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> [Mityvac 7201 2.3 Gallon Fluid Evacuator Extractor and Dispensing Pump Instruction Manual](#)

Mityvac MV7201

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Model: MV7201

1. INTRODUCTION

The Mityvac 7201 is a versatile, manually operated fluid evacuator and dispensing pump designed for efficient fluid management in automotive and industrial applications. This tool facilitates both the extraction and dispensing of various fluids, including engine oil, transmission fluid, and coolant. Its robust construction from chemical-resistant polyethylene ensures durability and compatibility with a wide range of automotive liquids. Key features include a push-button operation for precise control, an automatic overflow prevention system, and a quick-drain spout for ease of use.





Image 1: Mityvac 7201 Fluid Evacuator Extractor and Dispensing Pump. This image shows the complete unit, highlighting its transparent reservoir, pump handle, and base.

2. SAFETY INFORMATION

Always observe the following safety precautions when operating the Mityvac 7201:

- Wear appropriate personal protective equipment (PPE), including safety glasses and chemical-resistant gloves, when handling automotive fluids.
- Ensure the work area is well-ventilated to avoid inhaling fumes from fluids.
- Do not use the evacuator with flammable liquids or in areas with open flames or ignition sources.
- Dispose of used fluids according to local environmental regulations. Do not pour used fluids down drains or onto the ground.
- Keep the unit clean and free from debris.
- Do not exceed the maximum operating temperature of 176°F (80°C) for fluids.

- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).

3. PACKAGE CONTENTS

Verify that all items are present before beginning operation:

- Mityvac 7201 Fluid Evacuator/Dispenser Unit
- Vacuum Tubes (two included: 0.261" OD and 0.226" OD, approximately 60" in length each)
- Instruction Guide (this document)

4. SETUP

Before first use, ensure the unit is properly assembled and ready for operation.

1. **Unpack Components:** Carefully remove all components from the packaging.
2. **Inspect for Damage:** Check the unit and all accessories for any signs of shipping damage. Do not use if damaged.
3. **Tube Connection:** Connect the desired vacuum tube to the appropriate port on the unit. Ensure a secure, airtight connection. The unit comes with two tubes of different diameters for various applications.
4. **Selector Valve:** Familiarize yourself with the black selector valve on the unit's lid. This valve controls whether the unit is in **Evacuate** (vacuum) or **Dispense** (pressure) mode.





Image 2: Side view of the Mityvac 7201, showing the manual pump mechanism and tube connections.

5. OPERATING INSTRUCTIONS

5.1. Fluid Extraction (Evacuation)

This procedure outlines how to extract fluids from a vehicle or other reservoir.

1. **Prepare Fluid:** For best results, ensure the fluid to be extracted is warm. This improves flow.
2. **Position Unit:** Place the Mityvac 7201 on a stable, level surface near the fluid source.
3. **Select Mode:** Set the black selector valve on the unit's lid to the **Evacuate** position.
4. **Insert Tube:** Insert the appropriate diameter vacuum tube into the fluid reservoir (e.g., engine oil dipstick tube, coolant reservoir). Ensure the tube reaches the lowest point of the fluid.
5. **Create Vacuum:** Operate the manual pump handle on the unit to create a vacuum. Pump approximately 10-15 times until fluid begins to flow into the reservoir.
6. **Monitor Fluid Level:** Observe the fluid level in the transparent reservoir. The automatic overflow prevention system will stop extraction when the reservoir is full.
7. **Complete Extraction:** Continue pumping as needed until all desired fluid is extracted.



Image 3: A person operating the Mityvac 7201 to extract fluid from a vehicle's engine bay. The vacuum tube is inserted into the dipstick opening.



Image 4: Close-up view of the vacuum tube inserted into a vehicle's engine, ready for fluid extraction.

5.2. Fluid Dispensing

This procedure outlines how to dispense fluids from the Mityvac 7201 into another reservoir.

1. **Fill Unit:** Ensure the Mityvac 7201 contains the fluid you wish to dispense.
2. **Position Unit:** Place the unit on a stable surface.
3. **Select Mode:** Set the black selector valve on the unit's lid to the **Dispense** position.
4. **Insert Tube:** Insert the dispensing tube into the target reservoir (e.g., coolant overflow tank, transmission fill port).
5. **Dispense Fluid:** Operate the manual pump handle to create pressure, which will force the fluid out of the unit and into the target reservoir.
6. **Monitor Dispensing:** Control the amount of fluid dispensed by monitoring the target reservoir's level and the unit's pump action.



Image 5: A person dispensing fluid from the Mityvac 7201 into a vehicle's coolant reservoir.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Mityvac 7201.

- **Cleaning:** After each use, especially when changing fluid types, clean the reservoir and tubes thoroughly. Flush with an appropriate cleaning solution or water if compatible with the previously handled fluid.
- **Emptying:** Do not leave fluids in the reservoir for extended periods. Empty the unit completely after use.
- **Storage:** Store the unit in a clean, dry place, away from direct sunlight and extreme temperatures. Coil the tubes neatly to prevent kinks.

- **Inspection:** Periodically inspect tubes, seals, and connections for wear or damage. Replace any worn components to maintain an airtight seal.

7. TROUBLESHOOTING

Refer to the following common issues and solutions:

| Problem | Possible Cause | Solution |
|------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit does not create vacuum/pressure. | Loose connections, selector valve in wrong position, internal seal issue. | Ensure all tubes are securely connected. Verify selector valve is set to 'Evacuate' or 'Dispense'. Check for damaged seals or O-rings. |
| Fluid flow is slow or stops prematurely. | Fluid is cold/viscous, tube is obstructed, tube not reaching fluid, reservoir full. | Warm up the fluid if possible. Check for kinks or blockages in the tube. Ensure the tube is fully submerged in the fluid. Empty the reservoir if full. |
| Difficulty emptying the reservoir. | Internal tube not positioned correctly for dispensing. | Ensure the internal tube for dispensing reaches the bottom of the reservoir. |
| Overflow occurs during extraction. | Automatic overflow prevention system malfunction. | Stop extraction immediately. Inspect the overflow mechanism for blockages or damage. |

If troubleshooting steps do not resolve the issue, contact Mityvac customer support.

8. SPECIFICATIONS

Model: MV7201

Capacity: 2.3 Gallons (approximately 8.7 liters)

Operation: Manual Push-Button

Material: Chemical-Resistant Polyethylene

Included Tubes: (2) Vacuum tubes (0.261" OD and 0.226" OD), approx. 60" length each

Maximum Operating Temperature: 176°F (80°C)

Product Dimensions: 9.3 x 13.2 x 25.4 inches

Item Weight: 11.65 pounds

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official Mityvac website or contact their customer service department. Keep your purchase receipt as proof of purchase.

Mityvac Official Website: www.mityvac.com

