# BLUEROCK ® Tools

## OPERATION MANUAL V1.0

### VC-200 | INDUSTRIAL DUST EXTRACTOR

*Dual-Motor • Jet-Pulse Filter Cleaning • Continuous Bag System*


**READ AND UNDERSTAND THIS MANUAL BEFORE OPERATING THE MACHINE**

**Keep this manual for future reference**

## IMPORTANT SAFETY INFORMATION

| WARNING | Before using this equipment, read this entire manual and become familiar with the machine and its controls. Do not allow untrained or unauthorized persons, especially children, to operate the equipment. |
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### General Safety Rules

**WARNING:** Read and understand this entire manual before operating the BLUEROCK VC-200. Failure to follow the safety precautions and operating instructions may result in serious injury, electric shock, fire, hazardous dust exposure, or equipment damage.

- **Use only as intended.** The VC-200 is designed for the collection of dry dust and debris. Do not use the machine to collect liquids or materials that are burning, smoking, hot, flammable, combustible, explosive, or chemically reactive.
- **Allow only trained operators to use the machine.** Become familiar with the controls, operating procedures, and emergency shutdown procedure before use.
- **Inspect the machine before each use.** Check the power cord and plug, switches, vacuum hose and connections, filters, collection bag system, latches, seals, wheels, frame, and other accessible components. Do not operate the machine if any condition could affect safe operation.
- **Use a properly grounded electrical supply.** Connect the machine only to a grounded receptacle with voltage and frequency matching the machine rating plate. Never modify the plug or defeat the grounding connection.
- **Protect the power cord.** Do not operate the machine with a damaged cord or plug. Keep the cord away from heat, sharp edges, standing water, moving equipment, and areas where it may be crushed, cut, or driven over. Never pull or carry the machine by the cord.
- **Keep the machine dry.** Do not handle the plug or electrical controls with wet hands. Do not expose the machine to rain or use it for wet pickup.
- **Keep openings and moving components clear.** Keep hair, loose clothing, fingers, tools, and other objects away from suction openings and moving components. Do not operate the machine with blocked ventilation openings.
- **Never operate without the filtration and collection systems correctly installed.** The required filters, seals, and collection bag system must be installed, undamaged, and properly secured during operation.
- **Disconnect power before service.** Switch the machine OFF and unplug it before cleaning, servicing, changing filters or collection bags, clearing blockages, or performing adjustments.
- **Use compatible components.** Use only hoses, filters, collection bags, accessories, and replacement components suitable for the VC-200 and the intended application.
- **Do not modify the machine.** Unauthorized modifications, removal of components, or bypassing of safety features may create hazardous operating conditions.

- **Do not leave the machine unattended while operating.** Switch the machine OFF and disconnect it from the power supply before leaving the work area.

**Hazardous Dust and Personal Protective Equipment**

**WARNING:** Concrete, masonry, stone, coatings, and other construction materials can produce dust that may be hazardous if inhaled or contacted. Some materials may contain respirable crystalline silica or other hazardous substances.

The operator is responsible for identifying the hazards associated with the material being collected and for following applicable workplace safety requirements.

- Wear appropriate eye protection and protective gloves.
- Use suitable respiratory protection when required by the material, application, or jobsite conditions.
- Wear hearing protection when operating the VC-200 with grinding, cutting, drilling, or other high-noise equipment.
- Minimize the release of collected dust when changing bags, servicing filters, or cleaning the machine.
- Use appropriate PPE when handling used filters, collection bags, or other components contaminated with hazardous dust.
- Dispose of collected material, used filters, and collection bags in accordance with applicable local, state, and federal requirements.

**IMPORTANT:** The VC-200 can be used as part of a dust-control system, but proper dust-control performance depends on the complete application, including the connected tool, shroud, hose, airflow, work practices, and other required controls.

**Electrical Safety**

**WARNING:** Improper electrical connection or use can result in electric shock, fire, or equipment damage.

- Verify that the electrical supply matches the voltage and frequency shown on the machine rating plate.
- Connect the machine only to a properly grounded receptacle installed in accordance with applicable electrical codes.
- Never remove, alter, or bypass the grounding connection.
- If an extension cord is required, use only a grounded extension cord of sufficient conductor size and electrical rating for the machine, cord length, and jobsite conditions.
- Inspect the power cord, plug, and extension cord before each use. Replace damaged electrical components before operating the machine.
- Keep electrical connections and cords away from water, wet surfaces, heat, sharp edges, and areas where they may be damaged.
- Do not handle the plug, cord, or electrical controls with wet hands.
- Disconnect the machine by grasping the plug. Never unplug the machine by pulling on the power cord.
- Switch the machine OFF before connecting or disconnecting it from the electrical supply.

### Motor Thermal Protection

The VC-200 is equipped with motor thermal protection designed to interrupt operation if excessive motor temperature occurs.

If the thermal protection activates:

1. Switch both motor switches **OFF**.
2. Disconnect the machine from the electrical supply.
3. Check the collection bag and replace it if full.
4. Inspect the hose and inlet for blockage or restricted airflow.
5. Clean the pre-filter using the specified jet-pulse cleaning procedure.
6. Check that the motor cooling openings are unobstructed.
7. Allow the motor to cool before attempting to restart the machine.

The thermal protection may require **up to approximately 45 minutes** to reset, depending on motor temperature and operating conditions.

**IMPORTANT:** Repeated activation of the thermal protection indicates an operating or equipment condition that must be corrected. Do not repeatedly reset and continue operating the machine without determining the cause.

## TECHNICAL DATA

| Specification | VC-200 |
|---|---|
| Electrical supply | 120 V AC, single phase* |
| Maximum power | 2.4 kW / 3.2 HP* |
| Current | 16 A* |
| Maximum airflow | 400 m³/h / 236 CFM |
| Maximum vacuum | 220 mbar / 90 in. water lift |
| Main hose | D50 × 7.5 m / approximately 2 in. × 24 ft |
| Inlet | D70 / approximately 2.8 in. |
| Pre-filter efficiency | 99.5% @ 1 µm (factory EN 779-F8 specification) |
| Pre-filter area | 3.0 m² / approximately 32 ft² |
| HEPA filter | H13, 99.99% @ 0.3 µm |
| Total H13 HEPA filter area | 2.4 m² / approximately 26 ft² |
| Dust collection | Continuous folding bag system |
| Dimensions (L × W × H) | 570 × 710 × 1270 mm / 22.4 × 28 × 50 in. |
| Weight | 48 kg / approximately 107 lb |

## INTENDED USE

The **BLUEROCK VC-200 Industrial HEPA Dust Extractor** is designed for professional collection and separation of **dry, non-combustible dust and debris** generated during construction, concrete surface preparation, and other industrial applications.

The VC-200 may be connected directly to compatible dust-producing equipment, including **concrete floor grinders, handheld grinders, concrete drills, saws, and other power tools equipped with suitable dust-collection ports or shrouds**. It may also be used with compatible vacuum accessories for general dry cleanup of construction and industrial work areas.

The VC-200 incorporates a multi-stage dust collection and filtration system consisting of:

- A **cyclonic separation chamber** to separate heavier particles from the airflow before they reach the filters.
- A **high-area conical pre-filter** for primary filtration and protection of the HEPA filters.
- **Dual H13 HEPA filters** for final filtration of fine airborne particles.
- A **jet-pulse filter-cleaning system** to help maintain airflow and reduce filter loading during operation.
- A **continuous folding bag collection system** that allows collected dust to be contained and removed while minimizing unnecessary dust exposure.

