

# ABM/ABX Series

## Mini Combined Type Vacuum Generator



### Features

- ◇ Energy-efficient nozzle design
- ◇ Small size, light weight, compact structure, easy installation
- ◇ Can be operated with a single pneumatic control valve, each vacuum circuit can be controlled by each ABM/ABX and does not affect the running of other circuits

### Advantages

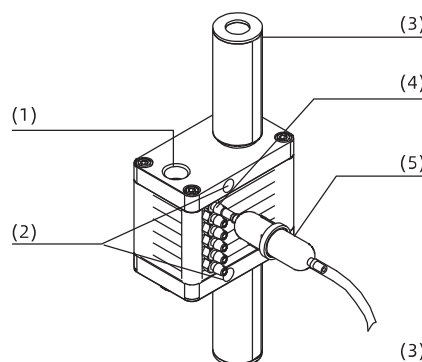
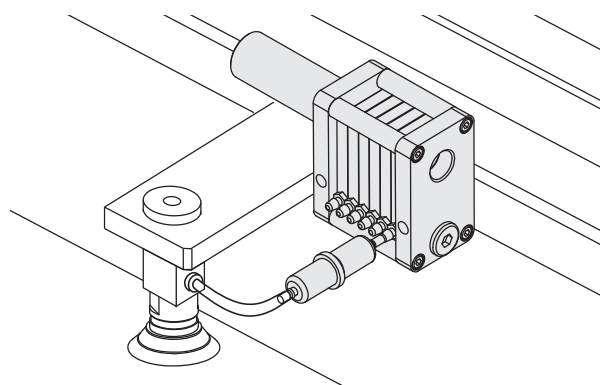
- ◇ It can produce more vacuum flow in the condition of less air consumption
- ◇ For the occasions with limited installation space and weight
- ◇ It is convenient to control, it can control each circuit separately in the working condition of multiple units are used seperately
- ◇ It can meet different requirements of vacuum flow in different working conditions

### Applications

- ◇ Universal vacuum generator, widely used in all kinds of vacuum systems
- ◇ Suitable for metal plate handling, packaging machinery, injection molding and industrial robot technology field

### Structure

- ◇ (1) Air supply port
- ◇ (2) Mounting hole
- ◇ (3) Silencer
- ◇ (4) Vacuum port
- ◇ (5) Vacuum filter



Vacuum Generator

AZK

AZX

AZD

AGS

AGB

AGP

AGX

AGE

**ABM/ABX**

**ABM/ABX**  
Combined Type

AMC

AM/AL/AH

AM/AL  
Combined Type

AMD

AZW

AZR

ABT

ABP

ABQ

AEVC

AZL

AZH

AZU

ACV

ASBP

ALS

ACP

ACPF

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### How to order

**ABM 5 × 5 - 4 - F**  
 ①      ②      ③      ④      ⑤

① Series	② Specification	③ Vacuum stack	④ Hose inner dia.at vacuum port	⑤ Sealing
ABM - Universal type(-85kPa)	5	2	4 - φ4mm	Nil - Default, NBR
ABX - High vacuum level type(-92kPa)	10	3		F - Fluorine rubber
		.....		E - EPDM
		16		

### Selection

Model/ Specification	5	10	Model/ Specification	5	10
ABM□×2-4	ABM5×2-4	ABM10×2-4	ABX□×2-4	ABX5×2-4	ABX10×2-4
ABM□×3-4	ABM5×3-4	ABM10×3-4	ABX□×3-4	ABX5×3-4	ABX10×3-4
ABM□×4-4	ABM5×4-4	ABM10×4-4	ABX□×4-4	ABX5×4-4	ABX10×4-4
ABM□×5-4	ABM5×5-4	ABM10×5-4	ABX□×5-4	ABX5×5-4	ABX10×5-4
ABM□×6-4	ABM5×6-4	ABM10×6-4	ABX□×6-4	ABX5×6-4	ABX10×6-4
ABM□×7-4	ABM5×7-4	ABM10×7-4	ABX□×7-4	ABX5×7-4	ABX10×7-4
ABM□×8-4	ABM5×8-4	ABM10×8-4	ABX□×8-4	ABX5×8-4	ABX10×8-4
ABM□×9-4	ABM5×9-4	ABM10×9-4	ABX□×9-4	ABX5×9-4	ABX5×9-4
ABM□×10-4	ABM5×10-4	ABM10×10-4	ABX□×10-4	ABX5×10-4	ABX5×10-4
ABM□×11-4	ABM5×11-4	ABM10×11-4	ABX□×11-4	ABX5×11-4	ABX5×11-4
ABM□×12-4	ABM5×12-4	ABM10×12-4	ABX□×12-4	ABX5×12-4	ABX5×12-4
ABM□×13-4	ABM5×13-4	ABM10×13-4	ABX□×13-4	ABX5×13-4	-
ABM□×14-4	ABM5×14-4	ABM10×14-4	ABX□×14-4	ABX5×14-4	-
ABM□×15-4	ABM5×15-4	ABM10×15-4	ABX□×15-4	ABX5×15-4	-
ABM□×16-4	ABM5×16-4	ABM10×16-4	ABX□×16-4	ABX5×16-4	-

