steel sheet, and plastic. There are 7 models in each style (In-Line and Modular) that vary by flow and vacuum level.

Choose the E-Vac by the SCFM (SLPM) flow that best suits the performance needed for your application (see Performance table below).

**E-Vac Kits** give you the ability to experiment with an assortment of vacuum cups. Kits include a muffler, an assortment of (4) pairs of vacuum cups (closely matched to the performance of that E-Vac), (2) straight, (2) elbow and (1) tee vacuum fittings, 10' of vacuum tubing and a mounting clip.

E-Vac Deluxe Kits include the same items as the standard kit with the addition of an automatic drain filter separator for the compressed air supply and pressure regulator (with coupler).



The In-Line E-Vac with Standard Muffler (shown above) is also available with your choice of accessories that can be found on page 110.



In-Line E-Vac Vacuum Generators for non-porous applications.



Modular E-Vac Vacuum Generators for non-porous applications.

In-Line and Modular E-Vac High-Vacuum Generators For Non-Porous Applications	Model 2.3 SCFM 65 SLPM	Model 3.3 SCFM 93 SLPM	Model 6.2 SCFM 176 SLPM	Model 8.4 SCFM 238 SLPM	Model 13.2 SCFM 374 SLPM	Model 23.1 SCFM 654 SLPM	Model 30.8 SCFM 872 SLPM
In-Line E-Vac Only	810002	810003	810006	810008	810013	810023	810031
In-Line E-Vac with Straight Through Muffler	810002M	810003M	810006M	810008M	810013M	810023M	810031M
In-Line E-Vac Kit with Straight Through Muffler	811002M	811003M	811006M	811008M	811013M	811023M	811031M
In-Line E-Vac Deluxe Kit with Straight Through Muffler	812002M	812003M	812006M	812008M	812013M	812023M	812031M
Modular E-Vac Only	830002	830003	830006	830008	830013	830023	830031
Modular E-Vac with Straight Through Muffler	830002M	830003M	830006M	830008M	830013M	830023M	830031M
Modular E-Vac Kit with Straight Through Muffler	831002M	831003M	831006M	831008M	831013M	831023M	831031M
Modular E-Vac Deluxe Kit with Straight Through Muffler	832002M	832003M	832006M	832008M	832013M	832023M	832031M

Note: Replace 'M' with 'H' for Standard Muffler

																											_	
			In	ular E-V	ac H	igh ۱	Vacı	ıum	Gen	erat	tor P	erfo	rma	ince	(No	n-Po	orou	s)										
In-l ine	Modular	A	lir .	Sou	nd Level i	n dBA					Vac	uum	Flov	v (SC	FM/S	SLPM	) vs.	Vacu	ıum	Leve	I ("H	g/ kP	a)					
E-Vac Model	E-Vac Model	Consu SCFM @ SLPM @	80 PSIG 5.5 BAR	No Muffler	Standard Muffler	Straight Through Muffler	(	)	3/	10	6/:	20	9/	31	12	/41	15	/51	18	/61	21	71	24	/81	27/	91	Ma Va	c
810002	830002	2.3	65.1	86	81	70	1.22	34.5	1.16	33.0	1.00	28.3	0.90	25.5	0.87	24.6	0.74	21.0	0.56	16.0	0.46	13.0	0.20	5.7	0.0	0.0	27 9	91
810003	830003	3.3	93.4	87	82	73	1.73	49.0	1.59	45.0	1.48	41.9	1.24	35.1	1.09	30.9	1.02	28.9	0.78	22.1	0.67	19.0	0.49	13.9	0.0	0.0	27 9	91
810006	830006	6.2	175.6	91	82	77	2.75	78.0	2.65	75.0	2.26	64.0	2.05	58.0	1.87	53.0	1.59	45.0	1.13	32.0	0.92	26.0	0.77	21.7	0.0	0.0	27 9	Ð1
810008	830008	8.4	237.9	97	90	78	4.40	124.6	4.10	116.1	3.75	106.2	3.15	89.2	2.75	77.9	2.39	67.7	1.75	49.6	1.27	36.0	0.99	28.0	0.0	0.0	27 9	<b>ə</b> 1
810013	830013	13.2	373.8	100	92	83	6.85	194.0	6.50	184.1	5.81	164.5	4.89	138.5	4.12	116.7	3.51	99.4	2.61	73.9	1.92	54.4	1.31	37.1	0.0	0.0	27 9	Ð1
810023	830023	23.1	654.1	102	92	84	11.95	338.4	11.80	334.1	10.45	295.9	9.02	255.4	8.10	229.4	6.52	184.6	4.54	128.6	3.65	103.4	2.67	75.6	0.0	0.0	27 9	<b>ə</b> 1
810031	830031	30.8	872.1	105	92	87	15.75	446.0	15.25	431.8	12.67	358.8	11.12	314.9	10.25	290.2	7.97	225.7	5.98	169.3	5.04	142.7	3.41	96.6	0.0	0.0	27 9	91





#### In-line and Modular E-Vacs

EXAIR manufactures two versions of the In-Line and Modular E-Vacs - Low Vacuum and High Vacuum. The application will dictate which type of vacuum is most suitable. The dimensions and performance for each model are shown.



Compressed air flows through the inlet (1), then through a single directed nozzle (2). As the airstream exhausts, it expands and increases in velocity prior to passing through the venturi (3). A vacuum inlet tangential to the primary airflow (4) is located at the suction point between the orifice and the venturi. The airflow that is drawn through the vacuum inlet mixes with the primary airstream, then exhausts on the opposite end (5).

Need Help Selecting the Correct E-Vac? Not sure how much vacuum is required for your application? Our Application Engineers can assist you in determining the correct model E-Vac and vacuum cups (if required), Call 1-800-903-9247.