### Typical Applications

The VC-200 is suitable for dry dust collection associated with applications such as:

- Concrete floor grinding and surface preparation
- Concrete and masonry drilling
- Concrete cutting and sawing when performed using a compatible dry dust-collection system
- Coating and surface-removal operations
- Dry construction dust and debris collection
- Cleanup around concrete-processing and surface-preparation equipment
- Workshop, warehouse, and industrial dry-dust collection

**IMPORTANT:** The VC-200 is a component of a dust-control system. Effective dust control depends on the complete system, including the connected tool, dust shroud or collection device, hose configuration, required airflow, work practices, and the type and quantity of dust being generated. The operator is responsible for determining and following all dust-control requirements applicable to the specific job and material.

### Prohibited Use

**WARNING:** The VC-200 is designed for **dry collection only**. Do not use the machine to collect materials or operate in environments for which it was not designed.

**Do not use the VC-200 to collect:**

- Water, slurry, or other liquids
- Gasoline, solvents, oils, or other flammable or combustible liquids
- Hot ash, burning or smoldering material, cigarettes, sparks, or other ignition sources
- Explosive or highly combustible dust
- Flammable gases or vapors
- Reactive, corrosive, or otherwise hazardous materials unless the complete system is specifically approved and equipped for that application
- Materials that could damage the filters, collection system, hose, or internal components

**Do not operate the VC-200 in explosive or potentially explosive atmospheres.**

**Never use the VC-200 as a wet vacuum or slurry vacuum.** Collection of liquids or concrete slurry may damage the machine, compromise the filtration system, and create an electrical hazard.

## MACHINE DESCRIPTION

### Main Components

| Item | Component |
|---|---|
| 1 | Motor / engine housing |
| 2 | On / off motor switches |
| 3 | Vacuum gauge |
| 4 | Jet-pulse filter-cleaning lever |
| 5 | Dust collection barrel / cyclone chamber |
| 6 | D70 inlet assembly |
| 7 | Main pre-filter |
| 8 | H13 HEPA filter assemblies |
| 9 | Continuous bag holder and bag cassette |
| 10 | Frame / wagon assembly |
| 11 | Rear transport wheels |
| 12 | Lockable front casters |
| 13 | Push / transport handle |
| 14 | Vacuum hose and cuffs |

## How the Dust Separation and Filtration System Works

The BLUEROCK VC-200 uses a **multi-stage dust separation and filtration system** designed to capture dry construction dust while helping maintain airflow and reduce unnecessary loading of the HEPA filters.

During operation, the system works as follows:

### 1. Dust Enters the Collection Chamber

Dust-laden air is drawn through the vacuum hose and enters the VC-200 through the suction inlet. The incoming airflow carries dust and debris into the main collection chamber.

### 2. Cyclonic Separation Removes Heavier Material

Inside the collection chamber, the airflow is directed into a cyclonic motion. Centrifugal force and gravity separate heavier dust and debris from the moving air. These particles fall toward the bottom of the collection chamber rather than traveling directly to the filtration system.

This initial separation reduces the amount of material reaching the filters and helps maintain consistent suction performance.

### 3. The Main Pre-Filter Captures Fine Dust

Air containing the remaining finer particles passes through the large conical pre-filter. The pre-filter provides the primary filtration stage and is designed to capture fine dust before it reaches the final HEPA filtration stage.

The VC-200 pre-filter provides approximately **3.0 m² (32 ft²) of filtration area** and is rated by the manufacturer at **greater than 99.5% efficiency at 1.0 µm**.

### 4. Dual H13 HEPA Filters Provide Final Filtration

After passing through the pre-filter, the airflow passes through the **dual H13 HEPA filters** before being exhausted from the machine.

The two HEPA filters provide a combined filtration area of approximately **2.4 m² (26 ft²)** and are rated at **greater than 99.99% efficiency at 0.3 µm**.

This staged arrangement allows the pre-filter to capture the majority of dust before it reaches the HEPA filters, helping protect the final filters and extend their useful service life.

### 5. Jet-Pulse Cleaning Helps Maintain Airflow

As dust accumulates on the surface of the pre-filter, airflow and suction performance may gradually decrease. The VC-200 is equipped with a **manual jet-pulse filter-cleaning system** that allows the operator to clean accumulated dust from the pre-filter without removing it from the machine.

When the jet-pulse cleaning procedure is performed, the pressure change helps dislodge accumulated dust from the filter surface. The loosened material falls into the lower collection chamber.

Regular filter cleaning helps maintain airflow, reduces unnecessary filter loading, and can extend pre-filter service life.

**6. Collected Dust Transfers to the Continuous Bag System**
During operation, separated material accumulates in the lower portion of the collection chamber. When the motors are switched OFF, airflow stops and the internal flap opens, allowing accumulated dust to fall into the **continuous folding collection bag** below the chamber.

The continuous bag system allows the operator to pull down additional bag material as needed, seal the collected dust, and remove the filled section without replacing the entire bag supply.

This system helps reduce direct handling of collected material and minimizes unnecessary release of dust during disposal.

**IMPORTANT:** The pre-filter and H13 HEPA filters perform different functions and must both be correctly installed during operation. Never operate the VC-200 with a filter removed, damaged, improperly installed, or intentionally bypassed.

## UNPACKING AND ASSEMBLY

Inspect the machine and accessories immediately after unpacking. Do not operate a machine that appears damaged in shipment.

### Factory Packing List

| Description | Quantity |
|---|---|
| VC-200 dust extractor | 1 |
| D50 S-wand set | 1 set |
| D70/D50 reducer | 1 |
| D50 EVA anti-static hose | 7.5 m |
| D50 hose cuffs | 2 |
| D50 floor brush | 1 |

Depending on packaging configuration, front casters or other minor components may require assembly before use. Make sure all hardware is securely installed before operating the machine.

### Accessory Connection

1. Connect the floor brush to the wand when floor pickup is required.
2. Connect the wand or tool adapter to the D50 vacuum hose.
3. Install the appropriate reducer or cuff where required.
4. Connect the hose securely to the machine inlet or to the dust port of the power tool being used.
5. Route the hose to avoid sharp bends, crushing, twisting, traffic paths, and trip hazards.

# OPERATION

| WARNING | Before connecting power, verify that the electrical supply matches the rating plate and that the machine, filters, hose, and collection system are correctly assembled. |
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## Pre-Operation Inspection

Before each use, inspect the VC-200 and the work area to confirm that the machine is correctly assembled and ready for safe operation.

- **Verify the motor switches are OFF.** Both motor switches must be in the OFF position before connecting the machine to electrical power.
- **Inspect the electrical system.** Check the power cord, plug, switches, and visible electrical components for cuts, cracks, loose connections, overheating, or other damage. Do not operate the machine if electrical damage is found.
- **Check the filters.** Confirm that the main pre-filter and both H13 HEPA filters are correctly installed and appear serviceable. Never operate the VC-200 with a filter removed, damaged, improperly installed, or bypassed.
- **Check the filter housings and seals.** Make sure the top cover, filter housings, latches, gaskets, and seals are correctly positioned and securely fastened. Air leakage at these locations can reduce suction and allow dust to bypass the filtration system.
- **Inspect the continuous bag system.** Confirm that the continuous folding bag is correctly installed, securely sealed at the bottom, and has sufficient unused bag material available. Replace or reposition the bag before operation if necessary.
- **Inspect the vacuum hose and connections.** Check the hose, cuffs, reducers, and tool connections for holes, cracks, excessive wear, blockage, or loose fittings. Damaged or leaking connections can significantly reduce dust-collection performance.
- **Check the suction inlet.** Make sure the inlet and airflow path are free of obstructions and that all connections are properly secured.
- **Check the machine position.** Place the VC-200 upright on a firm, level surface. Lock the front caster brakes when necessary to prevent unintended movement.
- **Check the work area.** Route the power cord and vacuum hose where they will not create a trip hazard or be damaged by vehicles, equipment, sharp edges, heat, or the work being performed.
- **Verify the application.** Confirm that the material being collected is dry and suitable for the VC-200. Do not use the machine for liquids, slurry, hot material, combustible material, or other prohibited substances.
- **Verify the electrical supply.** Make sure the receptacle and any extension cord being used are properly grounded and suitable for the electrical requirements shown on the machine rating plate.