# ABM/ABX Series



## Mini Combined Type Vacuum Generator

### Technical parameters

Model	Air supply pressure range bar	Max. vacuum level -kPa	Max. vacuum flow NL/min	Air consumption NL/min	Noise level dB(A)	Working temperature °C	Weight g	Recommended hose dia. (mm)		
								Air supply port P	Vacuum port V	Exhaust port E
ABM5×2-4	4.5~6.0	85	25×2	29~41	50~60	-20~80	67	φ6	φ6	G3/8×1
ABM5×3-4	4.5~6.0	85	25×3	44~64	50~60	-20~80	80	φ6	φ6	G3/8×1
ABM5×4-4	4.5~6.0	85	25×4	61~85	50~60	-20~80	247	φ8	φ6	G3/8×1
ABM5×5-4	4.5~6.0	85	25×5	71~104	60~65	-20~80	255	φ8	φ6	G3/8×1
ABM5×6-4	4.5~6.0	85	25×6	89~125	60~65	-20~80	281	φ8	φ6	G3/8×1
ABM5×7-4	4.5~6.0	85	25×7	104~145	60~65	-20~80	299	φ8	φ6	G3/8×1
ABM5×8-4	4.5~6.0	85	25×8	120~168	60~65	-20~80	317	φ10	φ6	G3/8×1
ABM5×9-4	4.5~6.0	85	25×9	132~190	60~65	-20~80	335	φ10	φ6	G3/8×1
ABM5×10-4	4.5~6.0	85	25×10	148~211	60~65	-20~80	353	φ10	φ6	G3/8×1
ABM5×11-4	4.5~6.0	85	25×11	165~232	60~65	-20~80	371	φ10	φ6	G3/8×1
ABM5×12-4	4.5~6.0	85	25×12	180~252	60~65	-20~80	389	φ10	φ6	G3/8×2
ABM5×13-4	4.5~6.0	85	25×13	195~275	60~65	-20~80	417	φ10	φ6	G3/8×2
ABM5×14-4	4.5~6.0	85	25×14	208~293	60~65	-20~80	435	φ10	φ6	G3/8×2
ABM5×15-4	4.5~6.0	85	25×15	225~316	60~65	-20~80	453	φ12	φ6	G3/8×2
ABM5×16-4	4.5~6.0	85	25×16	241~335	60~65	-20~80	471	φ12	φ6	G3/8×2
ABM10×2-4	4.5~6.0	85	32×2	61~85	55~60	-20~80	67	φ8	φ6	G3/8×1
ABM10×3-4	4.5~6.0	85	32×3	91~125	60~65	-20~80	80	φ8	φ6	G3/8×1
ABM10×4-4	4.5~6.0	85	32×4	121~167	60~65	-20~80	247	φ10	φ6	G3/8×1
ABM10×5-4	4.5~6.0	85	32×5	151~212	60~65	-20~80	255	φ10	φ6	G3/8×1
ABM10×6-4	4.5~6.0	85	32×6	185~255	60~65	-20~80	281	φ10	φ6	G3/8×2
ABM10×7-4	4.5~6.0	85	32×7	211~295	60~65	-20~80	299	φ10	φ6	G3/8×2
ABM10×8-4	4.5~6.0	85	32×8	241~335	60~65	-20~80	327	φ10	φ6	G3/8×2
ABM10×9-4	4.5~6.0	85	32×9	271~376	60~65	-20~80	345	φ12	φ6	G3/8×2
ABM10×10-4	4.5~6.0	85	32×10	301~421	60~65	-20~80	363	φ12	φ6	G3/8×2
ABM10×11-4	4.5~6.0	85	32×11	332~463	60~65	-20~80	381	φ12	φ6	G3/8×2
ABM10×12-4	4.5~6.0	85	32×12	361~505	60~65	-20~80	399	φ12	φ6	G3/8×2