#### **In-Line E-Vac Dimensions**





In-Line Vacuum Generator Dimensions														
Model Air Vacuum C D E F G H J K														
800001, 800002, 800003, 810002,	1/8 NPT	1/8 NPT	in	N/A	N/A	3.00	0.88	0.75	1/4 NPT	N/A	N/A			
810003, 810006	1/01111	1/01111	mm	N/A	N/A	76	22	19	.,	N/A	N/A			
800001H, 800002H, 800003H, 810002H,	1/9 NDT	1 /9 NIDT	in	N/A	5.00	3.00	0.88	0.75	1/4 NDT	N/A	0.81			
810003H, 810006H	1/0111	1/0111	mm	N/A	127	76	22	19	1/4 INF I	N/A	21			
800001M, 800002M, 800003M, 810002M,	1 /0 NIDT	1 (0 NIDT	in	5.25	N/A	3.00	0.88	0.75		1/4 NPS	0.75			
810003M, 810006M	1/6 NP1	1/6 NP1	mm	133	N/A	76	22	19	1/4 INP1	1/4 NPS	19			
800005 800008 810008 810013	1/4 NDT	2 /9 NIDT	in	N/A	N/A	4.50	1.50	1.00	2 /9 NDT	N/A	N/A			
800005, 800008, 810008, 810015	1/4 NP1	5/6 INP I	mm	N/A	N/A	114	38	25	5/6 INP I	N/A	N/A			
80000EH 800008H 810008H 810012H	1/4 NDT	2/9 NIDT	in	N/A	7.50	4.50	1.50	1.00	2/9 NDT	N/A	1.25			
800005H, 800008H, 810008H, 810015H	1/4 INP1	5/6 INP I	mm	N/A	191	114	38	25	5/6 INP I	N/A	32			
80000EM 800008M 810008M 810012M	1/4 NDT	2/9 NIDT	in	7.75	N/A	4.50	1.50	1.00	2 /9 NDT	3/8 NPS	1.00			
800003W, 800008W, 810008W, 810013W	1/4 INF 1	3/0 INF I	mm	197	N/A	114	38	25	3/0 INF I	3/8 NPS	25			
800012 800017 810022 810021		1/2 NOT	in	N/A	N/A	6.00	1.88	1.25		N/A	N/A			
800013, 800017, 810023, 810031	1/2 NP1	1/2 INP1	mm	N/A	N/A	152	48	32	1/2 NP1	N/A	N/A			
8000120 8000170 8100220 8100210	1/2 NDT	1/2 NDT	in	N/A	9.00	6.00	1.88	1.25	1/2 NDT	N/A	1.25			
000013H, 000017H, 810023H, 810031H	1/2 NPT	1/2 NPT	mm	N/A	229	152	48	32	1/2 NP1	N/A	32			
800012M 800017M 810032M 810031M	1/2 NDT	1/2 NDT	in	10.25	N/A	6.00	1.88	1.25	1/2 NDT	1/2 NPS	1.25			
000013W, 000017W, 010023W, 010031W	1/2 INP I	1/2 NP1	mm	260	NI/A	150	40	27	1/2 NP1	1/2 NDC	22			



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N/A

152

48

32

mm 260



### E-Vac® Vacuum Generators



The Modular E-Vac, connected to a series of vacuum cups, lifts sheets of wood to a surface planer.

#### Need Help Selecting the Correct E-Vac?

Not sure how much vacuum is required for your application? Our Application Engineers can assist you in determining the correct model E-Vac and vacuum cups (if required). Call 1-800-903-9247.



						M	lodula	ar Vac	uum	Generato	r Dimensio	ons						
Model	Air Inlet A	Vacuum Inlet B		с	D	E	F	G	н	Exhaust Port J	Exhaust Port K	L	м	N	Р	Q	R	s
820001 820002			in	N/A	N/A	3.00	0.88	N/A	0.75				0.11	0.52	0.75	N/A	1.78	N/A
820003 830002 830003 830006	1/8 NPT	1/8 NPT	mm	N/A	N/A	76	22	N/A	19	1/4 NPT	N/A	For #8 or M4 Screw or Smaller	3	13	19	N/A	45	N/A
820001H 820002H			in	N/A	5.00	3.00	0.88	N/A	0.75				0.11	0.52	0.75	N/A	1.78	0.81
820003H 830002H 830003H 830006H	1/8 NPT	1/8 NPT	mm	N/A	127	76	22	N/A	19	1/4 NPT	N/A	For #8 or M4 Screw or Smaller	3	13	19	N/A	45	21
820001M 820002M			in	5.25	N/A	3.00	0.88	N/A	0.75				0.11	0.52	0.75	N/A	1.78	0.75
820003M 830002M 830003M 830006M	1/8 NPT	1/8 NPT	mm	133	N/A	76	22	N/A	19	1/4 NPT	1/4 NPS	For #8 or M4 Screw or Smaller	3	13	19	N/A	45	19
820005 820008	1/4 NPT	3/8 NPT	in	N/A	N/A	4.50	1.50	1.50	1.50	3/8 NPT	N/A	For #10 or M5 Screw	0.20	1.10	1.00	1/8 NPT	2.20	N/A
830008 830013			mm	N/A	N/A	114	38	38	38			or smaller	5	28	25	1/8 NPT	56	N/A
820005H 820008H	1/4 NPT	3/8 NPT	in	N/A	7.50	4.50	1.50	1.50	1.50	3/8 NPT	N/A	For #10 or M5 Screw	0.20	1.10	1.00	1/8 NPT	2.20	1.25
830008H 830013H	.,		mm	N/A	191	114	38	38	38			or Smaller	5	28	25	1/8 NPT	56	32
820005M 820008M	1/4 NPT	3/8 NPT	in	7.75	N/A	4.50	1.50	1.50	1.50	3/8 NPT	3/8 NPS	For #10 or M5 Screw	0.20	1.10	1.00	1/8 NPT	2.20	1.00
830008M 830013M			mm	197	N/A	114	38	38	38			or smaller	5	28	25	1/8 NPT	56	25
820013 820017	1/2 NPT	1/2 NPT	in	N/A	N/A	6.00	1.88	1.50	1.50	1/2 NPT	N/A	For #10 or M5 Screw	0.20	1.10	1.25	1/8 NPT	2.50	N/A
830023 830031			mm	N/A	N/A	152	48	38	38			or smaller	5	28	32	1/8 NPT	64	N/A
820013H 820017H	1/2 NPT	1/2 NPT	in	N/A	9.00	6.00	1.88	1.50	1.50	1/2 NPT	N/A	For #10 or M5 Screw	0.20	1.10	1.25	1/8 NPT	2.50	1.25
830023H 830031H	./ 2 191 1	1/2 101 1	mm	N/A	229	152	48	38	38	72101	19/73	or Smaller	5	28	32	1/8 NPT	64	32
820013M 820017M	1/2 NPT	1/2 NPT	in	10.25	N/A	6.00	1.88	1.50	1.50	1/2 NPT	1/2 NPS	For #10 or M5 Screw	0.20	1.10	1.25	1/8 NPT	2.50	1.25
830023M 830031M	./21111	1/21111	mm	260	N/A	152	48	38	38	72101	721413	or Smaller	5	28	32	1/8 NPT	64	32







#### Adjustable E-Vac<sup>®</sup> Vacuum Generators A simple turn can increase or decrease vacuum and flow!

#### What Is The Adjustable E-Vac?

EXAIR's Adjustable E-Vac is a series of low cost, compressed air powered vacuum generators where the vacuum and flow rates can be easily adjusted to suit the application requirements. These vacuum pumps are ideal for a wide variety of "pick and place", box opening, clamping, lifting, chucking, and surface mounting applications. They are maintenance free and have no moving parts to wear out.

