

EXAIR's Intelligent Compressed Air® products vs Your current installation

How does the Efficiency Lab work?

Our Efficiency Lab service begins with receiving a sample of the product(s) you currently use for your application. One of our qualified Application Engineers will use calibrated testing equipment to compare the performance of your existing product(s) to an EXAIR engineered solution. These tests will determine air consumption, noise levels and force. The test results will then be published in a comprehensive report, which includes a cost savings analysis, and be provided to you. For most applications, EXAIR products can help you improve application efficiency AND typically pay for themselves in a matter of weeks.

How can I get a product tested for free?

To participate in our FREE Efficiency Lab please contact one of our Application Engineers and get the details about sending us your product(s).

You may reach an Application Engineer by phone at (800) 903-9247 or (513) 671-3322. You can send an email to lab@exair.com or visit our website and take advantage of our live help at www.exair.com.

EXAIR's FREE Efficiency Lab service determines how much air and dollar savings you will achieve by installing one of our Intelligent Compressed Air products.

Unable to send your product to EXAIR's Efficiency Lab?

If it is not possible to send us your product, we have a one page Product Efficiency Survey on our website (*www.exair.comllabdoc.htm*) where you can provide us the details about a current inefficient compressed air application. Fill in the information and click submit. You will hear from one of our Application Engineers within 3 business days.

Okay, so what is the fine print?

This service is available to all customers in the U.S. and Canada only. Some restrictions may apply.

What about confidentiality?

Yes, EXAIR will keep the results of our Efficiency Lab test and report confidential unless given permission to share that information with others.

Products must be shipped to EXAIR freight prepaid. EXAIR will pay the return shipping via UPS ground.

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E-Vac® Vacuum Generators

Vacuums for lifting, clamping, mounting and placement!

What Is The E-Vac?

An INTELLIGENT

COMPRESSEDAIR® Product

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

- Pick and place Chucking Vacuum forming
- Clamping Alianment
- Lifting 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 2 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).

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 particulate 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

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- 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
- 18 models
- Fast response increases cycle time
- Durable 6061 aluminum construction
- Safe operation no electricity

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Adjustable E-Vac

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





In-Line E-Vac





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 132 and 133).
- B. Select a style In-Line Low Vacuum, In-Line High Vacuum, or Adjustable (pages 132, 133 and 135). 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 or visit www.exair.com/appassist.htm

2. Determine the weight of the part.

3. Multiply the weight by the vacuum cup safety factor (see page 137) 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 137 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 132, 133 and 136) 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 (U.S. and Canada only).

Here is an example using the steps outlined above:

A sheet of material measures 3' x 3' (.91m x .91m) and weighs 25 lbs (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:
1. Choose a porous, low vacuum In-Line E-Vac. The maximum vacuum is 21" Hg (71 kPa).	1. Choose a non-porous, high vacuum In-Line E-Vac. The maximum vacuum is 27" Hg (91 kPa).
2. The weight is 25 lbs (11.3kg).	2. The weight is 25 lbs (11.3kg).
 Since the part is picked-up and hung on an overhead	 Since the part is picked-up and placed on a belt conveyor
conveyor vertically, the safety factor is 4. The vacuum cup	horizontally, the safety factor is 2. The vacuum cup capacity
capacity needed is 4 x 25 = 100 lbs (45.4kg).	needed is 2 x 25 = 50 lbs (22.7kg).
4. Four vacuum cups will be used for stability when lifting the	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.	sheet. Each cup will need at least a 12.5 lb (5.7kg) capacity.
In the table on page 123, at 21"Hg (71 kPa), the Model	In the table on page 123, at 27" Hg (91 kPa), the Model
900755 Vacuum Cup will hold up to 25.3 lbs (11.5kg).	900754 Vacuum Cup will hold up to 20.8 lbs (9.4kg).
5. There are 4 small round vacuum cups that are positioned	5. There are 4 small round vacuum cups that are positioned close
close to one another. The vacuum system has a small to	to one another. The vacuum system has a small to medium
medium volume and pick-up and release time is not critical.	volume and pick-up and release time is not critical. To reduce
To reduce the sound level, use the straight through muffler.	the sound level, use the straight through muffler.
Order: (1) Model 800008M In-Line E-Vac	Order: (1) Model 810006M In-Line E-Vac
(4) Model 900755 Vacuum Cups	(4) Model 900754 Vacuum Cups
See Page 139 for other accessories.	See Page 139 for other accessories.

