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VEVOR DC20004

VEVOR DC20004 2 HP Dust Collector Instruction Manual

Model: DC20004

Introduction

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your VEVOR DC20004 2 HP Dust Collector. The unit is designed to effectively absorb air and dust generated during woodworking and metal processing, utilizing a 3µm canister filter to capture 99% of particles. Its mobile design with casters ensures easy movement and portability, contributing to a cleaner and safer workspace.



Figure 1: VEVOR DC20004 2 HP Dust Collector in operation.

Important Safety Information

Read and understand all safety warnings and instructions before operating this dust collector. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

- **Electrical Safety:** Ensure the dust collector is connected to a properly grounded 120V power outlet. Do not operate in wet conditions. Inspect power cords for damage before each use.
- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection, hearing protection, and a dust mask when operating the dust collector or working in dusty environments.
- **Work Area Safety:** Keep the work area clean and well-lit. Do not operate in the presence of flammable liquids, gases, or dust. Keep children and bystanders away.
- **Proper Use:** Do not use the dust collector for vacuuming liquids, hot ashes, or hazardous materials. Ensure all connections are secure before operation.
- **Maintenance:** Disconnect power before performing any maintenance, cleaning, or filter changes.

Package Contents

Verify that all components are present upon unpacking:

- 1 x Dust Collector Unit (main assembly with motor and cyclone)
- 1 x 39 Gallon (147 L) Collection Bag
- 1 x 3µm Canister Filter
- 1 x Mobile Base with Casters
- 1 x 78.7 inch (2 m) Flexible Dust Extraction Hose
- 1 x Detachable Y-fitting (6-inch inlet with two 4-inch openings)
- Assembly Hardware (bolts, nuts, washers, clamps)
- Instruction Manual

Setup Instructions

Follow these steps to assemble your VEVOR DC20004 Dust Collector:

1. **Assemble the Mobile Base:** Attach the four swivel casters to the mobile base frame using the provided hardware. Ensure two of the casters are lockable and positioned for easy access.
2. **Mount the Main Unit:** Carefully lift and secure the main dust collector unit (motor and cyclone body) onto the assembled mobile base frame. Use the appropriate bolts and nuts to ensure a stable and secure attachment.
3. **Install the Filter and Collection Bag:** Attach the 3µm canister filter to the designated outlet on the main unit. Secure it with the provided clamps. Then, attach the 39-gallon plastic collection bag to the lower outlet of the cyclone, ensuring a tight seal with the quick-release levers and metal straps.
4. **Connect the Dust Hose:** Attach the flexible 78.7-inch (2m) dust extraction hose to the main inlet of the dust collector. If branching to multiple machines, attach the detachable Y-fitting to the inlet first, then connect individual 4-inch hoses to the Y-fitting.



Figure 2: Mobile base with swivel wheels and flexible hose connection.



Figure 3: Product dimensions for planning installation space.

Operating Instructions

Follow these guidelines for safe and effective operation:

- **Pre-Operation Checklist:** Before each use, ensure all hoses are securely connected, the collection bag is properly sealed and not full, and the filter is clean. Check for any obstructions in the inlet or hose.
- **Starting the Dust Collector:** Plug the unit into a grounded 120V power outlet. Turn the power switch to the 'ON' position. The 2 HP motor will generate a powerful 1167 CFM airflow.
- **Connecting to Woodworking Tools:** Position the flexible hose near the dust port of your woodworking machine. The Y-fitting allows connection to one 6-inch port or two 4-inch ports simultaneously.
- **Monitoring Collection:** Periodically check the transparency of the collection bag to monitor its fill level. The vortex cone technology separates heavy chips into the lower bag, while finer dust goes to the filter.
- **Shutting Down:** After use, turn the power switch to the 'OFF' position and disconnect the unit from the power supply.



Figure 4: Illustration of the dust collector's suction power and motor specifications.



Figure 5: Vortex Cone Technology for efficient chip separation.

Maintenance

Regular maintenance ensures optimal performance and longevity of your dust collector. Always disconnect power before maintenance.

- **Emptying the Collection Bag:** Empty the 39-gallon collection bag regularly, especially when it appears full. The quick-release levers make this process easy. Dispose of collected dust and chips responsibly.
- **Cleaning the Canister Filter:** The 3µm canister filter should be cleaned periodically to maintain filtration effectiveness. Follow the manufacturer's instructions for cleaning or replacing the filter. A clogged filter will reduce suction power.
- **Inspecting Hoses and Connections:** Regularly check the flexible hose and all connections for wear, tears, or leaks. Repair or replace damaged components to prevent dust escape and maintain suction.
- **Motor Inspection:** Periodically inspect the motor for any unusual noises or excessive heat. Ensure the motor's

ventilation is not obstructed.