#### Why The Adjustable E-Vac?

Engineered for high efficiency, the Adjustable E-Vac minimizes compressed air use by allowing it to be tuned to the application. With a simple turn of the unit, the vacuum and flow levels can be changed to overcome porosity and increase or decrease the lifting power. The straight-through, single stage aluminum construction requires no vacuum filter and simply passes contaminants from dirty environments through the unit so there is no clogging or loss of suction.

Adjustable E-Vac is available in 4 sizes that have adjustable vacuum rates up to 25" Hg (85 kPa) and flow rates up to 81 SCFM (2,294 SLPM). Kit configurations that include vacuum cups, fittings, tubing and a mounting clip are available.







The vacuum level of the Adjustable E-Vac can quickly be changed from lifting lightweight payers to heavy cement blocks.



Compressed air flows through the inlet (1), then through an adjustable annular nozzle (2). As the airstream enters the vacuum flow, it expands and increases in velocity (3). A vacuum flow is induced, creating suction (4). The airflow that is drawn through the vacuum inlet mixes with the primary airstream, then exhausts on the opposite end (5).

	Adjustable Vacuum Generator Dimensions														
Model	Air Inlet A	Vacuum Inlet B		c	D	E	F	G	н	L	м	Exhaust Port J	Exhaust Port K		
940009	1/9 NDT	1/4 NDT	in	N/A	2.00	4.38	1.19	0.72	N/A	0.63	1.31	1/4 NIDT	NI/A		
840008	1/0 INF 1	1/4 INF 1	mm	N/A	51	111	30	18	N/A	16	33	1/4 INF 1	IN/A		
040000M	1 /9 NIDT	1/4 NDT	in	6.63	2.00	4.38	1.19	0.72	0.75	0.63	1.31	1/4 NIDT	1/4 NDS		
040000101	1/0 INF 1	1/4 INF 1	mm	168	51	111	30	18	19	16	33	1/4 NF 1	1/4 NF 3		
040015			in	N/A	2.38	5.44	1.31	0.97	N/A	0.63	1.56	1/2 NIDT	NIZA		
840015	5/6 INP I	1/2 INP1	mm	N/A	60	138	33	25	N/A	16	40	1/2 NP1	IN/A		
04001514			in	9.69	2.38	5.44	1.31	0.97	1.25	0.63	1.56	1/2 NIDT	1/2 NDC		
8400 I SIVI	5/6 INP I	1/2 INPT	mm	246	60	138	33	25	32	16	40	1/2 NP1	1/2 INP5		
040020			in	N/A	2.50	6.19	1.44	1.22	N/A	0.75	1.94	2/4 NDT	NIZA		
840030	5/6 INP I	1/2 INP1	mm	N/A	64	157	37	31	N/A	19	49	5/4 INP I	IN/A		
			in	13.63	2.50	6.19	1.44	1.22	2.00	0.75	1.94	2/4 107	2/4 1000		
840030IW	5/6 INP I	1/2 INPT	mm	346	64	157	37	31	51	19	49	5/4 INP I	5/4 INP5		
940060	1/2 NDT	2/4 NDT	in	N/A	2.75	6.50	1.56	1.47	N/A	0.75	2.19	1 NDT	NI/A		
840000	1/2 11/1	3/4 INF I	mm	N/A	70	165	40	37	N/A	19	56	LINET	19/74		
940060M	1/2 NDT	2/4 NDT	in	13.94	2.75	6.50	1.56	1.47	2.00	0.75	2.19	1 NDT	1 NDC		
0400000	1/2 NP1	3/4 INP I	mm	354	70	165	40	37	51	19	56	1 NPT	I NP5		

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### E-Vac® Vacuum Generators

#### Adjustable E-Vac Vacuum Generators

Choose the Adjustable E-Vac by the SCFM (SLPM) flow that best suits the performance needed for your application (see Performance table below).

Adjustable E-Vac Kits give you the ability to experiment with an assortment of vacuum cups. E-Vac Kits include a muffler, an assortment of (4) pairs of vacuum cups (closely matched to the performance of that E-Vac), (2) straight, (2) elbow and (1) tee vacuum fittings, 10' of vacuum tubing and a mounting clip.

Adjustable E-Vac Deluxe Kits include the same items as the standard kit with the addition of an automatic drain filter separator for the compressed air supply and pressure regulator (with coupler).



Adjustable E-Vac Vacuum Generators have vacuum levels up to 25" Hg (85 kPa) that can be used with porous and non-porous materials.

#### Adjustable E-Vac Performance

The amount of vacuum created varies with the porosity of the load being picked up. Units come from the factory set to 15" Hg (51 kPa). A maximum of 25" Hg (85 kPa) can be achieved on a solid, non-porous surface, but will require increasing the air consumption and vacuum flow.

Adjustable E-Vac	Model 8.2 SCFM 232 SLPM	Model 15.4 SCFM 436 SLPM	Model 26.4 SCFM 748 SLPM	Model 62.7 SCFM 1,775 SLPM
Adjustable E-Vac Only	840008	840015	840030	840060
Adjustable E-Vac with Straight Through Muffler	840008M	840015M	840030M	840060M
Adjustable E-Vac Kit with Straight Through Muffler	841008M	841015M	841030M	841060M
Adjustable E-Vac Deluxe Kit with Straight Through Muffler	842008M	842015M	842030M	842060M

