DEWALT DXVCS003

DEWALT DXVCS003 Dust Separator Instruction Manual

Model: DXVCS003

1. Introduction

Thank you for choosing the DEWALT DXVCS003 Dust Separator. This manual provides essential information for the safe and efficient operation of your new dust collection accessory. The DXVCS003 is designed to enhance the performance of your wet/dry vacuum by separating up to 99.5% of debris from the airstream before it reaches your vacuum's filter. This process significantly extends filter life, maintains consistent suction, and improves overall cleaning efficiency.

The unit features a durable 10-gallon stainless steel tank and is compatible with 1-7/8 inch to 2-1/2 inch hoses, making it adaptable for various shop vacuum models and applications. Its practical design allows for easy assembly, storage, and mobility with four smooth-rolling casters.





Image 1.1: DEWALT DXVCS003 Dust Separator, showcasing its stainless steel tank and cyclone unit.

2. Safety Information

Always observe basic safety precautions when using this product to reduce the risk of fire, electric shock, or injury. This dust separator is an accessory and relies on a separate wet/dry vacuum for operation. Refer to your wet/dry vacuum's instruction manual for its specific safety guidelines.

- **Read all instructions:** Before assembly or operation, read and understand all instructions in this manual and your wet/dry vacuum manual.
- **Personal Protective Equipment:** Always wear appropriate personal protective equipment (PPE) such as safety glasses, hearing protection, and a dust mask, especially when working with fine dust.
- **Stable Placement:** Ensure the dust separator is placed on a stable, level surface to prevent tipping during operation. The casters provide mobility but ensure stability when stationary.

- **Proper Connections:** Ensure all hose connections between the dust separator and the vacuum, and between the dust separator and the tool/work area, are secure to prevent leaks and maintain optimal performance.
- **Flammable Materials:** Do not use the dust separator or connected vacuum to collect flammable or combustible materials, hot ashes, or liquids.
- **Electrical Safety:** Ensure your wet/dry vacuum is properly grounded and used with an appropriate power source.
- **Children and Bystanders:** Keep children and bystanders away from the operating area.
- **Unplug Before Maintenance:** Always unplug the wet/dry vacuum from the power source before performing any assembly, cleaning, or maintenance on the dust separator.

3. Setup and Assembly

The DEWALT DXVCS003 Dust Separator is designed for straightforward assembly. Follow these steps to prepare your unit for use.

3.1 Package Contents

Verify that all components are present in the package:

- 1 x Dust Separator (Cyclone Unit)
- 1 x 7-foot Hose
- 2 x Hose Holders
- 1 x Lid (for the dust tank)
- 2 x Lid Sealing Strips
- 2 x Lid Latches
- 2 x Handles
- 1 x Dust Tank (10-gallon stainless steel)
- 1 x Wheel Bracket
- 4 x Caster Bushings
- 4 x Foot Supports
- Screws for assembly (various sizes)



Image 3.1: Visual representation of all components included in the DEWALT DXVCS003 package.

3.2 Assembly Steps

1. **Attach Casters:** Secure the four casters to the wheel bracket using the provided screws. Ensure they are firmly attached for stable mobility.
2. **Install Foot Supports:** Attach the four foot supports to the base of the dust tank.
3. **Assemble Lid:** Attach the lid latches and handles to the dust tank lid. Apply the lid sealing strips to ensure an airtight seal.
4. **Mount Cyclone Unit:** Securely attach the dust separator (cyclone unit) to the center of the lid using the designated screws.
5. **Connect Hoses:** Connect one end of the 7-foot hose to the inlet port of the dust separator. The other end will connect to your wet/dry vacuum.
6. **Attach Hose Holders:** Install the hose holders onto the dust tank for convenient storage of the hose when not in use.



Image 3.2: Exploded view illustrating the main components of the dust separator for assembly.



Image 3.3: Detail of the caster wheel bracket and assembly.

4. Operating Instructions

The DEWALT DXVCS003 Dust Separator works in conjunction with your wet/dry vacuum to provide efficient dust and debris collection. Follow these steps for proper operation.