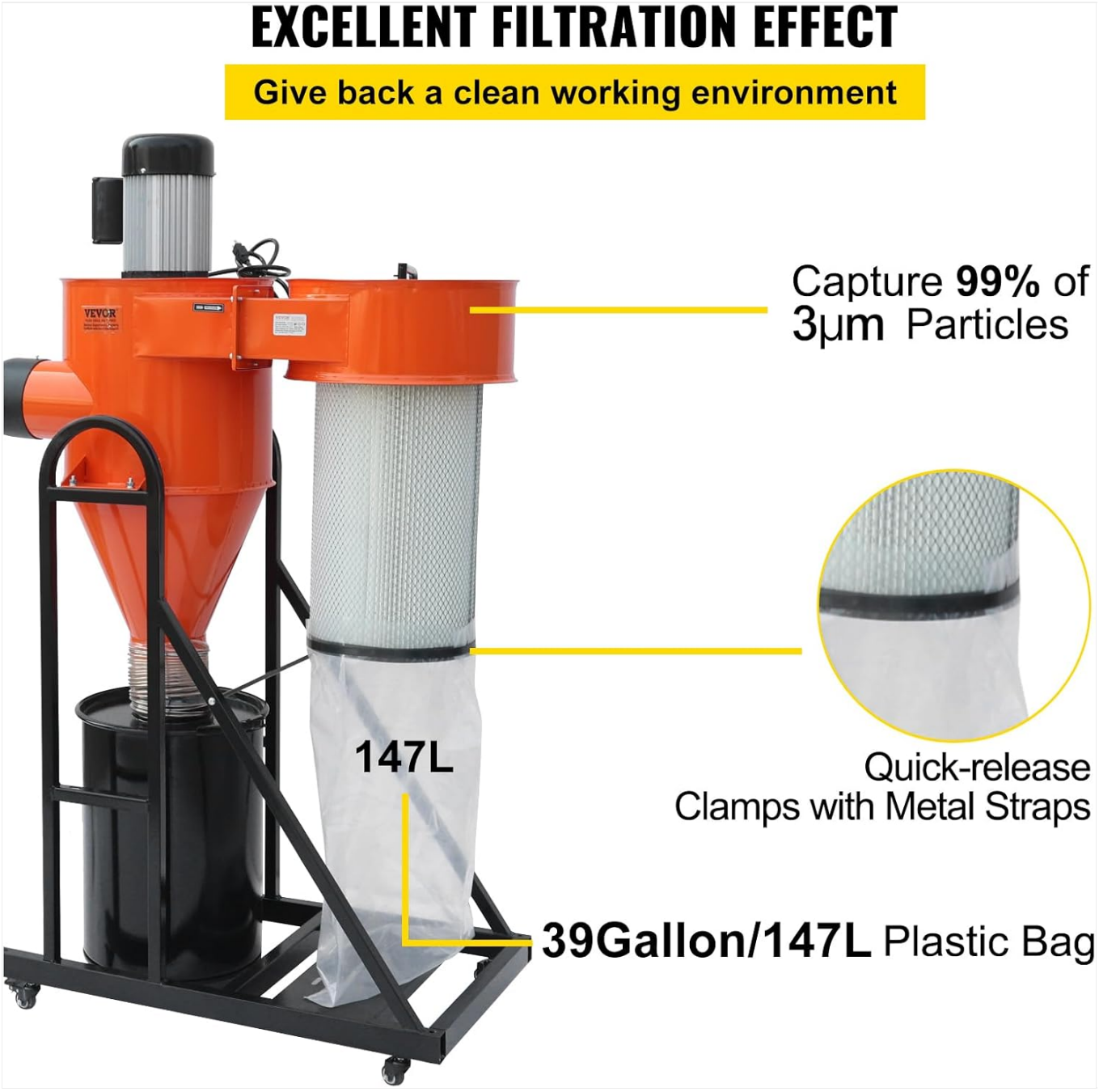

Figure 6: Canister filter and collection bag for effective dust capture.

TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Reduced Suction Power	• Collection bag is full. • Filter is clogged. • Hose or inlet is obstructed. • Hose or connection leak.	• Empty the collection bag. • Clean or replace the canister filter. • Clear any obstructions from the hose or inlet. • Inspect and seal all hose connections.

Problem	Possible Cause	Solution
Excessive Noise	• Loose components. • Motor issue. • Foreign object in impeller.	• Check and tighten all fasteners. • If motor noise persists, contact support. • Disconnect power and inspect impeller for debris.
Dust Leakage	• Collection bag or filter not sealed properly. • Damage to housing or hose.	• Ensure collection bag and filter are securely attached and sealed. • Inspect the unit's housing and hoses for cracks or holes and repair as needed.

Specifications

- **Model:** DC20004
- **Motor:** 2 HP
- **Airflow Capacity:** 1167 CFM
- **Collection Bag Capacity:** 39 Gallon (147 L)
- **Filter Rating:** 3μm
- **Motor Speed:** 3400 RPM
- **Voltage:** 120V
- **Sound Rating:** ≤85dB
- **Product Dimensions (L x W x H):** 37.4 x 21.65 x 64.96 inches (950 x 550 x 1650 mm)
- **Item Weight:** 142 pounds
- **Inlet Diameter:** 6-inch (with detachable Y-fitting for two 4-inch openings)
- **Flexible Hose Length:** 78.7 inches (2 m)

Warranty and Support

VEVOR products are designed for durability and performance. This product comes with a manufacturer's warranty against defects in materials and workmanship. Please refer to the warranty card included with your purchase for specific terms and conditions.
For technical assistance, parts, or warranty claims, please contact VEVOR customer support. Contact information can typically be found on the VEVOR official website or on your purchase documentation.

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