Metric)	
15/51	
0.0 0.0	
0.0 0.0	
0.0 0.0	
0.0 0.0	
783	

	Adjustable Vacuum Generator Performance (25" Hg and 85 kPa - Metric)																							
	Air Consumption S		Air Consumption Sound Level in dBA			Va	cuum	Flow	(SCFI	//SLP	M) vs.	Vacu	um Le	evel ("	Hg/kl	Pa) (Se	t to 2	5" Hg	and 8	35 kPa	-Met	ric)		
Model	SCFM @ SLPM @	80 PSIG 5.5 BAR	No Muffler	Straight Through Muffler		)	3/	10	6/	20	9/	31	12/	/41	15	/51	18	/61	21/	/71	24	81	25/8	35
840008	12.2	345.5	104	89	5.80	164.2	5.58	157.9	5.18	146.5	4.80	135.9	4.33	122.5	3.83	108.3	2.94	83.2	1.93	54.5	0.37	10.5	0.0 0	.0
840015	25.9	733.4	107	89	18.00	509.7	16.53	467.9	15.70	444.6	14.18	401.4	12.13	343.3	8.98	254.1	5.65	160.0	2.69	76.1	0.55	15.6	0.0 0	.0
840030	44.8	1268.6	107	82	32.00	906.1	29.00	821.2	26.83	759.8	24.12	682.9	20.92	592.3	14.63	414.1	9.90	280.3	6.13	173.7	1.19	33.8	0.0 0	.0
840060	105.2	2978.8	114	92	70.00	1982.1	66.33	1878.3	62.33	1765.0	55.50	1571.5	45.00	1274.2	30.67	868.4	18.37	520.1	8.38	237.4	2.10	59.5	0.0 0	.0



Compressed air use is minimized by selecting the exact vacuum level required to lift the heavy, porous cardboard cartons.



A series of bellows cups lift one plastic part at a time off of a pallet.





#### **Choosing A Suitable Vacuum Cup**

Round Cups are best suited to smooth, fat surfaces. They will grip and release quickly. These cups hold their shape with extended use and grip well to vertical surfaces. Round cups with cleats are better at lifting heavy loads. Cups without cleats can be used for light lifting. Oval Cups provide the most vacuum

due to the larger surface area. They provide more vacuum power than round cups and are suited to lifting heavy loads. They are designed to handle flat rigid sheet materials like wood, glass, cardboard boxes and composites. Bellows Cups are best suited to textured, uneven surfaces. The folds, called "convolutions", provide a collapsible area that allows the cup to quickly compress when it touches the flat surface. The attach and release time is greater due to the significant volume of the cup.

#### Vacuum Cup Safety Factor

A safety factor of 2 is recommended when the vacuum cup is positioned horizontally.

A safety factor of 4 is recommended when the vacuum cup is positioned vertically.

Some companies or local codes may require a specific safety factor.

#### **Using The Tables Below**

Determine the weight of the part to be lifted. Multiply it by the safety factor of (2) when the cup will be positioned horizontally, or by (4) when positioned vertically.

Using the table below, look through the numbers highlighted in orange [] for the weight capacity per vacuum cup. Use enough vacuum cups to distribute the weight evenly for stable lifting and placement. The model number(s) for the vacuum cup(s) that can handle that weight are directly above (in that column) and are highlighted in blue []. Details for each vacuum cup can be found on page 108.

To the left of the vacuum cup weight you've selected (in that same row) is the vacuum level highlighted in green [1] that is needed. Performance data for the In-Line and Modular E-Vacs designed for specific vacuum levels can be found on pages 101 and 102. For loads that vary, Adjustable E-Vacs are the best choice (performance shown on page 106).

	Weight in lbs that a vacuum cup can hold at a given vacuum												
Vacuum Cup Models		900762 900766	900752 900767	900763	900764	900753 900768	900754 900769	900765	900755 900770	900756 900757 900758 900771	900759	900760	900761
Area i	of cup n²	0.4	0.8	1.0	1.5	1.8	3.1	4.4	4.9	8.3	14.2	19.6	28.3
	5	0.5	1.0	1.2	1.8	2.2	3.9	5.3	6.0	10.2	17.4	24.1	34.7
Ę	10	1.0	1.9	2.5	3.7	4.3	7.7	10.7	12.1	20.4	34.8	48.2	69.4
Ē	15	1.5	2.9	3.7	5.5	6.5	11.6	16.0	18.1	30.6	52.3	72.3	104.2
Vacuu	20	2.1	3.9	4.9	7.4	8.7	15.4	21.4	24.1	40.7	69.7	96.4	138.9
	21	2.2	4.1	5.2	7.8	9.1	16.2	22.4	25.3	42.8	73.2	101.3	145.8
	27	2.8	5.2	6.6	10.0	11.7	20.8	28.9	32.6	55.0	94.1	130.2	187.5

	Weight in kilograms that a vacuum cup can hold at a given vacuum												
Vacuu Mo	ım Cup dels	900762 900766	900752 900767	900763	900764	900753 900768	900754 900769	900765	900755 900770	900756 900757 900758 900771	900759	900760	900761
Area of cup cm <sup>2</sup>		3	5	6	10	11	20	28	32	54	92	127	182
	17	0.2	0.4	0.6	0.8	1.0	1.7	2.4	2.7	4.6	7.9	10.9	15.7
a	34	0.5	0.9	1.1	1.7	2.0	3.5	4.8	5.5	9.2	15.8	21.9	31.5
Ě	51	0.7	1.3	1.7	2.5	3.0	5.2	7.3	8.2	13.9	23.7	32.8	47.2
Cuu	68	0.9	1.7	2.2	3.4	3.9	7.0	9.7	10.9	18.5	31.6	43.7	63.0
Va.	71	1.0	1.8	2.3	3.5	4.1	7.3	10.2	11.5	19.4	33.2	45.9	66.1
	91	1.3	2.4	3.0	4.5	5.3	9.4	13.1	14.8	25.0	42.7	59.1	85.0





#### Vacuum Cup Dimensions

EXAIR vacuum cups are vinyl. They are ideal for general purpose applications and provide excellent resistance to wear. The Durometer rating (used to indicate the flexibility and stiffness of the cup) is A50. Temperature range is 32°F to 125°F (0°C to 52°C).

c



Small Round







Bellows



Vacuum Cups - Large Round										
Model		Α	В	с	D	E	F	G	Cleats	
000757	in	3.25	1.15	0.50	2.23	1.87	0.37	3/8	Vee	
900757	mm	83	29	13	57	47	9	FNPT	res	
900758	in	3.25	1.15	0.50	2.23	1.87	0.37	1/4	Vor	
	mm	83	29	13	57	47	9	FNPT	tes	
000750	in	4.25	1.18	0.50	2.75	2.43	0.37	3/8	Vee	
900759	mm	108	30	13	70	62	9	FNPT	tes	
000760	in	5.00	1.75	1.12	3.25	2.65	0.62	3/8	Vee	
900760	mm	127	44	28	83	67	16	FNPT	tes	
900761	in	6.00	1.31	0.50	4.75	4.90	0.12	1/2	Vee	
	mm	152	33	13	121	124	3	FNPT	res	

