Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

NGDOLAOV AM25L-AM150L Series

NGDOLAOV Multi-Stage Vacuum Generator User Manual

Models: AM25L, AM50L, AM75L, AM100L, AM125L, AM150L

1. Introduction

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your NGDOLAOV Multi-Stage Vacuum Generator. Please read this manual thoroughly before using the product and retain it for future reference. These vacuum generators are designed for various industrial applications requiring reliable vacuum generation.

2. Safety Information

Always observe general safety precautions when working with pneumatic equipment. Ensure that the air supply is disconnected before performing any maintenance or installation. Use appropriate personal protective equipment (PPE). Do not exceed the maximum operating pressure or temperature specified for the unit. Ensure all connections are secure to prevent air leaks or accidental disconnections.

3. Product Overview and Dimensions

The NGDOLAOV Multi-Stage Vacuum Generator series offers various models (AM25L to AM150L) designed for efficient vacuum generation. Key components include the air supply inlet, vacuum port, exhaust port, and an integrated vacuum gauge for monitoring. An external silencer is also part of the assembly for noise reduction.



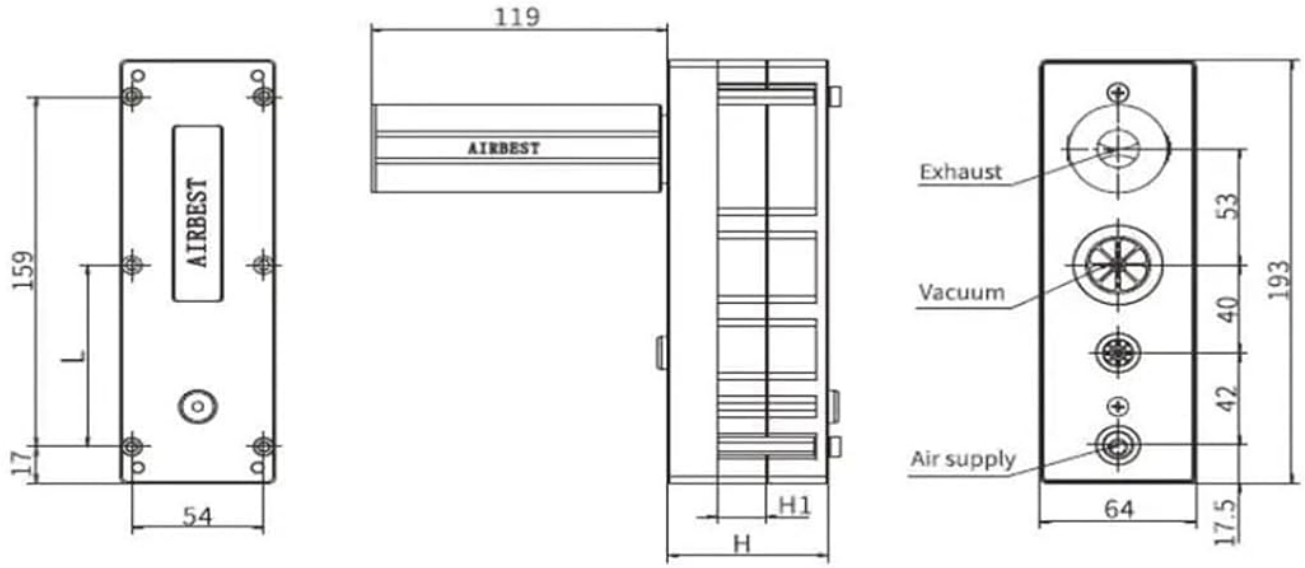
Figure 1: Overall dimensions and key specifications of the NGDOLAOV Multi-Stage Vacuum Generator. This image displays the generator with an external silencer, vacuum gauge, and various connection points. Dimensions are provided in millimeters: overall height 184mm, silencer height 119mm, width 193mm, main body height 45mm, and vacuum gauge height 64mm. Connection sizes are G1/8 (8.5mm) for the vacuum gauge and G1/4 (11mm) for the air supply. The image also indicates a working temperature range of -10 to 80 °C, a unit weight of 837g, and a maximum vacuum flow of 760 NL/min for the AM75L-AD-N model, which is part of the AM-Basic type (-92kPa) series.

