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> CEMELI ZH10DL-06-06-06 Vacuum Pneumatic Ejector Instruction Manual

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CEMELI ZH10DL-06-06-06 Vacuum Pneumatic Ejector Instruction Manual

Model: ZH10DL-06-06-06 | Brand: CEMELI

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your CEMELI ZH10DL-06-06-06 Vacuum Pneumatic Ejector. Please read this manual thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the equipment:

- Ensure all connections are secure before applying air pressure.
- Do not exceed the maximum operating pressure specified in the technical data.
- Wear appropriate personal protective equipment (PPE) such as safety glasses.
- Disconnect air supply before performing any maintenance or adjustments.
- Do not modify the ejector. Use only original replacement parts if necessary.
- Operate in a well-ventilated area.

3. PRODUCT OVERVIEW AND COMPONENTS

The CEMELI ZH10DL-06-06-06 is a pneumatic vacuum ejector designed to generate negative pressure using compressed air. It features a compact design for various industrial applications.

ZH10DL

Type: **ZH10DL-06-06-08**

Large Flow Max. vacuum pressure: **-48kPa**
Max. suction flow rate: **34/min(ANR)**

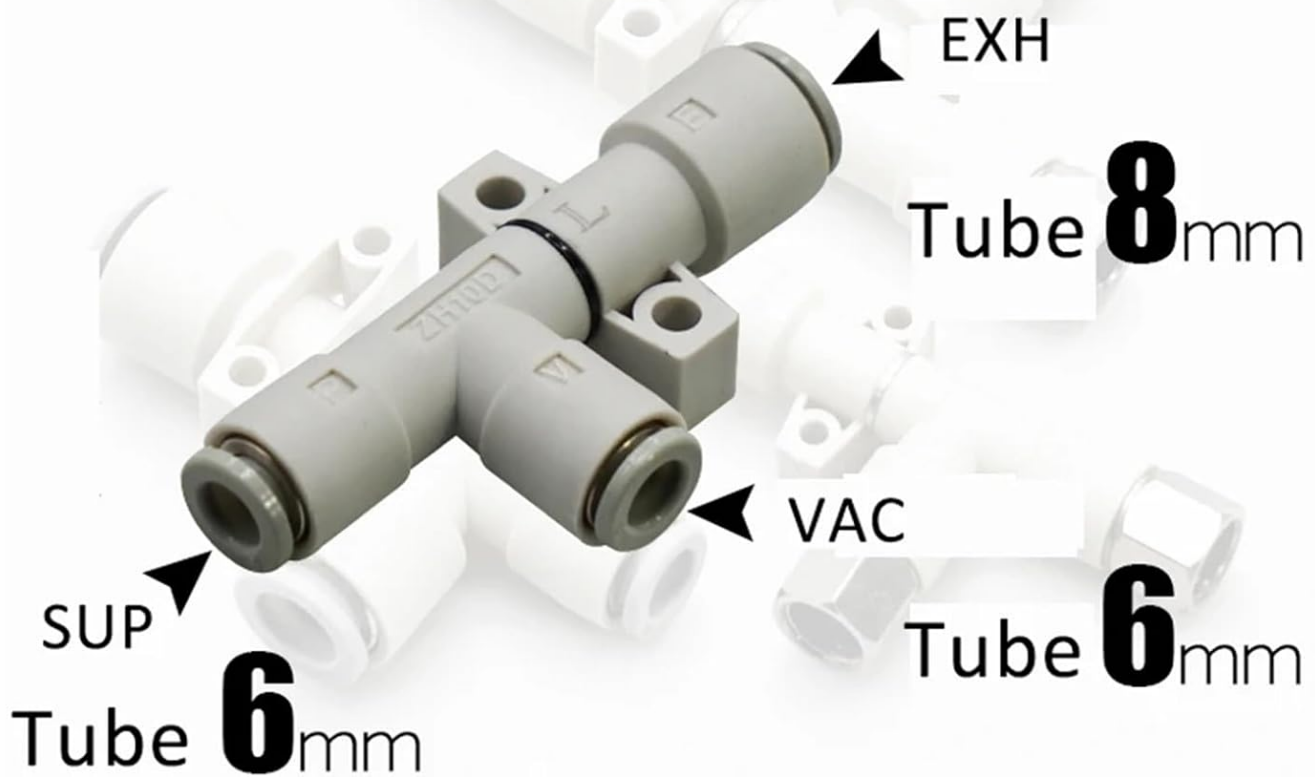


Figure 1: Diagram of the ZH10DL-06-06-08 Vacuum Pneumatic Ejector, showing the SUP (Supply), EXH (Exhaust), and VAC (Vacuum) ports with their respective tube sizes (6mm and 8mm). It also indicates a maximum vacuum pressure of -48kPa and a maximum suction flow rate of 34 L/min (ANR).