	Vacuum Cups - Oval										
Model		Α	В	с	D	E	F	G	н	Cleats	
900762	in	1.00	1.06	0.12	0.81	0.76	0.09	0.50	1/8	No	
	mm	25	27	3	21	19	2	13	MNPT	INO	
000767	in	2.00	1.06	0.12	1.81	1.76	0.09	0.50	1/8	Ne	
900765	mm	51	27	3	46	45	2	13	MNPT	INO	
000764	in	1.73	1.03	0.21	1.35	1.21	0.09	0.87	1/8		
900764	mm	44	26	5	34	31	2	22	MNPT	res	
000765	in	2.96	0.93	0.19	0.92	2.34	0.20	1.47	1/8	Ne	
900765	mm	75	24	5	23	59	5	37	FNPT	No	

			Va	cuum	Cups -	Bellow	/s				
Model		Α	в	с	D	E	F	G	н	Cleats	
000766	in	0.73	1.43	0.75	0.67	0.45	0.79	2	1/4	Ne	
900766	mm	19	36	19	17	11	20	2	FNPT	INO	
000767	in	1.00	1.48	0.85	0.56	0.44	0.85		1/8	Ne	
900767	mm	25	38	22	14	11	22	4	FNPT	INO	
000760	in	1.50	1.12	0.71	1.06	1.00	0.31	1	1/4	Ma a	
900768	mm	38	28	18	27	25	8		FNPT	tes	
	in	2.00	1.54	0.89	1.00	1.17	0.68		1/4		
900769	mm	51	39	23	25	30	17		MNPT	res	
000770	in	2.50	2.40	1.75	1.00	1.12	1.80	2	1/4	Ne	
900770	mm	64	61	44	25	28	46	2	FNPT	No	
	in	3.25	3.00	2.20	1.00	1.53	2.00		3/8		
900771	mm	83	76	56	25	39	51	2	FNPT	No	

MNPT = NPT Male FNPT = NPT Female





#### **Increased Energy And Vacuum Efficiency**

Energy and vacuum efficiency are not limited to the Adjustable E-Vac vacuum generators. All E-Vac styles and models can offer significant improvements when looking to reduce the amount of compressed air used for a specific vacuum application. Once the appropriate amount of vacuum and flow for the application are determined, it is important to select the appropriate model that will deliver the best performance while using the least amount of compressed air that it takes to do the job.

Many companies have a centralized vacuum system where the vacuum is generated at a location that is far away from the point of use. The long runs of piping through the plant produce line loss and it is often difficult to obtain that perfect balance of vacuum and flow required for the application. The compact In-line or Modular E-Vac vacuum generators eliminate this problem since they can be mounted at the point where the vacuum source is needed. EXAIR's Application Engineers can help you to select the E-Vac vacuum generator and vacuum cups that provide the right amount of lifting capability while minimizing the amount of compressed air usage.

#### **Other Applications For E-Vac**

E-Vacs are used in many other "non-lifting" applications. They are commonly used for vessel evacuation, clamping, chucking, and other work holding applications. Many types of automated equipment use vacuum to evacuate, grip, hold, align and insert parts. These vacuums can be used for surface mounting, vacuum packaging, bag opening, label placement, carton forming and container evacuation.

Another popular application is using the E-Vac for liquid sampling. This process can easily be accomplished using an E-Vac vacuum generator attached to a liquid holding tube. When the tube is dipped into the vat, tank or container, the compressed air is turned on so it draws a specific volume of liquid up into the tube. When the compressed air is turned off, the liquid flows from the tube and can be dispensed into a container or machine to be analyzed.

#### Accessories Needed To Build Your Vacuum System

EXAIR offers a variety of mufflers, tubing, check valves, and fittings shown on page 110 that make it easy to build a vacuum system best suited to your vacuum application.

When using E-Vac vacuum generators, it is important to use a source of clean, dry compressed air that will keep them operating at their peak performance. Automatic drain filter separators to keep the compressed air free of contaminants and moisture can be found on page 164. Oil removal filters that remove oil particulates that are common to many compressed air systems are also shown. Pressure regulators, shutoff valves, compressed air hose, fittings, and solenoid valves (to electrically turn the compressed air on and off) can be found on pages 165 through 168.

#### Mufflers

Optional silencing mufflers are available that permit maximum exhaust of the E-Vac unit so cycle speed is not reduced. The Standard Muffler (for use with In-Line and Modular E-Vacs only) has a closed end and is suitable for applications that are free of dust and debris. The Straight Through Muffler is recommended where particulates are present since it will not accumulate debris that can erode performance. Straight Through Mufflers offer the best sound level reduction (up to 26 dBA). Sound levels are shown on pages 101, 102 and 106.

#### Fittings and Tubing

The vacuum port of the E-Vac has an NPT thread (a vacuum cup can be threaded directly into it). For vacuum cups that are remotely located, push-in connector fittings (most have global threads for use with NPT and BSP), or hose barb fittings can be installed on the E-Vac and the vacuum cup. Polyurethane vacuum tubing is available (10', 20', 30', 40' and 50' lengths) to connect them. For best performance, the length of the tubing should be minimized to achieve the best attach and release times.

#### Check Valve

A vacuum check valve is available to hold the vacuum in case of compressed air loss. E-Vac vacuum generators that are used without a check valve will release the load if there is a significant drop in compressed air pressure or the supply of compressed air is lost.







