

AZH Series

Basic Vacuum Generator

AIRBEST



RoHS

Features

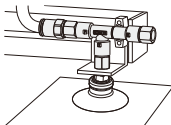
- ◇ Single stage vacuum generator with plastic housing
- ◇ High vacuum level type and large vacuum flow type for option
- ◇ Body ported type and box type for option
- ◇ Thread connection or one-touch fitting for port connection

Advantages

- ◇ Small size, light weight and cost-effective
- ◇ Suitable for various occasions
- ◇ Box type with built-in silencer to reduce noise
- ◇ Thread connection and one-touch fitting for port connection

Applications

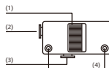
- ◇ Widely used in all kinds of vacuum systems
- ◇ Suitable for various handling operations such as automotive, metal sheet, wood, food and packaging, etc.
- ◇ High vacuum type and large flow type for different occasions



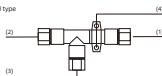
Structure

- ◇ (1) Exhaust port
- ◇ (2) Air supply port
- ◇ (3) Vacuum port
- ◇ (4) Mounting hole

B - Box type



D - Body ported type



Vacuum Generator

AZX

AZQ

AZX

AZD

AGS

AGB

AGP

AGX

AGE

ABP/ABQ

ABW/ABX

ABW/ABX

AMC

AW/WH

AW/WH

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How to order

AZH 07 B S - 06 - 06

AZH 07 D S - 01 - 01 - 01

① ② ③ ④ ⑤ ⑥ ⑦

① Series	② Nozzle diameter	③ Shape	④ Specification	⑤ Air supply port	⑥ Vacuum port	⑦ Exhaust port
AZH	05 - $\phi 0.5$ mm 07 - $\phi 0.7$ mm 10 - $\phi 1.0$ mm 13 - $\phi 1.3$ mm 15 - $\phi 1.5$ mm 18 - $\phi 1.8$ mm 20 - $\phi 2.0$ mm	B - Box type D - Body ported type	S - High vacuum level type L - Large vacuum flow type (-88kPa) (-48kPa)	06 - $\phi 6$ One-touch fitting 08 - $\phi 8$ One-touch fitting 10 - $\phi 10$ One-touch fitting 12 - $\phi 12$ One-touch fitting 01 - Rc1/8 Female thread 02 - Rc1/4 Female thread 03 - Rc3/8 Female thread	06 - $\phi 6$ One-touch fitting 10 - $\phi 10$ One-touch fitting 12 - $\phi 12$ One-touch fitting 16 - $\phi 16$ One-touch fitting 01 - Rc1/8 Female thread 02 - Rc1/4 Female thread 03 - Rc3/8 Female thread 04 - Rc1/2 Female thread	06 - $\phi 6$ One-touch fitting 08 - $\phi 8$ One-touch fitting 10 - $\phi 10$ One-touch fitting 12 - $\phi 12$ One-touch fitting 16 - $\phi 16$ One-touch fitting 01 - Rc1/8 Female thread 02 - Rc1/4 Female thread 03 - Rc3/8 Female thread 04 - Rc1/2 Female thread

Selection-Box type

Model/Shape BS	BL
AZH05BS-06-06	AZH05BL-06-06
AZH07BS-06-06	AZH07BL-06-06
AZH10BS-06-06	AZH10BL-06-06
AZH13BS-08-10	AZH13BL-08-10
AZH05BS-01-01	AZH05BL-01-01
AZH07BS-01-01	AZH07BL-01-01
AZH10BS-01-01	AZH10BL-01-01
AZH13BS-01-02	AZH13BL-01-02

Selection-Body ported type

Model/Shape DS	DL
AZH05DS-06-06-06	AZH05DL-06-06-06
AZH07DS-06-06-06	AZH07DL-06-06-06
AZH10DS-06-06-08	AZH10DL-06-06-08
AZH13DS-08-10-10	AZH13DL-08-10-10
AZH15DS-10-12-12	AZH15DL-10-12-12
AZH18DS-12-12-12	AZH18DL-12-12-12
AZH20DS-12-16-16	AZH20DL-12-16-16
AZH05DS-01-01-01	AZH05DL-01-01-01
AZH07DS-01-01-01	AZH07DL-01-01-01
AZH10DS-01-01-01	AZH10DL-01-01-01
AZH13DS-01-02-02	AZH13DL-01-02-02
AZH15DS-02-03-03	AZH15DL-02-03-03
AZH18DS-03-03-03	AZH18DL-03-03-03
AZH20DS-03-04-04	AZH20DL-03-04-04

Technical parameters

Model	Rated air supply pressure 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)		
		S	L	S	L					Air supply port S	Vacuum port V	Exhaust port E
AZH05B	4.5	88	48	5	9	13.5	68	5~50	28	φ6	φ6	-
AZH07B	4.5	88	48	12	22	23.5	68	5~50	28	φ6	φ6	-
AZH10B	4.5	88	48	24	34	46.0	72	5~50	33	φ6	φ6	-
AZH13B	4.5	88	48	40	75	78.0	72	5~50	66	φ8	φ10	-