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.





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 In-Line models 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' (3m) 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!

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

In-Line 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
In-Line E-Vac Only	800001	800002	800003	800005	800008	800013	800017
In-Line E-Vac with Straight Through Muffler	800001M	800002M	800003M	800005M	800008M	800013M	800017M
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

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

			In-Li	ne E-Vac L	ow Vacuu	m G	ener	atoi	Perf	form	ance	e (Po	rous	;)									
	Air Cons	umption	Sou	ınd Level in	dBA				Vacu	um F	low (SCF	N/SLF	PM) v	s.Va	cuum	Leve	el ("H	g/ kF	'a)			
In-Line E-Vac Model	SCFM @ SLPM @	80 PSIG 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	M V	ax ac
800001	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	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	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	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	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	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	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





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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 In-Line models 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' (3m) 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).

EXAIR E-Vacs are available in other materials upon request. Contact an application engineer for an alternate material quote.



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



The In-Line E-Vac with Standard Muffler (shown above) is also available with your choice of accessories that can be found on page 139.

In-Line 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

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

				In	-Line E-	Vac I	High	l Vac	uun	۱ Ge	nera	tor l	Perf	orma	ance	(No	n-Po	orou	ıs)								
In-Line	A	\ir	Sou	nd Level i	n dBA						Vacu	ıum l	Flow	(SCF	M/SI	.PM)	vs. V	acuu	ım Le	evel ("Hg/	kPa)					
E-Vac Model	Consu SCFM @ SLPM @	mption 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	Max	Vac
810002	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	0.00	0.0	27	91
810003	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	0.00	0.0	27	91
810006	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	0.00	0.0	27	91
810008	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	0.00	0.0	27	91
810013	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	0.00	0.0	27	91
810023	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	0.00	0.0	27	91
810031	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	0.00	0.0	27	91





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In-Line E-Vacs

EXAIR manufactures two versions of the In-Line E-Vac – 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).

Vacuum Generator 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 or visit www.exair.com/appassis.htm





The In-Line E-Vac (porous version) is used to lift the plywood lid of a crate in a receiving department.

In-Line E-Vac Dimensions





		In-Line	Vacu	ium Gene	rator Dim	ensions					
Model	Air Inlet A	Vacuum Inlet B		с	D	E	F	G	н	ı	к
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 NDT	in	N/A	5.00	3.00	0.88	0.75	1/4 NDT	N/A	0.81
810003H, 810006H	1/0 NF 1	1/0 NF 1	mm	N/A	127	76	22	19	1/4 INF 1	N/A	21
800001M, 800002M, 800003M, 810002M,	1 /0 NDT	1 /0 NDT	in	5.25	N/A	3.00	0.88	0.75	1/4 NDT	1/4 NPS	0.75
810003M, 810006M	1/0 11/1	1/0 111 1	mm	133	N/A	76	22	19	1/4 INP 1	1/4 NPS	19
800005 800008 810008 810013	1 /4 NDT	2/0 NDT	in	N/A	N/A	4.50	1.50	1.00	2 /0 NDT	N/A	N/A
800003, 800008, 810008, 810013	1/4 INF 1	3/0 INF I	mm	N/A	N/A	114	38	25	3/0 NF 1	N/A	N/A
80000EH 800008H 810008H 810012H	1/4 NDT	2/0 NIDT	in	N/A	7.50	4.50	1.50	1.00	2/9 NDT	N/A	1.25
00000311, 00000011, 01000011, 01001311	1/41811	5/01411	mm	N/A	191	114	38	25	5/01411	N/A	32
20000EM 200002M 210002M 210012M	1/4 NDT	2/0 NIDT	in	7.75	N/A	4.50	1.50	1.00	2/9 NDT	3/8 NPS	1.00
800003M, 800008M, 810008M, 810013M	1/4 INF 1	3/0 INF I	mm	197	N/A	114	38	25	3/0 NF 1	3/8 NPS	25
800013 800017 810033 810031	1/2 NDT	1/2 NDT	in	N/A	N/A	6.00	1.88	1.25	1/2 NDT	N/A	N/A
800013,800017,810023,810031	1/2 NP 1	1/2 INP 1	mm	N/A	N/A	152	48	32	1/2 INP1	N/A	N/A
9000121 9000171 9100231 9100211	1/2 NDT	1/2 NDT	in	N/A	9.00	6.00	1.88	1.25	1/2 NDT	N/A	1.25
800013H, 800017H, 810023H, 810031H	1/2 11191	1/2 INP 1	mm	N/A	229	152	48	32	1/2 INP1	N/A	32
			in	10.25	N/A	6.00	1.88	1.25		1/2 NPS	1.25
0000 1 SIVI, 0000 1 7 IVI, 8 1002 SIVI, 8 1003 TIVI	1/2 NPT	1/2 NPT	mm	260	N/A	152	48	32	1/2 NPT	1/2 NPS	32