Standard	Standard								
Model	Description	Thread							
900800	Standard Muffler	1/4 MNPT							
900801	Standard Muffler	3/8 MNPT							
900802	Standard Muffler	1/2 MNPT							
Straight Through									
Model	Description	Thread							
890001	Straight Through	1/4 MNPS							
890002	Straight Through	3/8 MNPS							
890002 890003	Straight Through Straight Through	3/8 MNPS 1/2 MNPS							
890002 890003 890004	Straight Through Straight Through Straight Through	3/8 MNPS 1/2 MNPS 3/4 MNPS							
890002 890003 890004 890005	Straight Through Straight Through Straight Through Straight Through	3/8 MNPS 1/2 MNPS 3/4 MNPS 1 MNPS							



	Check Valves							
Model	Description	Thread						
900804	Check Valve	1/4 FNPT						
900805	Check Valve	3/8 FNPT						
900806	Check Valve	1/2 FNPT						



	E-Vac Accessories							
Push-In Connector								
Model	Description							
900773	1/4 Tube x 1/8 FNPT							
900774	1/4 Tube x 1/8 Male Global Thread							
900775	1/4 Tube x 1/4 Male Global Thread							
900776	1/4 Tube x 3/8 Male Global Thread							
900777	3/8 Tube x 1/8 Male Global Thread							
900778	3/8 Tube x 1/4 Male Global Thread							
900779	3/8 Tube x 3/8 Male Global Thread							
900780	3/8 Tube x 1/2 Male Global Thread							
Push-In Swiv	vel Elbow Connector							
Model	Description							
900781	1/4 Tube x 1/8 Male Global Thread							
900782	1/4 Tube x 1/4 Male Global Thread							
900783	1/4 Tube x 3/8 Male Global Thread							
900784	3/8 Tube x 1/8 Male Global Thread							
900785	3/8 Tube x 1/4 Male Global Thread							
900786	3/8 Tube x 3/8 Male Global Thread							
900787	3/8 Tube x 1/2 Male Global Thread							
Push-In Swiv	vel Branch Tee Connector							
Model	Description							
900788	1/4 Tube x 1/8 Male Global Thread							
900789	1/4 Tube x 1/4 Male Global Thread							

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wodei	Description
900792	Female Union - 1/4 Tube x 1/4 Tube
900793	Female Union - 3/8 Tube x 3/8 Tube
900809	Female Union - 1/4 Tube x 1/4 NPT
900810	Female Union - 3/8 Tube x 1/4 NPT
Vacuum Tub	ing
Tubing lengt the tubing m the length w 20 is 1/4" tub	hs are 10', 20', 30', 40', and 50'. Select odel number (diameter) and indicate ith a dash. Example: A Model 900795- ing x 20' long.
Model	Description
900795-	1/4" O.D. Polyurethane Tubing
900796-	3/8" O.D. Polyurethane Tubing
Mounting Cl	ip
Model	Description
900798	Mounting Clip with Strap
Hose Barbs	
Model	Description
900969	1/4 MNPT x 1/4 Hose Barb
900970	1/4 MNPT x 3/8 Hose Barb
900971	1/4 MNPT x 1/2 Hose Barb
900972	1/2 MNPT x 1/4 Hose Barb
900973	1/2 MNPT x 3/8 Hose Barb
900974	1/2 MNPT x 1/2 Hose Barb
900975	1/2 MNPT x 3/4 Hose Barb
900976	3/4 MNPT x 3/8 Hose Barb
900977	3/4 MNPT x 1/2 Hose Barb
900978	3/4 MNPT x 3/4 Hose Barb
900979	3/4 MNPT x 1 Hose Barb
900980	1 MNPT x 3/4 Hose Barb
900981	1 MNPT x 1 Hose Barb
Hose	

E-Vac Accessories - continued

**Push-In Bulkhead Connector** -. .

Hose lengths are 10', 20', 30', 40', and 50'. Select the hose model number (diameter) and indicate the length with a dash. Example: A Model 900796-20 is 1/4" hose x 20' long.

Model	Description
900796-	1/4" I.D. Hose
900689-	3/8" I.D. Hose
900690-	1/2" I.D. Hose
900063-	3/4" I.D. Hose
900064-	1" I.D. Hose



MNPT = NPT Male FNPT = NPT Female









3/8 Tube x 1/4 Male Global Thread

3/8 Tube x 3/8 Male Global Thread



900790

900791



### Accessories



EXAIR's Filter Separators remove water, dirt and rust from your compressed air system. They prevent these contaminants from plugging or damaging the compressed air products. A Filter Separator should be installed prior to an oil removal filter, pressure regulator or valve.

The Model 9003 Manual Drain Filter has a polycarbonate bowl and a 20 micron filter element. A manual drain is used to empty the filter. Model 9001, 9002, 9004, 9032, and 9066 Automatic Drain Filter Separators have a metal bowl and a 5 micron filter element (Model 9004 has a polycarbonate bowl with a metal guard). An internal float automatically activates the drain when the bowl becomes full.

Model #	Description
9003	Manual Drain Filter Separator, 1/4 NPT, 27 SCFM (765 SLPM)
9004	Automatic Drain Filter Separator, 1/4 NPT, 43 SCFM (1,218 SLPM)
9001	Automatic Drain Filter Separator, 3/8 NPT, 65 SCFM (1,841 SLPM)
9032	Automatic Drain Filter Separator, 1/2 NPT, 90 SCFM (2,548 SLPM)
9002	Automatic Drain Filter Separator, 3/4 NPT, 220 SCFM (6,230 SLPM)
9066	Automatic Drain Filter Separator, 1-1/4 NPT, 400 SCFM (11,327 SLPM)



EXAIR's Model 9027, 9005, 9006, and 9010 Oil Removal Filters remove oil particulate that is typical of many compressed air systems.

A 0.03 micron element is used to trap submicron particles. An internal float automatically activates the drain when full.

Model #	Description
9027	Oil Removal Filter, 1/4 NPT, 24 SCFM (680 SLPM)
9005	Oil Removal Filter, 3/8 NPT, 15 - 37 SCFM (425-1,048 SLPM)
9006	Oil Removal Filter, 3/4 NPT, 50 - 150 SCFM (1,415-4,248 SLPM)
9010	Oil Removal Filter, 1-1/2 NPT, 130-310 SCFM (3,679-8,773 SLPM)

#### Filter Mounting Brackets

Accessorie:





#### **Pressure Regulators**

EXAIR's Model 9008, 9033, 9009 and 9067 Pressure Regulators permit easy selection of the operating pressure. A pressure gauge is included.



#### Pressure Regulator Mtg Brackets



This optional mounting bracket fits Models 9008, 9033 and 9009 Pressure Regulators and includes the bracket and a locking ring.

Model # Description

900398 Mounting Bracket for Model 9008, 9033 and 9009

#### **Mounting and Coupling Kits**

**Coupling Kits** 

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Model #	Description
9046	Mounting and Coupling Kit for Model 9001 Filter/Model 9008 Regulator and Model 9032 Filter/Model 9033 Regulator
9047	Mounting and Coupling Kit for Model 9002 Filter/Model 9009 Regulator
9048	Mounting and Coupling Kit for Model 9004 Filter/Model 9005 Oil Removal Filter

#### Model 900394





EXAIR's Coupling Kits are interlocking slides that couple the modular filters and pressure regulators together.