◇ Note: Max. air supply pressure is 7.0 bar

### Vacuum flow(NL/min) at different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	Vacuum level (-kPa)										Max. vacuum level -kPa
			0	10	20	30	40	50	60	70	80	90	
ABM5×1	6.0	20	25.0	15.0	12.5	11.0	10.0	7.5	5.5	2.0	0.6	-	85
ABM10×1	6.0	42	32.0	28.0	24.0	22.0	18.0	15.0	11.0	5.0	1.4	-	85

### Evacuation time(s/L) to reach different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	Vacuum level (-kPa)										Max. vacuum level -kPa
			10	20	30	40	50	60	70	80	90		
ABM5×1	6.0	20	0.20	0.59	1.10	1.58	2.40	3.52	5.30	10.30	-	85	
ABM10×1	6.0	42	0.12	0.28	0.60	0.81	1.18	1.82	2.65	5.21	-	85	

Vacuum Generator

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### Technical parameters

Model	Air supply pressure range bar	Max. vacuum level -kPa	Max. vacuum flow NL/min	Air consumption NL/min	Noise level dB(A)	Working temperature °C	Weight g	Recommended hose dia. mm		
								Air supply port P	Vacuum port V	Exhaust port E
ABX5×2-4	4.5~6.0	92	23×2	43~49	55~60	-20~80	67	φ6	φ6	G3/8×1
ABX5×3-4	4.5~6.0	92	23×3	65~73	55~60	-20~80	80	φ6	φ6	G3/8×1
ABX5×4-4	4.5~6.0	92	23×4	85~96	60~63	-20~80	247	φ8	φ6	G3/8×1
ABX5×5-4	4.5~6.0	92	23×5	106~121	60~63	-20~80	255	φ8	φ6	G3/8×1
ABX5×6-4	4.5~6.0	92	23×6	130~144	60~63	-20~80	281	φ8	φ6	G3/8×1
ABX5×7-4	4.5~6.0	92	23×7	151~167	60~63	-20~80	299	φ8	φ6	G3/8×1
ABX5×8-4	4.5~6.0	92	23×8	173~193	60~63	-20~80	317	φ10	φ6	G3/8×1
ABX5×9-4	4.5~6.0	92	23×9	195~217	60~63	-20~80	335	φ10	φ6	G3/8×1
ABX5×10-4	4.5~6.0	92	23×10	215~241	60~63	-20~80	353	φ10	φ6	G3/8×1
ABX5×11-4	4.5~6.0	92	23×11	238~265	60~63	-20~80	371	φ10	φ6	G3/8×1
ABX5×12-4	4.5~6.0	92	23×12	260~289	60~63	-20~80	389	φ10	φ6	G3/8×2
ABX5×13-4	4.5~6.0	92	23×13	281~313	60~63	-20~80	417	φ10	φ6	G3/8×2
ABX5×14-4	4.5~6.0	92	23×14	335~346	60~63	-20~80	435	φ10	φ6	G3/8×2
ABX5×15-4	4.5~6.0	92	23×15	361~389	63~65	-20~80	453	φ10	φ6	G3/8×2
ABX5×16-4	4.5~6.0	92	23×16	346~385	63~65	-20~80	471	φ10	φ6	G3/8×2
ABX10×2-4	4.5~6.0	92	32×2	87~96	63~65	-20~80	67	φ8	φ6	G3/8×1
ABX10×3-4	4.5~6.0	92	32×3	130~145	63~65	-20~80	80	φ8	φ6	G3/8×1
ABX10×4-4	4.5~6.0	92	32×4	173~193	63~65	-20~80	247	φ10	φ6	G3/8×1
ABX10×5-4	4.5~6.0	92	32×5	215~241	63~65	-20~80	255	φ10	φ6	G3/8×1
ABX10×6-4	4.5~6.0	92	32×6	260~288	63~65	-20~80	281	φ10	φ6	G3/8×2
ABX10×7-4	4.5~6.0	92	32×7	303~337	63~65	-20~80	299	φ10	φ6	G3/8×2
ABX10×8-4	4.5~6.0	92	32×8	346~385	63~65	-20~80	327	φ10	φ6	G3/8×2
ABX10×9-4	4.5~6.0	92	32×9	389~433	63~65	-20~80	345	φ12	φ6	G3/8×2
ABX10×10-4	4.5~6.0	92	32×10	433~481	63~65	-20~80	363	φ12	φ6	G3/8×2
ABX10×11-4	4.5~6.0	92	32×11	476~529	63~65	-20~80	381	φ12	φ6	G3/8×2
ABX10×12-4	4.5~6.0	92	32×12	519~578	63~65	-20~80	399	φ12	φ6	G3/8×2

◇ Note: Max. air supply pressure is 7.0 bar.