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Adjustable E-Vac[®] 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 pavers to heavy cement blocks.

How The Adjustable E-Vac Works



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).

					Adjusta	ble Vacu	um Gen	erator Di	imensio	ns			
Model	Air Inlet A	Vacuum Inlet B		c	D	E	F	G	н	L	м	Exhaust Port J	Exhaust Port K
040000	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 NDT	N/A
040000	1/O INF I	1/41111	mm	N/A	51	111	30	18	N/A	16	33	1/4 INF 1	19/75
04000084	1/0 NDT	1/4 NDT	in	6.63	2.00	4.38	1.19	0.72	0.75	0.63	1.31	1/4 NDT	1/4 NDC
640006IVI	1/0 11/1	1/4 INP I	mm	168	51	111	30	18	19	16	33	1/4 INP 1	1/4 INP 5
940015	2 /0 NDT	1/2 NDT	in	N/A	2.38	5.44	1.31	0.97	N/A	0.63	1.56	1/2 NDT	NI/A
640015	5/6 INP I	1/2 INP I	mm	N/A	60	138	33	25	N/A	16	40	1/2 NP 1	IN/A
94001EM	2 /0 NDT	1/2 NDT	in	9.69	2.38	5.44	1.31	0.97	1.25	0.63	1.56	1/2 NDT	1/2 NDC
6400 I 5IVI	3/0 INP I	1/2 INP I	mm	246	60	138	33	25	32	16	40	1/2 INP I	1/2 NP5
040020	2 /0 NDT	1/2 NDT	in	N/A	2.50	6.19	1.44	1.22	N/A	0.75	1.94	2/4 NDT	NI/A
640050	5/6 INP I	1/2 INP 1	mm	N/A	64	157	37	31	N/A	19	49	5/4 INP I	IN/A
04002084	2 /0 NDT	1/2 NDT	in	13.63	2.50	6.19	1.44	1.22	2.00	0.75	1.94	2/4 NDT	2/4 NDC
640050IVI	5/6 INP I	1/2 INP 1	mm	346	64	157	37	31	51	19	49	5/4 INP I	5/4 INP 5
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 NIDT	N/A
840000	1/2 INF 1	3/4 INF I	mm	N/A	70	165	40	37	N/A	19	56	I INF I	19/75
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 NIDT	1 NDC
0400000	1/2 INP1	3/4 INP I	mm	354	70	165	40	37	51	19	56	T INP I	1 NP 5





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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' (3m) 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

					Adjust	able Va	cuum Ge	enerato	Perfor	nance (15" Hg/	51 kPa)					
l		Air Cons	umption	Sound L	evel in dBA		Vac	uum Flov	v (SCFM/	5LPM) vs	. Vacuum	Level ("I	Hg/kPa)	Set to 1	5" Hg/51	kPa)	
	Model	SCFM @ SLPM @	SCFM @ 80 PSIG SLPM @ 5.5 BAR No 8.2 232.2 89 77				0	3/	10	6/	20	9/	31	12	/41	15,	/51
	840008	8.2	232.2	89	77	5.80	164.2	4.68	132.6	3.71	105.0	2.59	73.4	1.53	43.2	0.0	0.0
1	840015	15.4	436.1	95	77	18.70	529.5	16.00	453.1	12.02	340.3	7.75	219.4	4.05	114.7	0.0	0.0
	840030	26.4	747.5	99	74	36.70	1039.2	32.00	906.1	25.63	725.8	17.68	500.5	7.69	217.8	0.0	0.0
	840060	62.7	1775.4	107	85	81.00	2293.6	67.00	1897.2	56.33	1595.1	29.00	821.2	11.13	315.3	0.0	0.0