Model #	Description
900394	Fits auto drain filters and regulators with 1/4 NPT, 3/8 NPT and 1/2 NPT threads
900552	Fits auto drain filters and regulators with 3/4 NPT threads











### Accessories

Solenoid Valves		
	Model #	Description
	9018	NEMA 4-4X Solenoid Valve, 110-120V, 50/60Hz, 1/4 NPT, 40 SCFM (1,133 SLPM)
	9020	Solenoid Valve, 120V, 50/60Hz, 1/4 NPT, 40 SCFM (1,133 SLPM)
	9021	Solenoid Valve, 200-240V, 50/60Hz, 1/4 NPT, 40 SCFM (1,133 SLPM)
	9024	NEMA 4-4X Solenoid Valve, 240V, 50/60Hz, 1/4 NPT, 40 SCFM (1,133 SLPM)
	9059	NEMA 4-4X Solenoid Valve, 24VDC, 3/4 NPT, 200 SCFM (5,664 SLPM)
Solenoid Valves are available in a	9031	Solenoid Valve, 24VDC, 1/4 NPT, 40 SCFM (1,133 SLPM)
	9034	Solenoid Valve, 120V, 50/60Hz, 1/2 NPT, 100 SCFM (2,832 SLPM)
ariety of now rates and voltages.	9035	Solenoid Valve, 240V, 50/60Hz, 1/2 NPT, 100 SCFM (2,832 SLPM)
All models are UL Listed and are	9058	NEMA 4-4X Solenoid Valve, 24VDC, 1/2 NPT, 100 SCFM (2,832 SLPM)
CE and RoHS compliant. 🛛 🛛 🦍	9036	Solenoid Valve, 120V, 50/60Hz, 3/4 NPT, 200 SCFM (5,664 SLPM)
	9037	Solenoid Valve, 240V, 50/60Hz, 3/4 NPT, 200 SCFM (5,664 SLPM)
<u>ଞ୍</u> ( t 😁	9065	Solenoid Valve, 24VDC, 1 NPT, 350 SCFM (9,911 SLPM)

Valves



Model #	Description
9012	Manual Valve, 1/4 NPT
900340	Manual Valve, 3/8 NPT
900343	Manual Valve, 1/2 NPT
900743	Manual Valve, 3/4 NPT
900346	Manual Valve, 1 NPT
900744	Manual Valve, 1-1/4 NPT



Swivel Fittinas

EXAIR's Swivel Fittings make it easy to adjust the position of the Air Nozzles, Air Jets, and Air Amplifiers. Swivel Fittings permit a movement of 25 degrees from the center axis for a total movement of 50 degrees. Type 303 and 316 Stainless Steel

Model #	Description
9201	M4 x 0.5mm female x 1/8 MNPT Swivel Fitting
9202	M5 x 0.5mm female x 1/8 MNPT Swivel Fitting
9203	M6 x 0.75mm female x 1/8 MNPT Swivel Fitting
9052	1/8 NPT Swivel Fitting
9053	1/4 NPT Swivel Fitting
9068	3/8 NPT Swivel Fitting
9069	1/2 NPT Swivel Fitting
9023	3/4 NPT Swivel Fitting

#### Thermostat



The adjustable thermostat is factory set at 95°F (35°C). It will normally hold ±2°F (1°C) of the desired temperature setting. It is rated 24V-240V AC or DC, 50/60Hz and is UL Recognized, CSA Certified.



Model # Description 9017 Thermostat

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Model #

9040

Description

Foot Valve, 1/4 NPT ETC<sup>™</sup> Electronic Temperature Control

> Model 9239 - 240VAC, 50/60Hz Setting Temperature: Membrane push button control Power Supply Current: 165 mA max Sensor: Type J Thermocouple ETC enclosure: Polycarbonate NEMA 4X, IP 66. UL508, UL94-5V Temperature

1 Reading/second

1/4 NPT, 40 SCFM (1,133 SLPM)

158°F (70°C)

Model 9238 - 120VAC, 50/60Hz

Sampling Rate: Max, Temp.: Solenoid Valve:

CE and RoHS Compliant

EXAIR's digital ETC<sup>™</sup> (Electronic Temperature Control) provides precise temperature control for your electrical enclosure. The LED readout of the ETC displays the internal temperature of the electrical enclosure (°F or °C) that is constantly being monitored by a quick response thermocouple.

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#### Magnetic Bases



Magnetic bases are suited to applications where frequent movement of the air product is required. The powerful magnet permits horizontal or vertical mounting. A shutoff valve is provided that can be used to infinitely vary the force and flow.

Model #	Description
9042	One Outlet Magnetic Base with Shutoff Valve
9043	Two Outlet Magnetic Base with Shutoff Valve
9029	One Outlet Swivel Magnetic Base with Shutoff Valve

#### Stay Set Hoses

For applications where frequent repositioning of the air product is required, the Flexible Stay Set Hoses<sup>™</sup> are ideal. Simply mount the hose in close proximity to the application and bend it. Since the hose has "memory", it will not creep or bend. It will always keep the aim until physically moved to the next position and will withstand temperatures of up to 158°F (70°C).

(1/4 male NPT fitting on one end, 1/8 female NPT on the other)

Model #	Description			
9256	6" (152mm) 1/4 MNPT x 1/8 FNPT	- Contraction of the second se		
9262	12" (305mm) 1/4 MNPT x 1/8 FNPT	and the second lite comments		
9268	18" (457mm) 1/4 MNPT x 1/8 FNPT	and a state of the	and design of the second s	
9274	24" (610mm) 1/4 MNPT x 1/8 FNPT	Anna (acasa) (rias	(Auto CORPORATOR CROAR (1000)	
9280	30" (762mm) 1/4 MNPT x 1/8 FNPT	CALIFORNIA CONTRACTOR CONCINENTS OF URA	KAMP COPPORTON CHICHMAN, OH USA	an a successive and a s
9286	36" (914mm) 1/4 MNPT x 1/8 FNPT	CHARLES ( ) ) International Concession, Inc. (Inc.	Exam convolution (michael), (michael	TANK CONFORMATION CHICAN TATITITI

#### (1/4 male NPT fitting on each end)

Model #	Description
9206	6" (152mm) 1/4 MNPT x 1/4 MNPT
9212	12" (305mm) 1/4 MNPT x 1/4 MNPT
9218	18" (457mm) 1/4 MNPT x 1/4 MNPT
9224	24" (610mm) 1/4 MNPT x 1/4 MNPT
9230	30" (762mm) 1/4 MNPT x 1/4 MNPT
9236	36" (914mm) 1/4 MNPT x 1/4 MNPT