**IMPORTANT:** Do not operate the VC-200 if any component required for safe dust collection is missing, damaged, improperly installed, or not functioning correctly.

**Starting the VC-200**

1. Position the VC-200 on a **firm, level surface** close enough to the work area to minimize unnecessary hose length and sharp bends.
2. Lock the front caster brakes when appropriate to prevent the machine from moving during operation.
3. Connect the vacuum hose securely to the VC-200 suction inlet.
4. Connect the opposite end of the hose to the dust port, shroud, wand, floor tool, or other compatible dust-collection accessory being used. Make sure all connections are secure and as airtight as practical.
5. Arrange the hose so that it is not crushed, sharply bent, twisted, or positioned where it may be damaged during operation.
6. Verify that both motor switches are in the **OFF** position.
7. Connect the VC-200 to a properly grounded electrical receptacle matching the electrical requirements shown on the machine rating plate.
8. Switch the first vacuum motor **ON**.
9. Switch the second vacuum motor **ON** when additional airflow and suction are required for the application.
10. Verify that suction is present at the hose or connected tool and observe the machine briefly before beginning work.
11. Check for abnormal noise, excessive vibration, electrical odor, visible dust leakage, or other unusual operating conditions.
12. Begin the dust-producing operation only after confirming that the VC-200 is operating normally and adequate suction is present.

**WARNING:** If visible dust escapes from the machine or from a filter housing, stop operation immediately. Switch the machine OFF, disconnect power, and determine the cause before continuing.

**Using One or Both Vacuum Motors**

The VC-200 is equipped with **two independently switched vacuum motors**, allowing suction capacity to be adjusted for the application.

For lighter cleanup or applications requiring less airflow, one motor may provide sufficient suction. For concrete grinding, heavy dust generation, longer hose runs, or applications requiring greater airflow, both motors should normally be used.

Using only the airflow necessary for the application can reduce noise and unnecessary motor operating time. However, adequate airflow must always be maintained at the connected tool to effectively capture the dust being generated.

**IMPORTANT:** When the VC-200 is being used as part of a dust-control system for a power tool, do not reduce airflow below the amount required for that tool and application.

**During Operation**

Monitor the VC-200 throughout operation. Changes in sound, airflow, vacuum indication, or dust containment can indicate that maintenance or corrective action is required.

- **Monitor suction performance.** A noticeable reduction in suction may indicate filter loading, a blocked hose, a full collection bag, an air leak, or another airflow restriction.
- **Observe the vacuum gauge.** Changes in the gauge reading can help identify increasing restriction within the filtration or airflow system.
- **Keep the hose unrestricted.** Avoid sharp bends, kinks, crushing, or excessive hose length. Periodically check the hose and connected tool for accumulated material or blockage.
- **Monitor the collection bag.** Do not allow the continuous collection bag to become excessively full or place excessive weight on the bagging system.
- **Clean the pre-filter as necessary.** Use the jet-pulse filter-cleaning procedure when suction decreases or filter loading is suspected.
- **Clean the filter before changing the collection bag.** Performing the jet-pulse cleaning procedure before bag replacement helps move accumulated dust from the filter and collection chamber into the bag.
- **Maintain ventilation around the motors.** Keep motor cooling openings unobstructed and do not cover the motor housing during operation.
- **Watch for dust leakage.** Dust escaping from the machine, filter housing, collection system, hose, or connections indicates a condition that must be corrected.
- **Monitor motor operation.** Stop the machine if either motor repeatedly stops, thermal protection activates, abnormal noise or vibration develops, or the motor housing becomes unusually hot.

**Stop operation immediately if:**

- Visible dust is discharged from the machine.
- Suction is suddenly lost.
- The hose or inlet becomes completely blocked.
- A filter, seal, hose, or collection bag becomes damaged.
- Either motor repeatedly stops or overheats.
- An electrical odor, smoke, sparking, abnormal noise, or excessive vibration occurs.

Disconnect the machine from power and correct the condition before returning it to service.

**Stopping the VC-200**

1. Stop the connected grinder, drill, saw, or other dust-producing equipment.
2. Allow the VC-200 to continue operating briefly after the dust-producing equipment has stopped. This helps clear residual dust from the tool connection and vacuum hose.
3. If filter cleaning is required, perform the specified **jet-pulse filter-cleaning procedure** before final shutdown.
4. Switch both vacuum motors **OFF**.
5. Allow the motors to stop completely and wait briefly for suspended dust inside the collection chamber to settle into the continuous collection bag.
6. Disconnect the VC-200 from the electrical supply when the machine will not be used again immediately.
7. Inspect the collection bag and replace the filled section when necessary.
8. Before storing the machine, inspect the hose, cord, filters, collection system, and exterior for conditions requiring cleaning or service.

**Always unplug the VC-200 before changing collection bags, removing filters, clearing blockages, performing maintenance, or servicing the machine.**

## JET-PULSE FILTER CLEANING

| WARNING | Do not open the filter housing or remove filters while the machine is operating. Hazardous dust may be released. |
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The VC-200 is equipped with a **manual jet-pulse filter-cleaning system** designed to remove accumulated dust from the surface of the main pre-filter. Regular filter cleaning helps maintain airflow and suction performance and reduces unnecessary loading of the H13 HEPA filters.

The pre-filter should be cleaned:

- When a noticeable reduction in suction occurs.
- When the vacuum gauge indicates increased airflow restriction.
- Before changing or removing a filled collection bag.
- After extended operation in heavy dust conditions.
- At the end of the work period when significant filter loading has occurred.

The jet-pulse system is intended to clean the **main pre-filter while it remains installed in the machine**. Routine removal of the pre-filter for cleaning is not necessary.

**WARNING:** Do not open the filter housing, remove a filter, or attempt to manually clean a filter while the machine is operating. Opening the filtration system may release collected hazardous dust.

***Jet-Pulse Filter-Cleaning Procedure***

1. Make sure the VC-200 is fully assembled with the pre-filter, H13 HEPA filters, and continuous collection bag system correctly installed.
2. With the machine operating, **block the suction inlet using the inlet stopper/cap**. Blocking the inlet allows vacuum pressure to build within the filtration chamber.
3. Allow the machine to operate with the inlet blocked for approximately **3 seconds**.
4. Quickly operate the **jet-pulse cleaning lever** and hold/actuate it for approximately **3 seconds**. The resulting pressure change helps dislodge accumulated dust from the surface of the pre-filter.
5. Release the cleaning lever and allow vacuum pressure to rebuild.
6. Repeat the cleaning cycle approximately **five times**, allowing vacuum to rebuild between each pulse.
7. After the final cleaning cycle, switch both motors **OFF**.
8. Allow the motors to stop completely and wait briefly for loosened dust to settle into the lower collection chamber and continuous bag.
9. Remove the inlet stopper/cap before restarting the machine for normal operation.

### *If Suction Does Not Improve*

If suction remains weak after completing the jet-pulse cleaning procedure:

1. Inspect the vacuum hose, cuffs, reducers, tool connection, and suction inlet for blockage or restriction.
2. Check the hose and connections for leaks.
3. Check whether the collection bag is excessively full.
4. Inspect the pre-filter for excessive loading, damage, or deterioration.
5. Replace the pre-filter if cleaning no longer restores adequate airflow.
6. If airflow remains restricted after the airflow path and pre-filter have been checked, inspect the H13 HEPA filter system.

**IMPORTANT:** Do not strike, beat, scrape, or use compressed air to clean the pre-filter. These methods may damage the filter media and reduce filtration performance.