AM150L	6.0	89	1,500	810	810	82	12	32
AL25	6.0	81	360	105	105	81	8	19
AL50	6.0	81	640	215	215	81	10	19
AL75	6.0	81	850	320	320	81	10	25
AL100	6.0	81	990	390	390	82	10	25
AL125	6.0	81	1,170	480	480	82	12	32
AL150	6.0	81	1,230	620	620	81	12	32
AH40	6.0	99.8	150	155	155	81	10	19
AH120	6.0	100.8	530	440	440	81	12	19

Store NO.912496221

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	90	Max. vacuun level (-kPa)
AM25L	3.4	116	360	180	115	80	43	30	22.5	15.5	7.5	21.2	92
AM50L	3.4	230	600	320	250	135	75	60	46	30	13	1.5	92
AM75L	3.4	365	760	445	340	175	110	85	70	43	20	1.8	92
AM100L	3.4	445	850	550	430	280	145	115	85	60	28	2.2	92
AM125L	3.4	545	1,150	760	530	350	180	148	115	78	34.5	3.5	92
AM150L	3.4	655	1,200	830	550	360	215	170	130	90	36	5	92
AM25L	6.0	185	420	240	125	100	82	65	38	12.5	3.5	-	89
AM50L	6.0	370	700	510	290	195	160	115	70	22	8	-	89
AM75L	6.0	610	950	710	380	285	230	170	100	32	11	-	89
AM100L	6.0	720	1,010	800	460	385	310	215	125	42	15.5	-	89
AM125L	6.0	780	1,400	1,120	560	490	355	260	150	50	25	-	89
AM150L	6.0	810	1,500	1,110	630	560	385	315	210	65	26	-	89



Model/Size	H	H1	L
AM25-50L	45	-	-
AL25-50	45	-	-
AH40	45	-	-
AM75-100L	65	20	-
AL75-100	65	20	-
AH120	65	20	-
AM125-150L	85	40	82.7
AL125-150	85	40	82.7

Figure 2: Detailed technical drawings and dimensions for different NGDOLAOV vacuum generator models. This image includes three diagrams showing top, side, and front views of the vacuum generator, highlighting the air supply, vacuum, and exhaust ports. A table below provides specific 'H', 'H1', and 'L' dimensions for models AM25L-50L, AL25-50, AH40, AM75-100L, AL75-100, AH120, AM125-150L, and AL125-150. For example, AM75-100L has an 'H' dimension of 65 and an 'H1' dimension of 20.

4. Installation and Setup

Proper installation is crucial for optimal performance and longevity of the vacuum generator. Refer to the technical drawings for specific connection points and dimensions.

1. **Mounting:** Securely mount the vacuum generator in a stable position, ensuring adequate space for connections and maintenance.
2. **Air Supply Connection:** Connect a clean, dry, and regulated compressed air supply to the designated air inlet port (typically G1/4, 11mm). Ensure the air supply pressure is within the specified range for your model (refer to the 'Technical parameters' table).
3. **Vacuum Port Connection:** Connect the vacuum line from your application to the vacuum port. The connection type and size will vary by model (e.g., G3/4, NPT3/4).
4. **Exhaust Port:** The exhaust port, often equipped with a silencer, should be clear of obstructions.
5. **Vacuum Gauge:** The integrated vacuum gauge (G1/8, 8.5mm) provides real-time vacuum level monitoring.

5. Operation

Once installed, the vacuum generator operates by converting compressed air into a vacuum. The performance characteristics vary by model and are detailed in the specifications tables.

1. **Initial Start-up:** Gradually increase the air supply pressure to the recommended level. Observe the vacuum gauge to confirm vacuum generation.
2. **Monitoring:** Regularly monitor the vacuum level via the integrated gauge.
3. **Shut-down:** To stop operation, cut off the compressed air supply.

6. Specifications

The following tables provide detailed technical specifications for the NGDOLAOV Multi-Stage Vacuum Generators.

PARAMETER DESCRIPTION

More specifications available

How to order

Store NO.912496221

① Series	② Specification	③ Connectio plate	④ Sealing material	⑤ Non-return valve	⑥ Control device
AM - Universal type (-92kPa)	25L 50L 75L 100L 125L 150L	D B AD E (Refer to table 1)	N - NBR E - EPDM F - Fluorine rubber	Nil - Standard, without non-return valve A - With non-return valve	Nil - Standard,without control device PD - Electric control air supply PQ - Pneumatic control air supply VD - Eletric control vacuum breaking VQ - Pneumatic control vacuum breaking PVD - Electic control(air supply+ vacuum breaking) Combination PVQ - Pneumatic control(air supply+ vacuum breaking) Combination ES - Energy-saving system
AL - Flow type (-81kPa)	25 50 75 100 125 150				
AH - High vacuum level type (-100.8kPa)	40 120				