4.1 Connecting to Your Wet/Dry Vacuum

1. **Vacuum Preparation:** Ensure your wet/dry vacuum is clean and its filter is in good condition. While the separator reduces filter clogging, a clean filter optimizes initial suction.
2. **Connect Separator to Vacuum:** Connect the 7-foot hose from the dust separator's outlet port to the inlet port of your wet/dry vacuum. Ensure a tight, secure fit. The separator is compatible with 1-7/8 inch to 2-1/2 inch hoses.
3. **Connect Tool/Accessory:** Attach your primary vacuum hose (from your wet/dry vacuum) to the inlet port of the dust separator. This is where debris will enter the system.



Image 4.1: Operational diagram showing the airflow path through the dust separator and wet/dry vacuum.

4.2 Operation

- **Power On:** Turn on your wet/dry vacuum. The dust separator does not require its own power source; it operates using the vacuum's suction.
- **Dust Collection:** Begin collecting dust and debris as you normally would with your wet/dry vacuum. The cyclone technology in the separator will create a vortex, causing heavier particles to fall into the 10-gallon stainless steel tank, while finer dust continues to the vacuum's filter.
- **Wet and Dry Applications:** The separator is suitable for both wet and dry applications. For wet collection, ensure your wet/dry vacuum is configured for wet use according to its manual.



Image 4.2: The dust separator configured for both dry and wet collection scenarios.



Image 4.3: Visual demonstration of how the dust separator prevents vacuum filter clogging.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your DEWALT DXVCS003 Dust Separator.

- **Empty Dust Tank:** Periodically check and empty the 10-gallon stainless steel dust tank. The frequency will depend on the amount and type of debris collected. Emptying the tank before it becomes full prevents loss of efficiency.
- **Clean Cyclone Unit:** If visible debris accumulates inside the cyclone unit, disconnect it from the tank and clean it. Use a brush or compressed air to remove any blockages.
- **Inspect Hoses:** Regularly inspect all hoses for cracks, punctures, or blockages. Replace damaged hoses to maintain suction and safety.
- **Check Seals:** Ensure the lid sealing strips are intact and providing an airtight seal between the lid and the tank. A poor seal can lead to suction loss.
- **Caster Maintenance:** Keep the casters clean and free of debris to ensure smooth mobility.

6. Troubleshooting

If you encounter issues with your dust separator, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Reduced Suction	◦ Full dust tank ◦ Hose blockage ◦ Loose hose connections ◦ Damaged lid seal ◦ Clogged cyclone unit	◦ Empty the dust tank. ◦ Check and clear all hoses for obstructions. ◦ Ensure all hose connections are tight. ◦ Inspect and replace lid sealing strips if damaged. ◦ Clean the cyclone unit.
Debris Reaching Vacuum Filter	◦ Loose connections ◦ Overfilled dust tank ◦ Cyclone unit blockage	◦ Verify all connections are airtight. ◦ Empty the dust tank more frequently. ◦ Clean the cyclone unit thoroughly.
Unit Tipping Over	◦ Uneven surface ◦ Excessive force during movement	◦ Place on a stable, level surface. ◦ Move the unit carefully, especially when full.

7. Specifications

Feature	Detail
Brand	DEWALT
Model Name	DXVCS003
Capacity	10 Gallons (Dust Tank)
Efficiency	Captures up to 99.5% of debris
Hose Compatibility	1-7/8" or 2-1/2" (48 or 64mm)
Hose Length (Included)	7 feet (2.1 meters)
Product Dimensions (L x W x H)	18" x 17" x 34.5"
Item Weight	16.27 pounds
Special Feature	Portable (with casters)
Filter Type	Cartridge (for connected vacuum, not included with separator)
Indoor/Outdoor Usage	Indoor



Image 7.1: Dimensions of the DEWALT DXVCS003 Dust Separator.

8. Warranty Information

The DEWALT DXVCS003 Dust Separator comes with a **3-year limited warranty** from the manufacturer and distributor. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact DEWALT customer support.

9. Support

For further assistance, technical support, or to inquire about replacement parts, please visit the official DEWALT website or contact their customer service department.

You can also visit the DEWALT Store on Amazon for product information and related accessories.

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