## CONTINUOUS BAG DUST COLLECTION

The VC-200 uses a **continuous folding bag collection system** designed to contain collected dust and allow filled sections of bag to be removed without replacing the entire bag supply.

The continuous bag material is stored on the bag holder beneath the collection chamber. As dust is collected, additional bag material can be pulled downward to create a new collection section. When a section becomes full, it can be sealed, separated, and removed while the remaining bag material stays installed on the machine.

This system helps minimize direct handling of collected dust and reduces unnecessary dust release during disposal.

**WARNING:** Collected construction dust may contain hazardous substances. Avoid compressing, shaking, dropping, or otherwise handling filled bags in a manner that could release dust. Use appropriate personal protective equipment when handling collected material.

### Installing a New Continuous Bag

1. Switch both motors **OFF**, unplug the VC-200, and allow collected dust to settle.
2. Make sure the collection chamber and surrounding area are stable before servicing the bag system.
3. Release the retaining belt and remove or lower the continuous-bag holder as required.
4. Remove any empty bag packaging or remaining material from the holder.
5. Install the new continuous folding bag supply evenly around the bag holder. Make sure the bag material is not twisted, torn, or trapped.
6. Pull the inner end of the continuous bag upward and into the correct position around the collection outlet.
7. Reinstall the bag holder and secure the upper portion of the bag using the retaining belt.
8. Pull sufficient bag material downward to create a collection section below the machine.

9. Gather the lower end of the bag and **seal it securely with a suitable cable tie or closure**.
10. Inspect the bag installation before restarting the machine. The bag must be securely retained at the top and completely sealed at the bottom.

**IMPORTANT:** Never operate the VC-200 with the bottom of the continuous bag open or improperly sealed.

### Changing a Filled Collection Bag

For best dust containment, perform the bag change before the collection section becomes excessively full.

1. Perform the **jet-pulse filter-cleaning procedure** before changing the bag. This helps move accumulated dust from the pre-filter and collection chamber into the bag.
2. Switch both motors **OFF**.
3. Wait for the motors to stop completely and allow suspended dust and material inside the collection chamber to settle into the bag.
4. Pull down sufficient unused bag material above the collected dust to provide room for sealing.
5. Gather the bag material directly above the collected dust and install a cable tie or suitable closure. Make sure the filled bag is completely sealed.
6. Install a **second closure above the first**, leaving enough space between the two closures to safely separate the filled bag from the remaining bag material.
7. Carefully cut the bag material **between the two closures**.
8. Remove the sealed collection bag without dropping, squeezing, or puncturing it.
9. Pull additional continuous bag material downward to form the next collection section.
10. Confirm that the new lower end is completely sealed before restarting the VC-200.

Dispose of collected dust and used bag material in accordance with the requirements applicable to the material being collected.

## FILTER INSPECTION AND REPLACEMENT

| WARNING | Filter service can release hazardous dust. Switch the machine OFF, unplug it, and use appropriate eye, hand, and respiratory protection before opening the filter system. |
|---|---|

The VC-200 uses a **main pre-filter and dual H13 HEPA filters** as part of its multi-stage filtration system. Properly installed and serviceable filters are essential for maintaining airflow, filtration performance, and containment of collected dust.

Filters should be inspected whenever:

- Jet-pulse cleaning no longer restores normal suction.
- Visible damage to a filter or filter seal is suspected.
- Dust is observed escaping from the machine.
- A filter has become contaminated or damaged during service.
- Filter replacement is required as part of normal maintenance.

**WARNING:** Filter service can release accumulated hazardous dust. Before opening the filtration system, switch both motors OFF, disconnect the power plug, allow dust to settle, and wear appropriate eye, hand, and respiratory protection.

**IMPORTANT:** Never operate the VC-200 with the pre-filter or either H13 HEPA filter removed, damaged, improperly seated, or bypassed.

**Main Pre-Filter Replacement**

The main pre-filter captures the majority of fine dust before it reaches the H13 HEPA filters. The jet-pulse cleaning system should normally be used to maintain the pre-filter during regular operation.

Replace the pre-filter when it is damaged, excessively contaminated, or when proper airflow cannot be restored through normal jet-pulse cleaning.

1. Perform the jet-pulse filter-cleaning procedure before removing the pre-filter when practical.
2. Switch both motors **OFF** and disconnect the VC-200 from the electrical supply.
3. Allow sufficient time for airborne dust inside the machine to settle.
4. Prepare a suitable plastic disposal bag or other appropriate sealed container **before opening the filter housing**.
5. Release the upper housing clamps and carefully lift the upper assembly to access the pre-filter.
6. Avoid unnecessary movement, shaking, or impact that could release accumulated dust from the filter.
7. Carefully remove the pre-filter and place it directly into the prepared disposal bag.
8. Seal the disposal bag and handle the used filter according to the hazards associated with the material collected and applicable disposal requirements.
9. Inspect the filter mounting area, sealing surfaces, gaskets, and related components for damage or excessive dust accumulation.
10. Clean accessible sealing surfaces carefully without dispersing collected dust into the surrounding area.
11. Install the replacement pre-filter in the correct position and verify that it is fully seated.
12. Reinstall the upper assembly and securely fasten all clamps before returning the machine to service.

**IMPORTANT:** Do not strike, beat, scrape, or clean the pre-filter with compressed air. Aggressive cleaning methods can damage the filter media and reduce filtration performance.

### H13 HEPA Filter Replacement

The H13 HEPA filters provide the **final filtration stage** of the VC-200. Unlike the main pre-filter, the HEPA filters are **not intended to be cleaned or restored for continued use**.

Replace a HEPA filter if it is damaged, contaminated during service, no longer properly sealed, or if airflow remains inadequate after the hose, inlet, collection system, and pre-filter have been inspected and serviced.

1. Switch both motors **OFF** and disconnect the VC-200 from the electrical supply.
2. Allow collected dust to settle before opening the HEPA filter housing.
3. Prepare a suitable plastic disposal bag or sealed container before removing the filter.
4. Access the appropriate HEPA filter cover and loosen the retaining hardware.
5. Carefully remove the H13 HEPA filter while minimizing movement that could release collected dust.
6. Place the used filter directly into the prepared disposal bag or container.
7. **Do not touch, brush, scrape, blow out, wash, or otherwise attempt to clean the HEPA filter media.**
8. Inspect the filter mounting surface, gasket, seal, and housing for damage or contamination.
9. Install the replacement H13 HEPA filter in the correct orientation and make sure it is properly seated against its sealing surface.
10. Reinstall the filter cover and securely tighten the retaining hardware.
11. Repeat the procedure for the second HEPA filter when replacement of both filters is required.
12. Confirm that all filter covers, seals, and hardware are correctly installed before operating the machine.

**IMPORTANT:** Never attempt to clean an H13 HEPA filter with compressed air, water, brushes, impact, or other mechanical methods. Cleaning may damage the filter media or sealing surfaces and compromise filtration performance.

**WARNING:** If visible dust is discharged from the VC-200 during operation, stop using the machine immediately. Inspect the complete filtration system for damaged, missing, improperly installed, or improperly sealed components before returning the machine to service.

## PERIODIC INSPECTION AND MAINTENANCE

| WARNING | Always switch the machine OFF and disconnect the plug before cleaning, inspection, adjustment, or service. |
|---|---|

**After Each Use**

Routine inspection and cleaning after operation helps maintain suction performance, filtration efficiency, and service life. After completing work, allow collected dust to settle before inspecting or servicing the machine.