					Adju	stabl	e Vac	uum	Gene	rato	r Perf	orma	nce (25" H	lg/ 8	5 kPa)							
	AirCons	umption	Sound Le	vel in dBA				Vacu	um Fle	ow (Se	CFM/S	LPM)	vs. Va	cuum	Leve	l ("Hg	/kPa)	(Set t	o 25"	Hg/85	kPa)			
Model	SCFM @ SLPM @	80 PSIG 5.5 BAR	No Muffler	Straight Through Muffler		D	3/	10	6/	20	9/	31	12	/41	15	/51	18,	/61	21	/71	24/	/81	25/	/85
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



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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.

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Choosing A Suitable Vacuum Cup



Round Cups are best suited to smooth, flat 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 in 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 138.

To the left of the vacuum cup weight you've selected (in that same row) is the vacuum level highlighted in green in that is needed. Performance data for the In-Line E-Vacs designed for specific vacuum levels can be found on pages 132-133. For loads that vary, Adjustable E-Vacs are the best choice (performance shown on page 136).

			W	eight in	lbs that	a vacuu	ım cup o	an hold	at a giv	en vacuum			
Vacuu Mo	m Cup dels	900762 900766	900752 900767	900763	900764	900753 900768	900754 900769	900765	900755 900770	900756 900757 900758 900771	900759	900760	900761
Area o ir	of cup 1 ²	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
Cuu	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
Va	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												
Vacuum Cup Models		900762 900766	900752 900767	900763	900764	900753 900768	900754 900769	900765	900755 900770	900756 900757 900758 900771	900759	900760	900761
Area of cup cm ²		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
Ра	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
ž z	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





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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° to 125°F (0° to 52°C).

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EXPERT



Small Round



Large Round





Bellows

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Vacuum Cups - Small Round										
Model		Α	В	с	D	E	F	G	Cleats	
000752	in	1.00	1.12	0.25	0.81	0.45	0.17	1/4	No	
900752	mm	25	28	6	21	11	4	FNPT		
900753	in	1.50	0.90	0.28	1.25	1.06	0.12	1/4	Yes	
	mm	38	23	7	32	27	3	FNPT		
000754	in	2.00	1.00	0.25	1.56	1.31	0.18	1/4	Yes	
900754	mm	51	25	6	40	33	5	FNPT		
000755	in	2.50	1.80	0.72	1.35	0.95	0.62	1/4	Vee	
900/55	mm	64	46	18	34	24	16	FNPT	rës	
900756	in	3.50	1.10	0.56	0.98	0.51	0.37	1/4	No	
	mm	89	28	14	25	13	9	FNPT		

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	Yes		
900757	mm	83	29	13	57	47	9	FNPT			
900758	in	3.25	1.15	0.50	2.23	1.87	0.37	1/4	Yes		
	mm	83	29	13	57	47	9	FNPT			
000750	in	4.25	1.18	0.50	2.75	2.43	0.37	3/8	Yes		
900759	mm	108	30	13	70	62	9	FNPT			
000760	in	5.00	1.75	1.12	3.25	2.65	0.62	3/8	Yes		
900760	mm	127	44	28	83	67	16	FNPT			
000761	in	6.00	1.31	0.50	4.75	4.90	0.12	1/2	Yes		
900761	mm	152	33	13	121	124	3	FNPT			

Vacuum Cups - Oval											
Model		Α	В	с	D	E	F	G	н	Cleats	
	in	1.00	1.06	0.12	0.81	0.76	0.09	0.50	1/8 MNPT	No	
900762	mm	25	27	3	21	19	2	13			
000763	in	2.00	1.06	0.12	1.81	1.76	0.09	0.50	1/8 MNPT	No	
900765	mm	51	27	3	46	45	2	13			
000764	in	1.73	1.03	0.21	1.35	1.21	0.09	0.87	1/8 MNPT	Yes	
900764	mm	44	26	5	34	31	2	22			
000765	in	2.96	0.93	0.19	0.92	2.34	0.20	1.47	1/8	No	
900765	mm	75	24	5	23	59	5	37	FNPT		