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Technical parameters

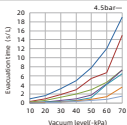
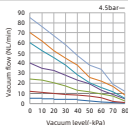
Model	Rated air supply pressure bar	Max. vacuum level -kPa		Max. vacuum flow NL/min		Air consumption NL/min	Noise level dB(A)	Working temperature °C	Weight g	Recommended hose dia.(mm)		
		S	L	S	L					Air supply port S	Vacuum port V	Exhaust port E
AZH05D	4.5	88	48	7.5	9	13.5	75	5-50	11	φ6	φ6	φ6
AZH07D	4.5	88	48	12	22	23.5	75	5-50	12	φ6	φ6	φ6
AZH10D	4.5	88	48	24	34	46.0	68	5-50	16	φ6	φ6	φ8
AZH13D	4.5	88	48	40	75	78.0	68	5-50	27	φ8	φ10	φ10
AZH15D	4.5	88	53	60	80	97.0	72	5-50	43	φ10	φ12	φ12
AZH18D	4.5	88	53	70	110	150.0	72	5-50	55	φ12	φ12	φ12
AZH20D	4.5	88	53	85	140	185.0	75	5-50	95	φ12	φ16	φ16

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

Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	50	60	70	80	Max. vacuum level -kPa
AZH05S	4.5	13.5	5.0	4.5	4.1	3.8	3.3	2.3	1.6	0.9	0.3	88
AZH07S	4.5	23.5	12.0	11.0	10.0	9.0	8.0	7.0	5.5	2.1	0.8	88
AZH10S	4.5	46.0	24.0	23.0	20.5	17.5	13.0	11.5	9.5	7.0	2.5	88
AZH13S	4.5	78.0	40.0	35.0	32.5	28.0	23.0	19.5	13.0	9.0	4.5	88
AZH15S	4.5	97.0	60.0	52.5	45.5	38.0	28.5	20.5	15.5	11.5	5.0	88
AZH18S	4.5	150.0	70.0	62.0	52.0	45.0	38.0	26.0	22.0	16.5	8.5	88
AZH20S	4.5	185.0	85.0	76.0	67.0	58.0	47.5	38.0	33.5	19.0	12.0	88

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

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	50	60	70	Max. vacuum level -kPa
AZH05S	4.5	13.5	0.89	1.70	3.20	5.00	7.80	12.00	19.00	88
AZH07S	4.5	23.5	0.37	1.00	1.90	3.00	5.40	6.70	15.00	88
AZH10S	4.5	46.0	0.25	0.60	1.25	2.00	2.90	4.60	7.30	88
AZH13S	4.5	78.0	0.10	0.27	0.53	1.00	1.75	4.20	7.30	88
AZH15S	4.5	97.0	0.04	0.21	0.35	0.63	1.23	4.10	6.50	88
AZH18S	4.5	150.0	0.02	0.15	0.29	0.46	0.78	1.38	3.51	88
AZH20S	4.5	185.0	0.02	0.12	0.21	0.34	0.55	0.85	1.58	88



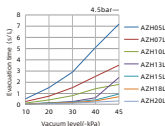
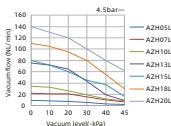
Vacuum flow(NL/min) at different vacuum levels(-kPa)

Model	Air supply pressure bar	Air consumption NL/min	0	10	20	30	40	45	Max. vacuum level -kPa
AZH05L	4.5	13.5	9.0	8.0	7.0	6.0	3.0	1.9	48
AZH07L	4.5	23.5	22.0	21.0	20.5	15.5	10.5	6.8	48
AZH10L	4.5	46.0	34.0	32.0	26.0	19.0	12.0	8.0	48
AZH13L	4.5	78.0	75.0	72.0	65.0	43.0	19.0	9.0	48
AZH15L	4.5	97.0	80.0	72.0	60.0	45.0	36.5	16.0	53
AZH18L	4.5	150.0	110.0	105.0	95.0	80.0	55.0	30.0	53
AZH20L	4.5	185.0	140.0	130.0	120.0	100.0	80.0	62.0	53

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

Model	Air supply pressure bar	Air consumption NL/min	10	20	30	40	45	Max. vacuum level -kPa
AZH05L	4.5	13.5	0.49	1.50	2.90	5.10	7.20	48
AZH07L	4.5	23.5	0.28	0.75	1.50	2.50	3.50	48
AZH10L	4.5	46.0	0.14	0.40	0.81	1.40	1.80	48
AZH13L	4.5	78.0	0.04	0.12	0.24	0.62	2.40	48
AZH15L	4.5	97.0	0.03	0.15	0.23	0.40	0.92	53
AZH18L	4.5	150.0	0.02	0.10	0.18	0.32	0.67	53
AZH20L	4.5	185.0	0.01	0.08	0.14	0.20	0.30	53