Connection plate table 1

Model	Specification	Connection plate	Air supply (1)	Vacuum (2)	Vacuum (2)	Connection plate material
AM	25-100	D	NPSF1/8	G3/4	G3/4	PPS
AL		B	NPSF1/8	NPT3/4	NPT3/4	PPS
		AD	G1/4	G3/4	G3/4	Aluminum alloy
		E	NPT1/4	NPT3/4	NPT3/4	Aluminum alloy
AM	125-150	D	G1/4	G1"	G1"	PPS
AL		B	NPT1/4	NPT"1	NPT"1	PPS
		AD	G1/4	G1"	G1"	Aluminum alloy
		E	NPT1/4	NPT1"	NPT1"	Aluminum alloy
AH	40-120	D	NPSF1/8	G3/4	G3/4	PPS
		B	NPSF1/8	NPT3/4	NPT3/4	PPS
		AD	G1/4	G3/4	G3/4	Aluminum alloy
		E	NPT1/4	NPT3/4	NPT3/4	Aluminum alloy

Technical parameters

Model	Air supply pressure(bar)	Max. vacuum level (-kPa)	Max.vacuum flow(NL/min)	Max. air consumption (NL/min)	Max. air consumption (NL/min)	Noise level (dB(A))	Recommended hose dia.(mm)	
							(Hose outer dia.)Air supply	(Wired hose inner dia.)Vacuum
AM25L	3.4	92	360	116	116	80	8	19
AM50L	3.4	92	600	230	230	81	10	19
AM75L	3.4	92	760	365	365	81	10	25
AM100L	3.4	92	850	445	445	81	10	25
AM125L	3.4	92	1,150	545	545	82	12	32
AM150L	3.4	92	1,200	655	655	82	12	32
AM25L	6.0	89	420	185	185	80	8	19
AM50L	6.0	89	700	370	370	81	10	19
AM75L	6.0	89	950	610	610	81	10	25
AM100L	6.0	89	1,010	720	720	81	10	25
AM125L	6.0	89	1,400	780	780	82	12	32

Figure 3: Parameter description, connection plate table, and technical parameters for NGDOLAOV vacuum generators. This image contains three tables:

- **Parameter Description:** Details series (AM, AL, AH), flow type, connection plate (A, B, D, E), sealing material (N-NBR, E-EPDM, F-Fluorine rubber), non-return valve options (Nil-Standard, A-With non-return valve), and control device options (Nil-Standard, PQ-Pneumatic control air supply, VD-Electric control vacuum breaking, VQ-Pneumatic control vacuum breaking, PVD-Electric control air supply + vacuum breaking, PVQ-Pneumatic control air supply + vacuum breaking, ES-Energy-saving system).
- **Connection plate table 1:** Specifies connection plate types (A, B, D, E) and corresponding air supply, vacuum (1), vacuum (2), and connection plate material for various models (AM, AL, AH) and flow ranges (25-100, 125-150, 40-120).

- **Technical parameters:** Lists models (AM25L to AM150L, AL25L to AL150L, AH40, AH120) with their air supply pressure (bar), max vacuum level (-kPa), max vacuum flow (NL/min), max air consumption (NL/min), noise level (dB(A)), recommended hose dia. (mm) for air supply and inner hose dia. (mm) for vacuum.