- **Inspect the vacuum hose and connections.** Check the hose, cuffs, reducers, inlet, and tool connections for accumulated material, blockage, cracks, holes, or other damage that could restrict airflow or cause leakage.
- **Check the continuous collection bag.** Inspect the bag for excessive filling, tears, punctures, or improper sealing. Replace the filled section before it becomes excessively full or difficult to handle safely.
- **Clean the pre-filter as necessary.** Perform the jet-pulse filter-cleaning procedure when filter loading or reduced suction is observed. After heavy dust collection, cleaning the pre-filter before final shutdown may help maintain airflow for the next use.
- **Inspect for dust leakage.** Check the filter housings, collection chamber, continuous bag system, hose connections, clamps, gaskets, and seals for evidence of escaping dust. Correct any leakage before returning the machine to service.
- **Inspect the machine for damage.** Check the frame, wheels, casters, handles, latches, hose fittings, and other accessible components for looseness, damage, or abnormal wear.
- **Inspect the electrical components.** Check the power cord and plug for cuts, abrasion, crushing, exposed conductors, loose connections, discoloration, overheating, or other damage. Do not use the machine with a damaged cord or plug.
- **Clean the exterior.** Remove accumulated dust from external surfaces using cleaning methods appropriate for the material collected. Avoid cleaning methods that unnecessarily disperse hazardous dust into the air.
- **Check motor ventilation openings.** Make sure cooling openings are free of excessive dust or obstruction. Do not insert tools or objects into ventilation openings.
- **Prepare the machine for storage.** Disconnect the machine from electrical power, properly secure the cord and hose, and store the VC-200 indoors in a clean, dry location.

**IMPORTANT:** Do not use compressed air to clean the exterior or internal components when doing so could disperse collected dust into the surrounding work area or damage the filtration system.

**Service Precautions**

**WARNING:** Dust retained inside the VC-200, filters, hoses, and collection system may contain hazardous substances. Servicing contaminated equipment can expose the operator or service personnel to concentrated dust.

Before performing inspection, maintenance, or service:

- Switch both motors **OFF** and disconnect the machine from the electrical supply.
- Allow sufficient time for airborne dust inside the machine to settle.
- Use appropriate eye protection, gloves, respiratory protection, and other PPE based on the material collected and the work being performed.
- Perform service in an area where released dust can be appropriately controlled.

- Treat filters, collection bags, hoses, and internal components exposed to hazardous dust as contaminated until appropriately cleaned or contained.
- Place used filters, filled collection bags, and contaminated service materials directly into suitable sealed bags or containers.
- Avoid shaking, dropping, striking, or otherwise handling contaminated components in a manner that could release accumulated dust.
- Do not puncture, tear, wash, brush, blow out, or otherwise attempt to clean H13 HEPA filter media.
- Do not use high-pressure water or pressure washing to clean the VC-200.
- Do not direct water or cleaning liquid into the motors, cooling openings, switches, wiring, electrical components, filter housings, or other machine openings.
- Inspect gaskets, seals, clamps, and filter mounting surfaces whenever the filtration system is opened. Replace damaged components before operation.
- Use compatible BLUEROCK replacement filters and service components of the correct specification.

**Electrical repairs, internal motor service, switch replacement, wiring repairs, and other work requiring access to electrical components should be performed only by qualified service personnel.**

**WARNING:** Never operate the VC-200 after service until all filters, guards, covers, seals, clamps, and collection components have been correctly reinstalled and secured.

**Storage**

Proper storage helps prevent damage to the filtration system, electrical components, hose, and collection system.

Before storing the VC-200:

1. Switch both motors **OFF** and disconnect the machine from the electrical supply.
2. Empty or replace the collection bag as necessary. Do not store the machine with an excessively full or damaged collection bag.
3. Perform the jet-pulse filter-cleaning procedure if significant filter loading occurred during use.
4. Inspect the machine, hose, cord, and accessories for damage requiring attention before the next use.
5. Coil the power cord loosely without sharp bends, knots, or strain at the plug or machine connection.
6. Store the vacuum hose so that it is not crushed, sharply bent, kinked, or subjected to unnecessary weight.
7. Secure loose accessories so they cannot fall from or damage the machine during storage.
8. Make sure the VC-200 is upright and stable.

Store the VC-200 **indoors in a clean, dry, secure location** protected from:

- Rain, standing water, and excessive moisture
- Freezing conditions and extreme temperatures
- Corrosive chemicals or vapors

- Impact from vehicles or other equipment
- Unauthorized or untrained use

**IMPORTANT:** The VC-200 is a dry dust extractor. Protect the machine and filtration system from water and moisture during storage and transportation.

## TROUBLESHOOTING

| Condition | Possible Cause | Corrective Action |
|---|---|---|
| **Neither motor starts** | No electrical power; plug not fully connected; circuit breaker or GFCI tripped; damaged power cord or plug; thermal protection active; switch or internal electrical fault | Verify the receptacle has power and is properly rated for the machine. Check the circuit breaker/GFCI. Inspect the cord and plug. Allow the motors to cool if thermal protection has activated. If the condition remains, discontinue use and contact service. |
| **One motor operates but the other does not** | Motor switch OFF; thermal protection active on one motor; defective switch; motor or internal electrical fault | Verify both motor switches. Switch the affected motor OFF and allow it to cool. If it does not restart after cooling, discontinue use of the affected motor and contact service. |
| **Motor stops during operation** | Motor overheating; restricted airflow; blocked hose or inlet; heavily loaded filter; full collection bag; cooling openings obstructed; electrical supply problem | Switch OFF and unplug the machine. Check the hose and inlet for blockage, inspect the collection bag, perform filter cleaning, and make sure motor cooling openings are clear. Allow the motor to cool before restarting. |
| **Thermal protection activates repeatedly** | Persistent airflow restriction; clogged filter; blocked hose; excessive filter loading; full bag; inadequate motor cooling; electrical problem | Correct all airflow restrictions, clean or replace filters as necessary, replace the filled bag, and clear cooling openings. Verify the electrical supply. Repeated thermal activation requires further inspection before continued operation. |
| **Motor operates but there is no suction** | Hose disconnected; hose or inlet completely blocked; collection or filter system incorrectly assembled; major air leak | Check all hose and inlet connections. Clear blockages. Verify that filters, covers, collection components, and seals are correctly installed and secured. |
| **Suction is weak or gradually decreases** | Pre-filter loaded with dust; hose partially blocked; collection bag excessively full; hose leak; loose connection; damaged gasket or seal; HEPA filters excessively loaded | Perform the jet-pulse cleaning procedure. Inspect and clear the hose and inlet. Check the collection bag and all hose connections. Inspect seals and filter installation. Replace filters when cleaning no longer restores adequate airflow. |
| **Suction does not improve after jet-pulse cleaning** | Hose/inlet restriction; damaged or heavily loaded pre-filter; air leak; H13 HEPA filters excessively loaded | Inspect the entire airflow path for blockage or leakage. Check the pre-filter and replace it if necessary. If airflow remains restricted with a serviceable pre-filter and clear airflow path, inspect the H13 HEPA filters. |
| **Jet-pulse cleaning appears ineffective** | Suction inlet not properly blocked; insufficient vacuum allowed to build; cleaning lever not fully actuated; filter excessively loaded or damaged | Follow the jet-pulse procedure exactly. Block the inlet, allow vacuum to build, and fully operate the cleaning lever. Repeat the specified cleaning cycles. Replace a damaged or excessively loaded pre-filter if performance cannot be restored. |