### Vacuum flow(NL/min) at different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	Vacuum level (-kPa)											Max. vacuum level -kPa
			0	10	20	30	40	50	60	70	80	90		
ABX5×1	6.0	22	23.0	14.0	10.0	9.0	7.5	6.0	4.0	2.8	1.5	0.44	92	
ABX10×1	6.0	40	32.0	21.0	18.0	16.0	14.0	11.0	9.5	5.5	2.5	1.10	92	

### Evacuation time(s/L) to reach different vacuum levels(-kPa)

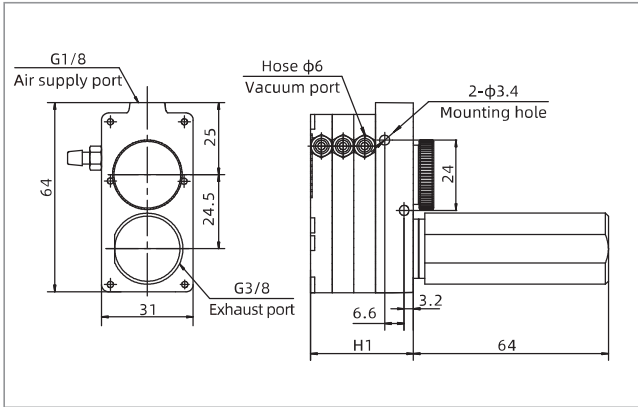
Model	Air supply pressure bar	Air consumption NL/min	Vacuum level (-kPa)											Max. vacuum level -kPa
			10	20	30	40	50	60	70	80	90			
ABX5×1	6.0	22	0.21	0.81	1.52	2.35	3.48	4.85	6.57	10.50	19.30	92		
ABX10×1	6.0	40	0.14	0.40	0.78	1.22	1.77	2.40	3.30	4.95	9.62	92		

# ABM/ABX Series

## Mini Combined Type Vacuum Generator



### Dimensions(mm)



ABM/ABX□×2-4    ABM/ABX□×3-4

Model/size	H1	H2	L
ABM/ABX5×2-4	28	-	-
ABM/ABX5×3-4	36	-	-
ABM/ABX5×4-4	50.5	40.5	-
ABM/ABX5×5-4	58	48	-
ABM/ABX5×6-4	65.5	55.5	-
ABM/ABX5×7-4	73	63	-
ABM/ABX5×8-4	80	70	-
ABM/ABX5×9-4	87.5	77.5	-
ABM/ABX5×10-4	95	85	-
ABM/ABX5×11-4	102.5	92.5	-
ABM/ABX5×12-4	110	100	64
ABM/ABX5×13-4	117.5	107.5	64
ABM/ABX5×14-4	125	115	64
ABM/ABX5×15-4	132.5	122.5	64
ABM/ABX5×16-4	140	130	64

Vacuum Generator

AZK

AZX

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AGE

ABM/ABX

ABM/ABX Combined Type

AMC

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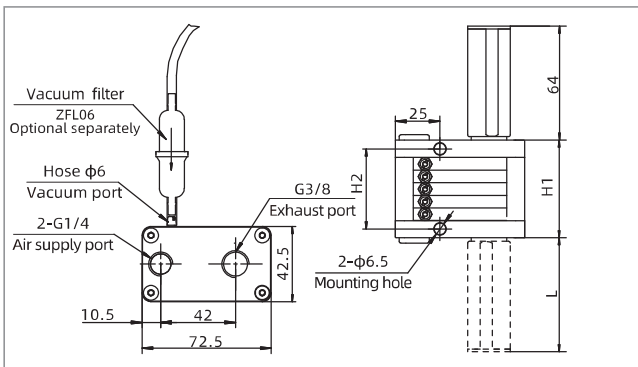
ALS

ACP

ACPF

ACPS

APB



ABM/ABX□×(4-8)-4

Model/size	H1	H2	L
ABM/ABX10×2-4	28	-	-
ABM/ABX10×3-4	36	-	-
ABM/ABX10×4-4	50.5	40.5	-
ABM/ABX10×5-4	58	48	-
ABM/ABX10×6-4	65.5	55.5	-
ABM/ABX10×7-4	73	63	-
ABM/ABX10×8-4	80	70	-
ABM/ABX10×9-4	87.5	77.5	-
ABM/ABX10×10-4	95	85	-
ABM/ABX10×11-4	102.5	92.5	-
ABM/ABX10×12-4	110	100	64

### Repair kits

Item	Model
Vacuum filter	ZFL06
Silencer	ZSA-G3M