Vacuum Cups - Bellows										
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 FNPT	No
900766	mm	19	36	19	17	11	20	2		
000767	in	1.00	1.48	0.85	0.56	0.44	0.85		1/8 FNPT	No
900767	mm	25	38	22	14	11	22	4		
000769	in	1.50	1.12	0.71	1.06	1.00	0.31	1	1/4 FNPT	Yes
900766	mm	38	28	18	27	25	8			
000760	in	2.00	1.54	0.89	1.00	1.17	0.68	1	1/4 FNPT	Yes
900769	mm	51	39	23	25	30	17			
900770	in	2.50	2.40	1.75	1.00	1.12	1.80	2	1/4	Na
	mm	64	61	44	25	28	46	2	FNPT	INO
000771	in	3.25	3.00	2.20	1.00	1.53	2.00	2	3/8	No
900771	mm	83	76	56	25	39	51	2	FNPT	

MNPT = NPT Male FNPT = NPT Female Spray Expert - авторизованный дистрибьютор EXAIR на территориях России и Казахстана

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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 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 a 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 140 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 201. 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, and solenoid valves (to electrically turn the compressed air on and off) can be found on page 202 through 205.

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 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 132, 133 and 136.

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 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.





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	Mufflers								
to be the	Standard	I							
1.1.1	Model	De	escription	Thread					
	900800	Sta	andard Muffler	1/4 MNPT					
	900801	Sta	andard Muffler	3/8 MNPT					
	900802	Sta	andard Muffler	1/2 MNPT					
	Straight Through								
	Model	De	escription	Thread					
	890001	St	raight Through	1/4 MNPS					
	890002	St	raight Through	3/8 MNPS					
	890003	St	raight Through	1/2 MNPS					
	890004	St	raight Through	3/4 MNPS					
-	890005	St	raight Through	1 MNPS					
-			Check Valves						
2	Model	De	escription	Thread					
	900804	Ch	eck Valve	1/4 FNPT					
	900805	Cł	eck Valve	3/8 FNPT					
	900806	Ch	eck Valve	1/2 FNPT					
-	Durch In (E-vac Accessories						
	Pusn-in C	.on	Description						
	wodel		Description						
	900773	1/4 Tube x 1/8 Male Global Thread							
	90077	•	1/4 Tube x 1/8 Male Globa	al Thread					
	90077	,	1/4 Tube x 7/4 Male Globa	al Thread					
	90077	,	2/9 Tube x 1/9 Male Glob	al Throad					
	900779	2	3/8 Tube x 1/4 Male Global Thread						
	900770	,	3/8 Tube x 3/8 Male Global Thread						
	900779	, ,	3/8 Tube x 1/2 Male Global Thread						
	Puch-In 9	, 	vel Elbow Connector						
-	Model		Description						
	900781		1/4 Tubo x 1/9 Malo Global Throad						
	00078	,	1/4 Tube x 1/8 Male Global Thread						
	900783	2	1/4 Tube x 1/4 Male Global Thread						
	90078/	, 1	1/4 Tube x 3/8 Male Global Thread						
	90078		3/8 Tube x 1/4 Male Glob	al Thread					
	90078/	, ,	3/8 Tube x 1/4 Male Global Thread						
	90078	,	3/8 Tube x 3/8 Male Global Thread						
	Push-In 9	win	el Branch Tee Connector						
	Model		Description						
· ·	900799	2	1/4 Tube x 1/8 Male Clob	al Thread					
	900790		1/4 Tube x 1/4 Male Glob	al Thread					
	90070	,)	3/8 Tube x 1/4 Malo Clob	al Thread					
	900790		3/8 Tube x 3/9 Malo Clob	al Thread					
	900/9		J/O I UDE X J/O IVIdIE GIODi	ai i litedu					