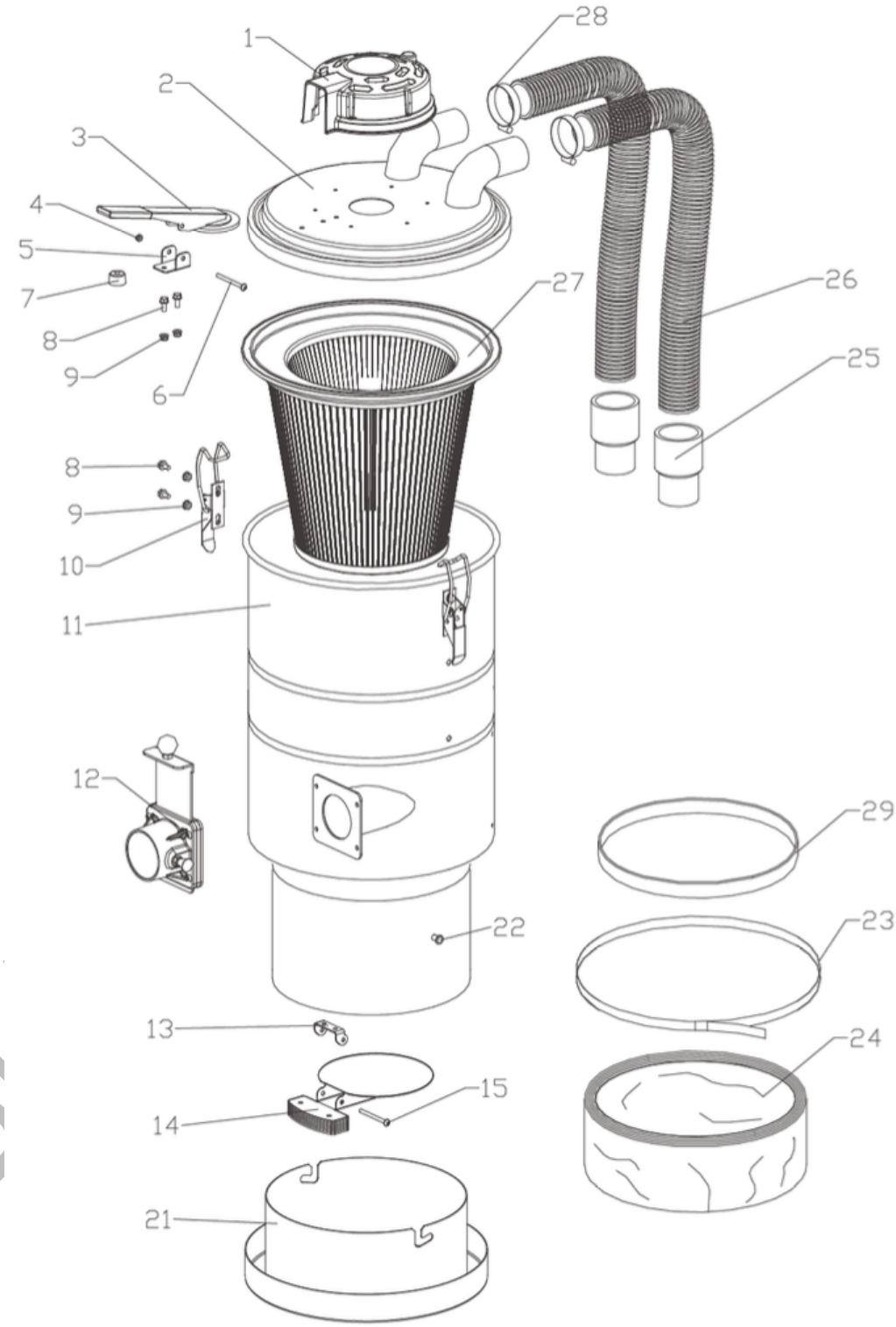
| | | |
|---|---|---|
| **Dust is discharged from the machine** | Filter missing, damaged, incorrectly installed, or improperly sealed; damaged gasket; filter housing loose; collection system leak | STOP OPERATION IMMEDIATELY. Switch OFF and unplug the machine. Inspect the pre-filter, both H13 HEPA filters, filter seals, housings, clamps, and collection system. Replace damaged components before returning the machine to service. |
| **Dust leaks around the collection bag** | Bag incorrectly installed; bottom not completely sealed; bag punctured or torn; retaining belt loose; bag connection improperly positioned | Stop the machine and allow dust to settle. Inspect the bag installation and retaining system. Seal or replace damaged bag material and make sure the bag is correctly secured before restarting. |
| **Dust does not drop properly into the continuous bag** | Dust bridging or compacting in collection chamber; bag improperly positioned; collection outlet obstructed; insufficient settling time after shutdown | Switch OFF and allow dust to settle. Inspect the bag position and collection outlet for obstruction. Do not reach into the collection chamber while the machine is connected to power. |
| **Vacuum gauge indicates increased restriction** | Pre-filter loading; hose or inlet restriction; collection system obstruction | Inspect the hose and inlet for blockage and perform the jet-pulse filter-cleaning procedure. If restriction remains, inspect the pre-filter and filtration system. |
| **Hose collapses or pulls tightly against surfaces** | Excessive restriction at tool or hose inlet; blocked tool shroud; hose blockage | Stop operation and inspect the connected tool, shroud, hose, and inlet. Remove the restriction before continuing. |
| **Abnormal noise or vibration** | Loose component; foreign material in airflow path; damaged hose or fitting; motor/fan problem; damaged wheel, caster, or frame component | Switch OFF and unplug the machine. Inspect accessible components for looseness, damage, or foreign material. Do not continue operating if the source cannot be identified and corrected. |
| **Electrical odor, smoke, or sparking** | Motor, switch, wiring, cord, plug, or other electrical fault | SWITCH OFF AND UNPLUG IMMEDIATELY. DO NOT RESTART THE MACHINE. Have the machine inspected by qualified service personnel. |
| **Machine moves during operation** | Caster brakes not engaged; uneven or sloped surface; hose pulling on machine | Position the VC-200 on a firm, level surface. Engage the caster brakes where appropriate and reposition the hose to reduce pulling force. |
| **Excessive static discharge** | Static buildup from dry dust or airflow; incompatible/non-conductive hose or accessories; grounding issue | Verify that the machine is connected to a properly grounded receptacle and that compatible anti-static hose and accessories are being used. Discontinue use if abnormal or persistent static discharge occurs. |

**IMPORTANT:** Do not continue operating the VC-200 when suction is substantially reduced. Restricted airflow can reduce dust-collection performance, increase filter loading, and contribute to motor overheating.

**Do not bypass, remove, or modify filters, seals, switches, grounding components, or other machine components in an attempt to correct an operating problem.**