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Autom Cachean, Crutes	ERAN (CONVINIENCE) (INCOMENT) (IN 1958	etiminini ====
Carlos Concernent (or Line	EXAM CONCREMENT CHICANATE IN DA	

			12 F	oot (3.66	m) Coiled Ho	ses		
-	Model #	Description		Model #	Description		Model #	Description
	900106	1/4 NPT x	and the second s	900750	1/4 NPT x	- Concession	900751	3/8 NPT x
		1/4" ID			3/8" ID			3/8" ID
		Coiled Hose			Coiled Hose			Coiled Hose
	•	With Swivel			With Swivel	Annual		With Swivel





Compressed Air Hose Compressed air hose is made of reinforced synthetic rubber to assure long life and protection against ozone, weathering, and temperatures up to 158°F (70°C). Includes a 1/4

Conveying Hose



NPT male length wit	agains to cone, we altering, and temperatures up to 1700 2, minutes a pross fitting on each end. Hose lengths are 107, 207, 307, 407 and 501 Indicate the h a dash. Example: A Model 900061-30 is 3/8" ID Hose x 30' long.
Model #	Description
900061	Compressed Air Hose, 1/4 MNPT x 1/4 MNPT (3/8" ID Hose)
901179	Compressed Air Hose, 1/2 MNPT x 1/2 MNPT (1/2" ID Hose)





### Accessories

#### 60 Gallon Receiver Tank



Some applications require an intermittent demand for a high volume of compressed air. This can cause fluctuations in pressure and volume throughout the compressed air system with some points being "starved" for compressed air. EXAIR's Model 9500-60 60 Gallon Receiver Tank can be installed near the point of high demand so there is an additional supply of compressed air available for a short duration. The time between the high volume demand occurrences should be long enough so the compressor has enough time to replenish the EXAIR 60 Gallon Receiver Tank.

The 60 gallon vertical steel tank with mounting feet saves floor space and meets the American Society of Mechanical Engineers (ASME) pressure vessel code.

(It is not ASME rated for vacuum.) A drain valve is provided for placement at the bottom of the tank to discharge liquid and contaminants.

A user supplied check valve installed upstream of the receiver tank will maintain the tank at maximum pressure so upstream uses of compressed air do not deplete the tank. A user supplied needle valve can regulate the refilling of the receiver tank, effectively reducing the large intermittent air requirement into a smaller average demand.

20" 508mm 1 NPT 1/2 NP 0. 2 NPT Inspection Ports 50.38 1/4 NPT 1/2 NPT - Drain Receiver Tank

Model # Description 9500-60 60 Gallon Receiver Tank

- Pressure tank has a primer finish
- Temperature rating is -20° to 450°F
- Tank maximum pressure is 200 PSIG **Compressed Air Fittings**
- No plugs are included for open ports. User must supply pressure rated plugs and pressure relief valve.
- Weight is 165 lbs. (75 kg) Please consult your local code requirements prior to installation.

		Hex Nipple
Model #	Material	Thread Size
9890	Brass	1/8 MNPT x 1/8 MNPT
9944	Brass	1/4 MNPT x 1/4 MNPT
9759	Brass	3/8 MNPT x 3/8 MNPT
9760	Brass	1/2 MNPT x 1/2 MNPT
9761	Brass	3/4 MNPT x 3/4 MNPT
9958	304SS	1/8 MNPT x 1/8 MNPT
9959	304SS	1/4 MNPT x 1/4 MNPT
9960	304SS	3/8 MNPT x 3/8 MNPT
9961	304SS	1/2 MNPT x 1/2 MNPT
		lose Nipple
Model #	Material	Thread Size
9551	Brass	1/4 MNPT x 1/4 MNPT
9752	Brass	3/8 MNPT x 3/8 MNPT
900745	Brass	1/2 MNPT x 1/2 MNPT
900559	Brass	3/4 MNPT x 3/4 MNPT
900309	NP Brass	1/8 MNPT x 1/8 MNPT
900084	NP Brass	1/4 MNPT x 1/4 MNPT
900435	NP Brass	3/8 MNPT x 3/8 MNPT
900436	NP Brass	1/2 MNPT x 1/2 MNPT
900409	316SS	1/8 MNPT x 1/8 MNPT
900160	316SS	1/4 MNPT x 1/4 MNPT
900505	316SS	3/8 MNPT x 3/8 MNPT
900506	316SS	1/2 MNPT x 1/2 MNPT
		Coupler
Model #	Material	Thread Size
900453	NP Brass	1/8 FNPT x 1/8 FNPT
9871	Brass	1/4 FNPT x 1/4 FNPT
MNPT = Male	NPT	NP = Nickel Plated
FINFI = Fema	ie inn i	E a Trabalant A ata
0		FOR JECHNICAL ASSIST

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		Reducer
Model #	Material	Thread Size
900405	Brass	1/4 MNPT x 1/8 FNPT
900105	Brass	1/4 FNPT x 1/8 MNPT
9553	Brass	3/8 MNPT x 1/4 MNPT
9897	Brass	1/2 MNPT x 3/8 MNPT
900736	Brass	1/2 MNPT x 1/4 MNPT
900622	Brass	1/2 MNPT x 1/4 FNPT
900985	Brass	1/2 FNPT x 3/8 MNPT

		lee
Model #	Material	Thread Size
900005	Brass	1/4 FNPT x 1/4 FNPT x 1/4 MNPT
9851	Brass	1/4 MNPT x 1/4 MNPT x 1/4 MNPT
9971	Brass	3/8 FNPT x 1/4 FNPT x 3/8 MNPT
9896	Brass	3/8 FNPT x 3/8 FNPT x 3/8 FNPT
900621	Brass	1/2 FNPT x 1/2 FNPT x 1/2 FNPT
900734	Brass	1/2 FNPT x 1/4 FNPT x 1/2 FNPT
		Elbow
Model #	Material	Thread Size
7674	Brass	1/8 MNPT x 1/8 FNPT 45°
9555	Brass	1/4 MNPT x 1/4 FNPT 90°
9895	Brass	3/8 MNPT x 3/8 FNPT 90°
900073	Brass	1/4 MNPT x 3/8 Tube 90°
		Cross
Model #	Material	Thread Size
900735	Brass	1/2 FNPT
	Bu	lkhead Fitting
Model #	Material	Thread Size
900069	Brass	3/4 MNPT x 1/4 FNPT



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