EWK EB0281

EWK 13.5L Heavy Duty Pneumatic Oil Extractor/Dispenser Pump Instruction Manual

Model: EB0281

Introduction

This manual provides detailed instructions for the safe and efficient operation, maintenance, and troubleshooting of your EWK 13.5L Heavy Duty Pneumatic Oil Extractor/Dispenser Pump. Please read this manual thoroughly before using the product to ensure proper function and longevity.

Image: The EWK 13.5L Heavy Duty Pneumatic Oil Extractor/Dispenser Pump, shown with its packaging and included accessories.

Safety Information

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when operating the fluid extractor.
- Ensure the work area is well-ventilated and free from ignition sources.
- Do not use this device with gasoline or highly volatile, corrosive, or high-temperature fluids. This can cause damage to the unit or personal injury.
- Maintain a firm grip on the unit during operation to prevent accidental spills.
- Do not exceed the maximum operating pressure of 100 PSI. The safety valve is set to open at 20–25 PSI to prevent over-pressurization.
- Keep children and bystanders away from the work area.
- Dispose of all extracted fluids according to local environmental regulations.

Product Components and Features

The EWK 13.5L Pneumatic Oil Extractor/Dispenser Pump is designed for efficient fluid removal and dispensing. Key components and features include:

- **Heavy Duty Tank:** 13.5L capacity, reinforced for durability and resistance to deformation under pressure and high oil temperatures (up to 140°F). Translucent body allows fluid level monitoring.
- **Pneumatic Mode:** Connects to an air compressor for automated extraction.
- **Manual Handle:** For manual vacuum generation.
- **Pressure Gauge:** Monitors vacuum levels during operation.
- **Safety Valve:** Automatically releases excess pressure (opens at 20–25 PSI).
- **Mode Switch Valve:** Allows instant switching between extraction and dispensing modes.
- **Air Control Valve:** 1/4" NPT quick coupler for easy air supply connection.
- **Quick Connector:** For easy push-on/disconnect of hoses.
- **Main Tube:** 0.28" x 0.39" diameter, 59" length, with flow control valve.
- **Extension Tubes:** Two tubes (0.16" x 0.24" and 0.20" x 0.26" diameter), both 59" length, for reaching various fluid reservoirs.
- **Stable Pedal:** To secure the tank during operation.
- **Sealed Design:** Prevents leaks and spills.

Image: Diagram highlighting key features such as the quick connector, pneumatic mode, extra-long tubes, stable pedal, and sealed design.

Image: Close-up view of the shut-off valve, pressure gauge, and safety valve on the EWK fluid extractor.

Image: Illustration of the mode switch valve for extraction/dispensing and the air control valve for pneumatic operation.

Setup and Assembly

Follow these steps to prepare your EWK Fluid Extractor for use:

1. **Unpack Components:** Carefully remove all parts from the packaging. Verify that all components listed in the "What You Can Get" section are present.
2. **Attach Main Tube:** Securely connect the main tube to the extractor unit. Ensure the quick connector is fully engaged.
3. **Select Extension Tube:** Choose the appropriate diameter extension tube for your application and connect it to the main tube. Ensure a tight fit to prevent air leaks.
4. **Connect Air Supply (Pneumatic Mode):** If using pneumatic operation, connect your air compressor to the 1/4" NPT quick coupler on the air control valve. Ensure your air compressor is set to a pressure not exceeding 100 PSI.

Image: An exploded view showing the 13.5L oil extractor tank, two extension tubes, and the main tube with its quick connector.

Operating Instructions

This unit can be operated in both manual and pneumatic modes for fluid extraction and dispensing.

Fluid Extraction (Pneumatic Mode)

1. **Prepare Vehicle/Equipment:** Ensure the fluid to be extracted is at an optimal temperature (between 35°F and 140°F) for smooth operation. For engine oil, run the engine briefly to warm the oil.
2. **Connect Dipstick Tube:** Securely connect the chosen dipstick tube to the main tube.
3. **Insert Suction Hose:** Carefully insert the suction hose into the fluid reservoir (e.g., engine dipstick tube) until it reaches the bottom of the oil pan.
4. **Switch to Extract Mode:** Turn the mode switch valve to the "Extract" position.
5. **Connect Air Compressor:** Connect your air compressor to the air control valve. Open the air control valve to start the extraction process. Monitor the pressure gauge.
6. **Monitor Extraction:** Observe the fluid level in the translucent tank. The extraction will continue until the vacuum is lost or the tank is full. Close the air control valve when extraction is complete.
7. **Disconnect:** Disconnect the air compressor and remove the suction hose from the reservoir.