Key components and their functions:

- **SUP Port:** Compressed air supply inlet.
- **EXH Port:** Exhaust outlet for compressed air.
- **VAC Port:** Vacuum port for connection to the object or system requiring vacuum.
- **Ejector Body:** Houses the internal mechanism for vacuum generation.

4. SPECIFICATIONS

Parameter	Value
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Parameter	Value
Model	ZH10DL-06-06-06
Type	Pneumatic Vacuum Ejector
Max. Vacuum Pressure	-48 kPa
Max. Suction Flow Rate	34 L/min (ANR)
Supply Port Tube Size (SUP)	6 mm
Vacuum Port Tube Size (VAC)	6 mm
Exhaust Port Tube Size (EXH)	8 mm
Weight	50 Grams
Brand	CEMELI

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the vacuum ejector:

- Mounting:** Securely mount the ejector in a stable position using appropriate fasteners. Ensure there is sufficient space for tube connections and maintenance.
- Air Supply Connection (SUP):** Connect a clean, dry compressed air supply line to the SUP port. Ensure the tube size matches the ejector's specification (6mm for this model).
- Vacuum Line Connection (VAC):** Connect the vacuum line from the object or system to be evacuated to the VAC port. Ensure the tube size matches (6mm for this model).
- Exhaust Line Connection (EXH):** Connect an exhaust line to the EXH port. This port expels the compressed air after it has passed through the ejector. Ensure the tube size matches (8mm for this model). It is recommended to direct the exhaust away from the work area or use a silencer if noise is a concern.
- Leak Check:** After all connections are made, apply low air pressure and check for any leaks using a soapy water solution or a leak detector. Tighten connections as needed.



Figure 2: A view of the CEMELI ZH10DL-06-06-06 Vacuum Pneumatic Ejector, showing its compact design and quick-connect fittings for pneumatic tubing.

6. OPERATING INSTRUCTIONS

To operate the CEMELI ZH10DL-06-06 Vacuum Pneumatic Ejector:

1. **Ensure Proper Connections:** Verify that all air supply, vacuum, and exhaust lines are correctly and securely connected as described in the "Setup and Installation" section.
2. **Apply Compressed Air:** Gradually open the valve for the compressed air supply. The ejector will begin to generate vacuum at the VAC port.
3. **Monitor Vacuum Level:** If a vacuum gauge is installed in the system, monitor the vacuum level to ensure it meets the application requirements. The maximum vacuum pressure for this model is -48kPa.
4. **Shut Down:** To stop operation, close the compressed air supply valve. The vacuum will dissipate.

For optimal performance, ensure the compressed air supply is regulated to the recommended operating pressure (typically 0.4-0.6 MPa, though not explicitly stated in provided data, it's a common range for such devices).

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your vacuum ejector.

- **Daily:** Check for any visible damage, loose connections, or air leaks.
- **Weekly/Monthly:**
 - Inspect air filters in the supply line for contamination and clean or replace as necessary. Contaminated air can reduce ejector performance.
 - Ensure the exhaust port is clear of obstructions.
- **Cleaning:** Clean the exterior of the ejector with a soft, damp cloth. Do not use harsh chemicals or solvents.
- **Disassembly:** Do not attempt to disassemble the ejector unless you are a qualified technician. Improper reassembly can lead to malfunction or damage.

8. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
No vacuum or low vacuum	Insufficient air supply pressure Air leaks in the vacuum system or connections Clogged air filter in supply line Obstructed exhaust port Ejector nozzle clogged	Check and adjust air supply pressure. Inspect all connections and vacuum lines for leaks; tighten or repair as needed. Clean or replace the air filter. Clear any obstructions from the exhaust port. Consult a qualified technician for internal cleaning or replacement.
Excessive air consumption	Air leaks in the vacuum system Incorrect operating pressure	Check for and repair leaks. Adjust air supply pressure to the recommended range.

Problem	Possible Cause	Solution
Unusual noise during operation	Loose components Internal damage	Check for and tighten any loose fittings or mounting hardware. Discontinue use and contact support.

9. WARRANTY AND SUPPORT

CEMELI products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or contact your supplier. For technical support or inquiries, please reach out to your product vendor or CEMELI customer service.

Note: Warranty may be voided if the product is misused, modified, or not maintained according to the instructions in this manual.

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