Technical parameters

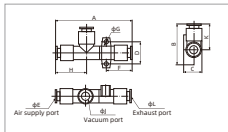


AZH Series

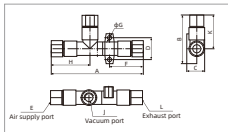
Basic Vacuum Generator

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Dimensions(mm)



AZH - D Body ported type(One-touch fitting)



AZH - D Body ported type(Female thread connection)

Model/Size	A	B	C	D	E	F	G	H	L	K	J
AZH05D5-06-06-06	58.5	34.0	14.2	17.0	6	21.0	3.2	24.0	6	22.0	6
AZH07D5-06-06-06	61.0	34.0	14.2	17.0	6	22.0	3.2	24.0	6	22.0	6
AZH10D5-06-06-08	66.0	37.0	17.2	20.0	6	24.5	4.2	26.0	8	23.0	6
AZH10DL-06-06-08	70.0	37.0	17.2	20.0	6	24.5	4.2	26.0	8	23.0	6
AZH13D5-08-10-10	74.0	42.5	20.0	22.0	8	27.0	4.2	28.0	10	27.5	10
AZH13DL-08-10-10	79.5	42.5	20.0	22.0	8	27.0	4.2	28.0	10	27.5	10
AZH15D5-10-12-12	93.3	47.0	22.5	27.0	10	32.8	4.2	31.5	12	29.5	12
AZH18D5-12-12-12	114.0	41.0	21.0	10.0	12	50.0	3.5	35.5	12	30.5	12
AZH20D5-12-16-16	124.6	46.0	27.0	12.0	12	54.3	3.5	38.5	16	32.7	16

AZH - D Body ported type(One-touch fitting)

Model/Size	A	B	C	D	E	F	G	H	L	K	J
AZH05D5-01-01-01	73.5	41.5	14.2	17.0	Rc1/8	28.5	3.2	31.5	Rc1/8	29.5	Rc1/8
AZH07D5-01-01-01	76.0	41.5	14.2	17.0	Rc1/8	29.5	3.2	31.5	Rc1/8	29.5	Rc1/8
AZH10D5-01-01-01	82.0	44.5	17.2	20.0	Rc1/8	33.0	4.2	33.5	Rc1/8	30.5	Rc1/8
AZH10DL-01-01-01	86.0	44.5	17.2	20.0	Rc1/8	33.0	4.2	33.5	Rc1/8	30.5	Rc1/8
AZH13D5-01-02-02	94.5	54.0	20.0	22.0	Rc1/8	38.5	4.2	36.5	Rc1/4	39.0	Rc1/4
AZH13DL-01-02-02	99.5	54.0	20.0	22.0	Rc1/8	38.5	4.2	36.5	Rc1/4	39.0	Rc1/4
AZH15D5-02-03-03	116.5	58.5	22.5	27.0	Rc1/4	44.5	4.2	43.0	Rc3/8	41.0	Rc3/8
AZH18D5-03-03-03	133.0	52.5	21.0	10.0	Rc3/8	57.5	3.5	47.0	Rc3/8	42.0	Rc3/8
AZH20D5-03-04-04	151.0	61.0	27.0	12.0	Rc3/8	69.3	3.5	50.0	Rc1/2	47.7	Rc1/2

AZH - D Body ported type(Female thread connection)

Vacuum Generator

AZK

AZQ

AZX

AZD

AGS

AGB

AGP

AGK

AGE

ABH/ABK

ABHAB

AMC

ABH/ABK

ABH/ABK

ABH/ABK

ABH/ABK

AZW

AZR

ABT

ABP

ABQ

AEVC

AZL

ALH

AZH

AZU

ACV

ASBP

ALS

ACP

ACPF

ACPS

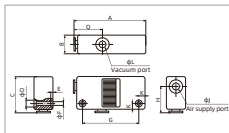
APB

AZH Series

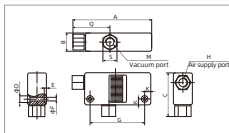
Basic Vacuum Generator

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Dimensions(mm)



AZH - B Box type(One-touch fitting)



AZH - B Box type(Female thread connection)

Model/Size	A	B	C	D	E	F	G	H	Q	L	K	J
AZH05B-06-06	60	16	31	5.8	2	3.2	47	22	24	6	5	6
AZH07B-06-06	60	16	31	5.8	2	3.2	47	22	24	6	5	6
AZH10B-06-06	63	18	32	5.8	2	3.2	50	23	26	6	5	6
AZH13B-08-10	78	23	38.5	7.5	3	4.2	61	27.5	28	10	7	8

AZH - B Box type(One-touch fitting)

Model/Size	A	B	C	D	E	F	G	H	Q	M	K	S
AZH05B-01-01	68	16	39	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH07B-01-01	68	16	39	5.8	2	3.2	47	Rc1/8	31.5	Rc1/8	5	12
AZH10B-01-01	71	18	40	5.8	2	3.2	50	Rc1/8	33.5	Rc1/8	5	12
AZH13B-01-02	86.5	23	50	7.5	3	4.2	61	Rc1/8	36.5	Rc1/4	7	14

AZH - B Box type(Female thread connection)