111	Model	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 Tubing								
9	Tubing lengths are 10', 20', 30', 40', and 50'. Select the tubing model number (diameter) and indicate the length with a dash. Example: A Model 900795- 20 is 1/4" tubing x 20' long.								
	Model	Description							
	900795-	1/4" O.D. Polyurethane Tubing							
	900796-	3/8" O.D. Polyurethane Tubing							
	Mounting Clip								
	Model	Description							
	900798	Mounting Clip with Strap							
	Hose Barbs								
	Model Description								
	900969	1/4 MNPT x 1/4 Hose Barb							
	900969 900970	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb							
	900969 900970 900971	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb							
	900969 900970 900971 900972	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb 1/2 MNPT x 1/4 Hose Barb							
	900969 900970 900971 900972 900973	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb 1/2 MNPT x 1/4 Hose Barb 1/2 MNPT x 3/8 Hose Barb							
	900969 900970 900971 900972 900973 900974	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb 1/2 MNPT x 1/4 Hose Barb 1/2 MNPT x 3/8 Hose Barb 1/2 MNPT x 3/8 Hose Barb 1/2 MNPT x 1/2 Hose Barb							
	900969 900970 900971 900972 900973 900974 900975	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb 1/2 MNPT x 1/4 Hose Barb 1/2 MNPT x 3/8 Hose Barb 1/2 MNPT x 1/2 Hose Barb 1/2 MNPT x 3/4 Hose Barb							
	900969 900970 900971 900972 900973 900974 900975 900976	1/4 MNPT x 1/4 Hose Barb 1/4 MNPT x 3/8 Hose Barb 1/4 MNPT x 1/2 Hose Barb 1/2 MNPT x 1/4 Hose Barb 1/2 MNPT x 3/8 Hose Barb 1/2 MNPT x 3/4 Hose Barb 3/4 MNPT x 3/8 Hose Barb							
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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 $1/4^{\prime\prime}$ hose x 20' long.

Model	Description
901845-	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

)	Vacuum Gauge									
	Model	Description	Thread							
	900811	Vacuum Gauge (-30" Hg/-1 BAR/-100 kPa-0)	1/8 MNPT							

MNPT = NPT Male FNPT = NPT Female

Spray Expert - авторизованный дистрибьютор EXAIR на территориях России и Казахстана

107564, Москва, ул. Краснобогатырская, д. 38

MNPT = NPT Male FNPT = NPT Female

EXPERT

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140 Corporation

EXAIR[®] Standards Compliance

As the leader in standards compliance, EXAIR's products come with more than engineered performance, peak efficiency, the best technical knowledge and unmatched customer service....

EXAIR is dedicated to providing products that have been manufactured to meet the strict requirements of the following standards. These standards provide confidence that you are receiving reliable, high quality products which will perform as stated within the performance charts provided.

Our products meet or exceed the strict safety standards of OSHA and the European Union to ensure the safety of your personnel. Many of these standards will allow your products a smoother transaction when selling your products into international markets.



EXAIR compressed air products comply with OSHA's Safety Requirements (29 CFR 1910.242(b)), the EU General Product Safety Directive (2001/95/EC) and meet the noise limitation requirements (29 CFR-1910.95(a)), of the EU Machinery Directive (2006/42/EC). EXAIR's Electronic Flow Control and Electronic Temperature Control meet the low voltage standards of the EU Low Voltage Directive (2006/95/EC). Some EXAIR products display the CE mark where there are applicable directives. All sound level measurements are taken at 3 feet from product.



Electrical portions of EXAIR's Static Eliminators, EFC, ETC, Digital Flowmeter solenoid valves, and thermostats comply with the RoHS (Restriction of Hazardous Substances) Directive 2011/65/EU, including the amendment outlined in the European Commission decision L 214/65.

Conflict Mineral Free:



Look for this symbol to designate conflict mineral free products throughout our catalog. EXAIR supports Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. We are committed to compliance with the conflict minerals rule in order to curb the illicit trade of tin, tantalum, tungsten and gold in the DRC region. EXAIR is using the CMRT 4.20 template to document our supply chain and commitment to conflict free products.



Per Regulation (EC) No 1907/2006 Title I, Article 3, paragraph 3, the European Union has recently enacted legislation to register chemicals and substances imported into the EU to ensure a high level of protection of human health and the environment.

Per Title II, Article 7, paragraph 1, articles (products) must be registered when a substance is intended to be released under normal or reasonably foreseeable conditions of use and it is present in those articles in quantities totaling over 1 metric ton per producer or importer per year. Registration of EXAIR products is not required since they do not contain substances that are intentionally released.





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