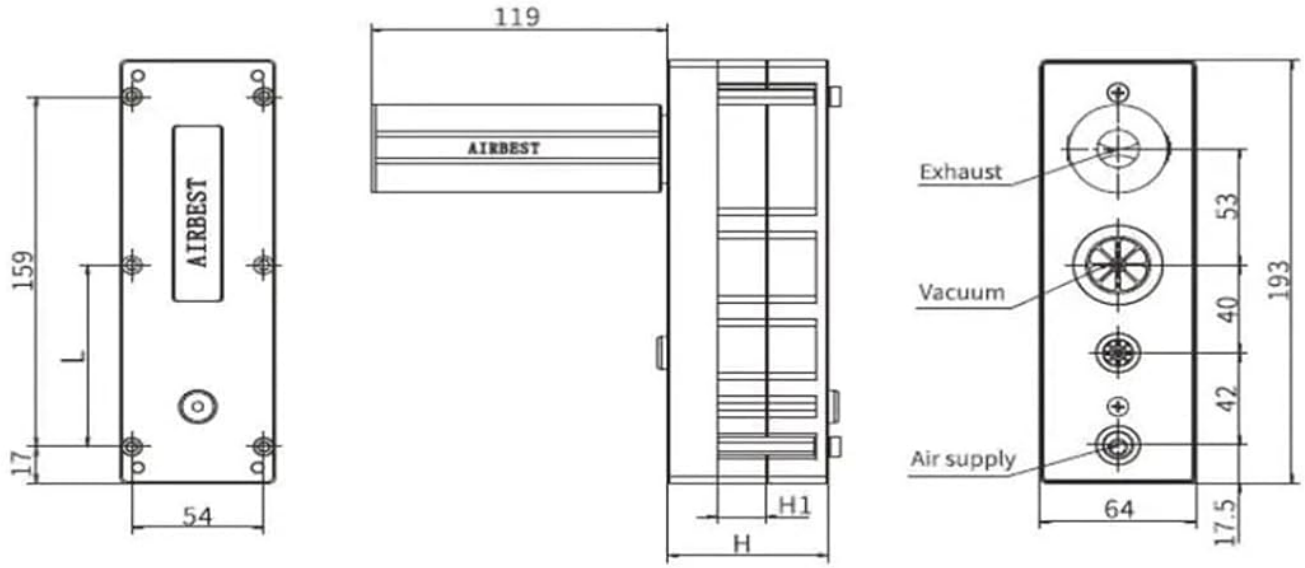
Vacuum Flow at Different Vacuum Levels

AM150L	6.0	89	1,500	810	810	82	12	32
AL25	6.0	81	360	105	105	81	8	19
AL50	6.0	81	640	215	215	81	10	19
AL75	6.0	81	850	320	320	81	10	25
AL100	6.0	81	990	390	390	82	10	25
AL125	6.0	81	1,170	480	480	82	12	32
AL150	6.0	81	1,230	620	620	81	12	32
AH40	6.0	99.8	150	155	155	81	10	19
AH120	6.0	100.8	530	440	440	81	12	19

Store NO.912496221

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	90	Max. vacuun level (-kPa)
AM25L	3.4	116	360	180	115	80	43	30	22.5	15.5	7.5	21.2	92
AM50L	3.4	230	600	320	250	135	75	60	46	30	13	1.5	92
AM75L	3.4	365	760	445	340	175	110	85	70	43	20	1.8	92
AM100L	3.4	445	850	550	430	280	145	115	85	60	28	2.2	92
AM125L	3.4	545	1,150	760	530	350	180	148	115	78	34.5	3.5	92
AM150L	3.4	655	1,200	830	550	360	215	170	130	90	36	5	92
AM25L	6.0	185	420	240	125	100	82	65	38	12.5	3.5	-	89
AM50L	6.0	370	700	510	290	195	160	115	70	22	8	-	89
AM75L	6.0	610	950	710	380	285	230	170	100	32	11	-	89
AM100L	6.0	720	1,010	800	460	385	310	215	125	42	15.5	-	89
AM125L	6.0	780	1,400	1,120	560	490	355	260	150	50	25	-	89
AM150L	6.0	810	1,500	1,110	630	560	385	315	210	65	26	-	89



Model/Size	H	H1	L
AM25-50L	45	-	-
AL25-50	45	-	-
AH40	45	-	-
AM75-100L	65	20	-
AL75-100	65	20	-
AH120	65	20	-
AM125-150L	85	40	82.7
AL125-150	85	40	82.7

Figure 4: Vacuum flow (NL/min) at different vacuum levels (-kPa) for various NGDOLAOV models. This table provides detailed performance data, showing the vacuum flow rate for models AM25L through AM150L at air supply pressures of 3.4 bar and 6.0 bar, across vacuum levels ranging from 0 kPa to 90 kPa. For example, AM75L at 6.0 bar air supply has a vacuum flow of 700 NL/min at 0 kPa and 22 NL/min at 80 kPa.

General Product Specifications

- **Package Dimensions:** 0.39 x 0.39 x 0.39 inches
- **Item Weight:** 1.76 ounces
- **Manufacturer:** NGDOLAOV
- **Assembly Required:** No
- **Number of Pieces:** 1

7. Maintenance

Regular maintenance ensures the longevity and consistent performance of your vacuum generator.

- **Air Quality:** Ensure the compressed air supply is clean and dry. Contaminants can reduce efficiency and damage internal components.
- **Filter Inspection:** If an inline air filter is used, inspect and replace it regularly according to the filter manufacturer's recommendations.
- **Leak Checks:** Periodically check all pneumatic connections for leaks. Leaks can significantly reduce vacuum performance.
- **Cleaning:** Keep the exterior of the unit clean. Avoid using harsh chemicals that could damage the housing.

8. Troubleshooting

If you encounter issues with your vacuum generator, consider the following common troubleshooting steps:

- **No Vacuum or Low Vacuum:**
  - Check air supply pressure: Ensure it meets the recommended range.
  - Check for leaks: Inspect all vacuum and air supply connections.
  - Verify air quality: Ensure the air supply is clean and dry.
  - Check for obstructions: Ensure the exhaust port is clear.
- **Excessive Noise:**
  - Ensure the silencer is properly installed and not damaged.
  - Check for loose connections or mounting.

If problems persist after attempting these steps, please contact customer support.

9. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase. When contacting support, please have your product model number and purchase date available.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0F6NS9JNC

More documents and user manuals: **https://manuals.plus/**