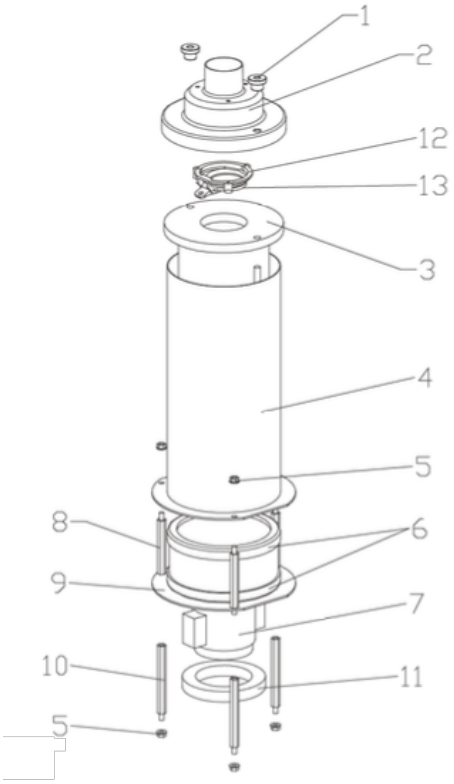
# EXPLODED PARTS DIAGRAM

## A) Dustbin Kit



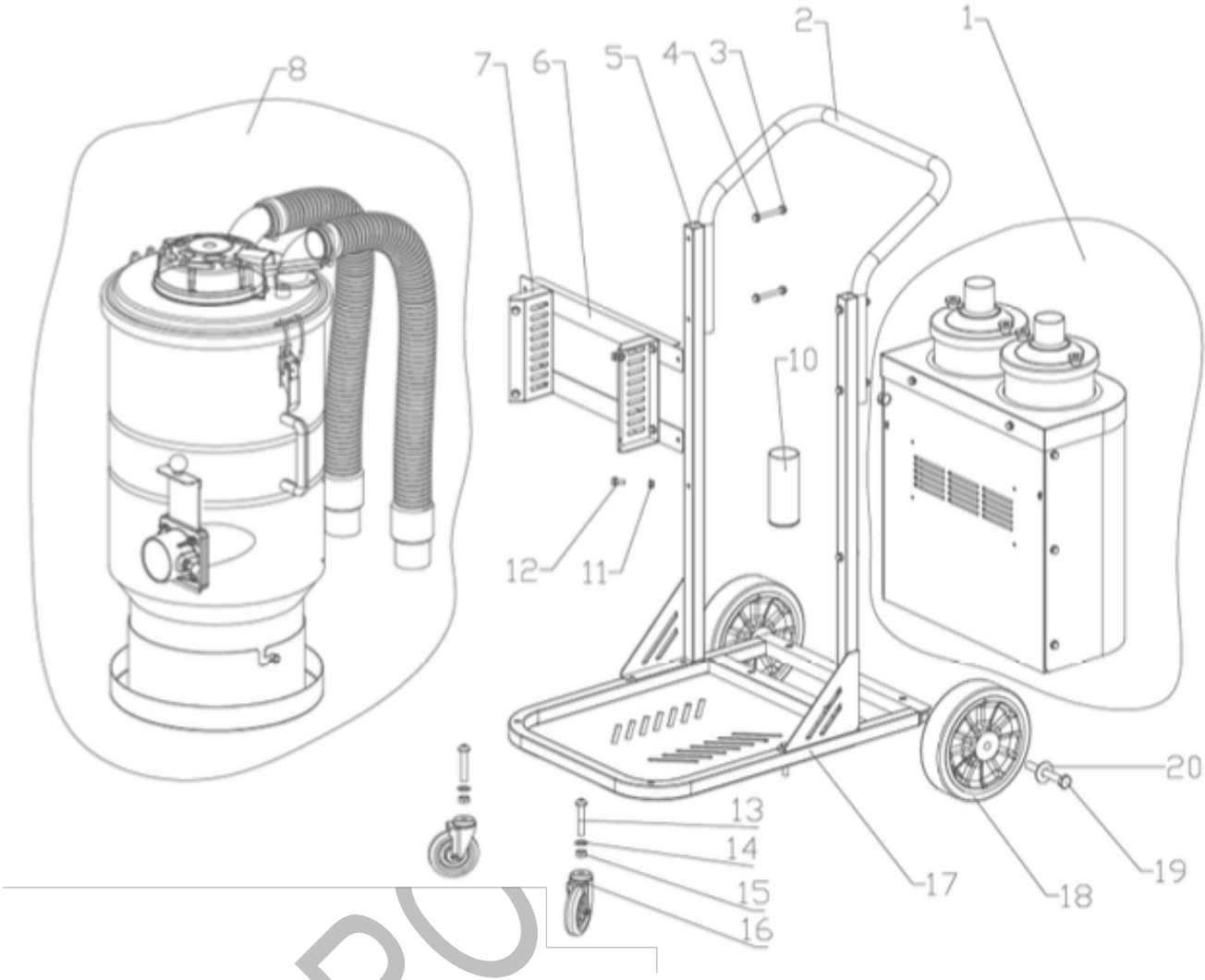
| No. | Description BLUEROCK VC-200 \| A — Dustbin Kit | Qty |
|---|---|---|
| 3 | Lever (for jet pulse filter cleaning) | 1 |
| 4 | Nut (M6) | 5 |
| 5 | Lever holder | 1 |
| 6 | Bolt (M6*60) | 2 |
| 7 | Cushion | 1 |
| 8 | Bolt (M6*12) | 6 |
| 9 | Nut (M6) | 8 |
| 10 | Holder kit | 2 |
| 11 | IVC2000 barrel | 1 |
| 12 | D70 inlet kit | 1 |
| 13 | Holder | 1 |
| 14 | Flap assembly kit | 1 |
| 15 | Hexagon bolt (M6*60) | 1 |
| 21 | Continuous bag holder packing | 1 |
| 22 | Nut (M8*15) | 2 |
| 23 | Belt packing | 1 |
| 24 | Continuous folding bag | 1 |
| 25 | D50 anti static hose cuff | 2 |
| 26 | D50 EVA hose (D50*520mm) | 2 |
| 27 | IVC2000 main filter | 1 |
| 28 | Hose Clamp (40-63) | 2 |
| 29 | Rubber ring | 1 |

## B) Motor Kit




| No. | Description BLUEROCK VC-200 \| B — Motor Kit | Qty |
|---|---|---|
| 1 | Nut (M8) | 2 |
| 2 | HEPA filter top cover | 1 |
| 3 | H13 HEPA filter | 1 |
| 4 | HEPA filter cover | 1 |
| 5 | Hex nut (M6) | 6 |
| 6 | Shock absorption rubber ring | 2 |
| 7 | Single phase motor (240V 1000W) | 1 |
| 7 | Single phase motor (120V 1200W) | 1 |
| 8 | Screws-1 (M6-76.5) | 3 |
| 9 | TS motor fixed plate | 1 |
| 10 | Screws-2 (M6-96.5) | 3 |
| 11 | Soundproof sponge (D98-78-15) | 1 |
| 12 | Check valve seat | 1 |
| 13 | Check valve | 1 |

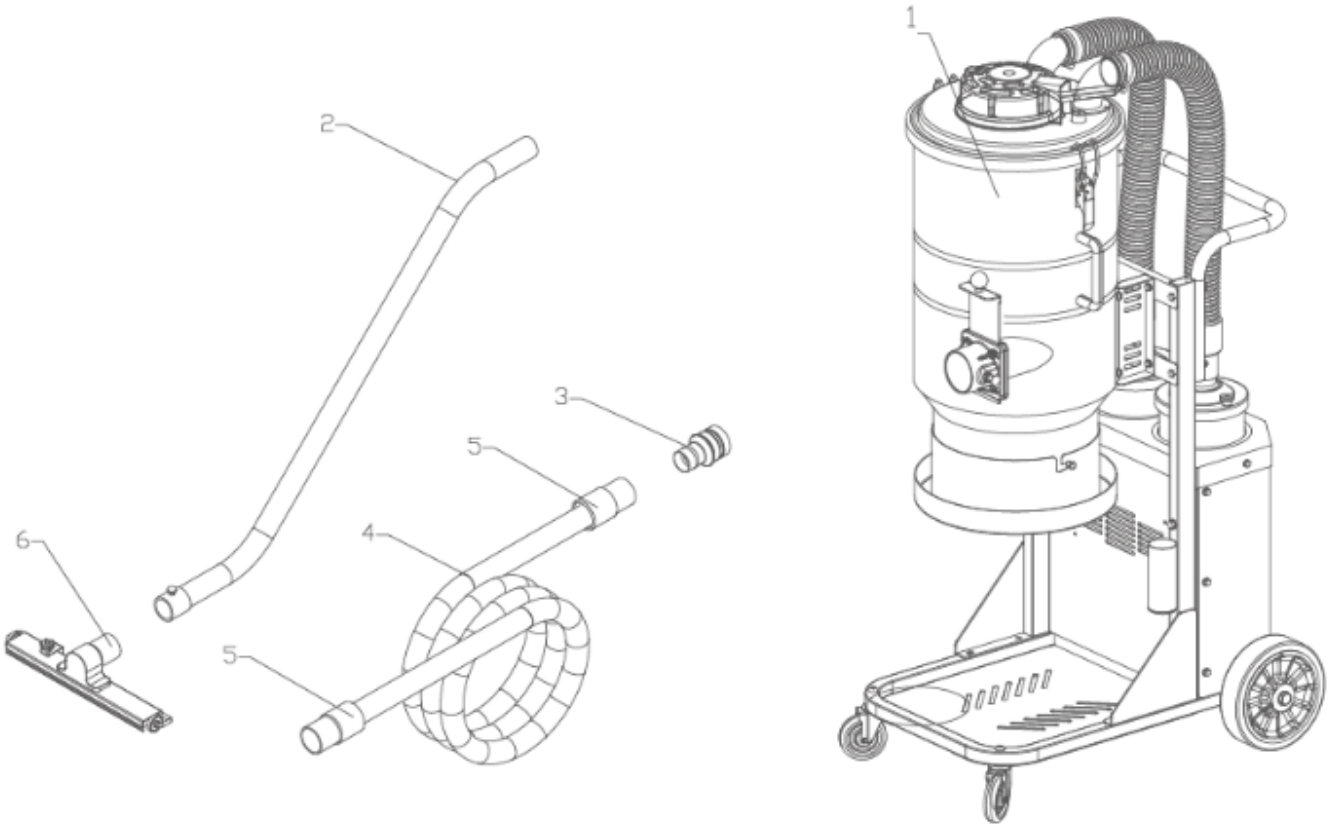
## C) Exploded View




| No. | Description BLUEROCK VC-200 \| C — Exploded View | Qty |
|---|---|---|
| 1 | IVC-2000 engineer system kit | 1 |
| 2 | IVC-2000 wagon complete packing | 1 |
| 3 | Nut | 4 |
| 4 | Bolt (M6*60) | 4 |
| 5 | IVC-2000 right stand column | 1 |
| 6 | IVC-2000 girde | 2 |
| 7 | TS series connection plate | 2 |
| 8 | IVC-2000 dustbin kit | 1 |
| 9 | IVC-2000 left stand column | 1 |

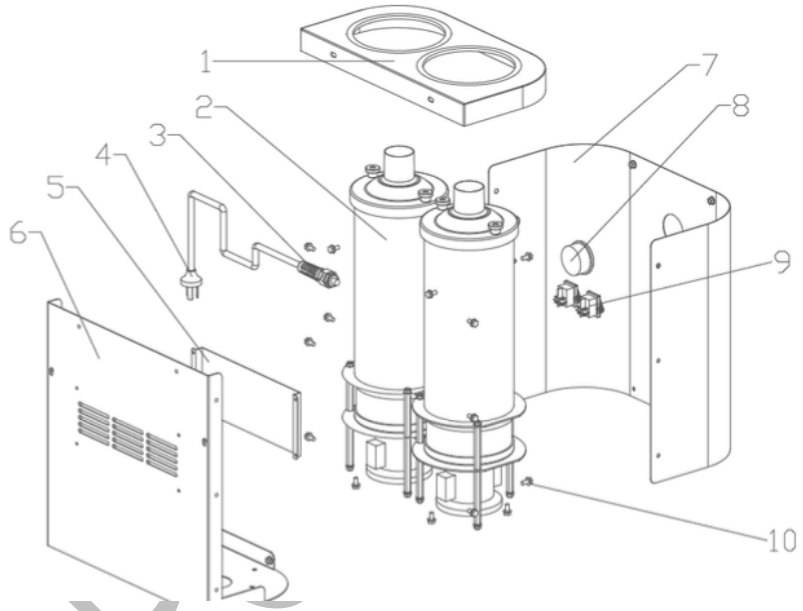
| | | |
|---|---|---|
| 10 | Nylon cable tie storage container | 1 |
| 11 | Nut (M6) | 8 |
| 12 | Bolt (M6*12) | 4 |
| 13 | Bolt (M10*60) | 2 |
| 14 | Plain cushion (M10) | 2 |
| 15 | Nut (M10) | 2 |
| 16 | Front wheel (3 in.) | 2 |
| 17 | IVC-2000 bed plate | 1 |
| 18 | REAR WHEEL KIT (8 in.) | 2 |
| 19 | Bolt (M12*100) | 2 |
| 20 | Plain cushion (M12*30*2.5) | 2 |

## D) Packing List



| No. | Description BLUEROCK VC-200 \| D — Packing List | Qty |
|---|---|---|
| 1 | IVC-2000 dust extractor | 1 |
| 2 | D50 S wands | 1 |
| 3 | D70/50 reducer | 1 |
| 4 | D50 double layer EVA hose | 7.5 |
| 5 | D50 hose cuff | 2 |
| 6 | D50 floor brush | 1 |

## E) Engine Kit




| No. | Description BLUEROCK VC-200 \| E — Engine Kit | Qty |
|---|---|---|
| 1 | IVC2000 engine cover | 1 |
| 2 | Engine kit | 2 |
| 3 | Connector (PG11) | 1 |
| 4 | Cable with electricity plug (3*1.5 / 8 meters length, RVV-10A plug) | 1 |
| 5 | Baffle | 1 |
| 6 | IVC2000 engine cover (front) | 1 |
| 7 | IVC2000 engine cover (back) | 1 |
| 8 | Vacuum meter | 1 |
| 9 | On/Off switch, 30A | 2 |
| 10 | Anti slip hexagon bolt with washer (M6*12) | 20 |

# LIMITED WARRANTY

## 1-Year Limited Warranty

The BLUEROCK VC-200 is covered by a 1-Year Limited Warranty against defects in materials and workmanship, subject to the BLUEROCK Tools Limited Warranty terms and conditions in effect at the time of purchase.

During the applicable warranty period, BLUEROCK Tools may, at its discretion and subject to the terms of the warranty, repair or replace a covered component determined to be defective in materials or workmanship.

This limited warranty applies only when the machine has been operated, maintained, transported, and stored in accordance with this manual.

## Normal Wear and Consumable Components

Components that wear or are consumed as a normal result of machine operation are not considered defects in materials or workmanship. Depending on the circumstances, these may include:

- Pre-filters and H13 HEPA filters
- Continuous collection bags and cable ties
- Vacuum hoses, cuffs, reducers, and floor tools
- Seals and gaskets
- Wheels and casters
- Brushes, switches, and other service items subject to normal wear
- Other components subject to normal deterioration through use

## Warranty Exclusions

- Misuse, abuse, neglect, or operator error.
- Use for liquids, hot material, flammable material, explosive dust, or other prohibited applications.
- Failure to follow operating, safety, filter-service, or maintenance instructions.
- Operation with clogged filters, blocked airflow, an overfilled collection bag, or damaged filtration components.
- Use with incorrect electrical supply or an inadequate extension cord.
- Unauthorized alteration, modification, repair, or disassembly.
- Accident, impact, dropping, improper handling, transportation damage, or improper storage.
- Water intrusion, corrosion, contamination, or exposure to conditions for which the machine was not designed.
- Normal wear and deterioration associated with ordinary use.

## Obtaining Warranty Assistance

If you believe the VC-200 has developed a defect covered by warranty, contact BLUEROCK Tools before returning or shipping the machine. Be prepared to provide proof of purchase, model, serial number, date of purchase, a description of the problem, and photographs or video when requested.

Do not ship or return the machine to BLUEROCK Tools without first obtaining return or service instructions. Unauthorized shipments may be refused.

## Replacement Parts and Technical Support

Replacement and service parts are available for the VC-200 through BLUEROCK Tools. BLUEROCK Tools also provides Lifetime U.S.-Based Technical Support for assistance with machine operation, troubleshooting, maintenance, and replacement-part identification.

IMPORTANT: This manual provides a summary of warranty coverage and is not intended to replace the complete BLUEROCK Tools Limited Warranty terms and conditions. In the event of a conflict, the applicable BLUEROCK Tools Limited Warranty terms and conditions in effect at the time of purchase will govern.