Fluid Extraction (Manual Mode)

1. Follow steps 1-3 from "Fluid Extraction (Pneumatic Mode)".
2. **Generate Vacuum:** Pump the manual handle repeatedly to create a vacuum within the tank. Continue pumping until fluid begins to flow.
3. **Monitor Extraction:** The vacuum will draw fluid into the tank. Continue to pump as needed to maintain suction until the fluid is extracted.
4. **Disconnect:** Remove the suction hose from the reservoir.

Fluid Dispensing

To dispense collected fluid from the tank:

1. **Position Tank:** Place the extractor tank over a suitable waste fluid container.
2. **Switch to Dispense Mode:** Turn the mode switch valve to the "Dispense" position.
3. **Open Air Control Valve:** Connect an air compressor and open the air control valve to pressurize the tank, forcing the fluid out. Alternatively, use the manual pump to pressurize the tank.
4. **Control Flow:** Use the flow control valve on the main tube to regulate the dispensing rate.
5. **Close Valve:** Close the air control valve and the flow control valve once dispensing is complete.

Image: A visual guide illustrating the five key steps for installing and operating the EWK fluid extractor, from ensuring proper temperature to switching modes.

Maintenance

- **Cleaning:** After each use, clean the tubes and the inside of the tank to prevent contamination and buildup. Use a suitable cleaning agent for the type of fluid extracted.
- **Inspection:** Regularly inspect all hoses, connections, and seals for wear, cracks, or damage. Replace any damaged components immediately.
- **Storage:** Store the unit in a clean, dry place, away from direct sunlight and extreme temperatures.
- **Pressure Gauge:** Ensure the pressure gauge is functioning correctly. If it appears damaged or inaccurate, discontinue use and seek professional advice.

Troubleshooting

Problem	Possible Cause	Solution
No suction or weak suction	Loose hose connections Clogged suction tube Insufficient vacuum generated (manual mode) Low air pressure (pneumatic mode) Mode switch valve in wrong position	Check and tighten all hose connections. Clear any obstructions from the suction tube. Pump the manual handle more vigorously or for longer. Ensure air compressor is connected and providing adequate pressure (up to 100 PSI). Set mode switch valve to "Extract".
Fluid extraction is very slow	Fluid is too cold or viscous Suction tube not at optimal depth Small diameter suction tube for thick fluid	Warm up the fluid (e.g., run engine for oil). Adjust the suction tube depth; ensure it's slightly above the very bottom of the pan for unimpeded flow, then push to bottom for final drops. Use a larger diameter extension tube if available and suitable.

Problem	Possible Cause	Solution
Difficulty inserting main tube	Tight fit with O-ring	Apply a small amount of lubricant (e.g., silicone grease) to the O-ring. Gently twist and push. Avoid excessive force.
Fluid leaks from connections	Loose connections Damaged O-rings or seals	Ensure all connections are tight and secure. Inspect and replace any worn or damaged O-rings or seals.

Specifications

Specification	Value
Brand	EWK
Model	13.5L Pneumatic Oil Extractor
Item Model Number	EB0281
Capacity	13.5 Liters
Operating Pressure	100 PSI (Maximum)
Safety Valve Setting	Opens at 20–25 PSI
Product Dimensions	9.84 x 9.25 x 27.95 inches
Item Weight	10.48 pounds
Main Tube Dimensions	0.28" x 0.39" diameter, 59" length
Extension Tube 1 Dimensions	0.16" x 0.24" diameter, 59" length
Extension Tube 2 Dimensions	0.20" x 0.26" diameter, 59" length
Maximum Fluid Temperature	140°F

Warranty and Support

For warranty information, technical support, or to inquire about replacement parts (e.g., replacement hose SKU: EB0399), please contact EWK customer service directly. Refer to the product packaging or the EWK official website for contact details.

Note: Product specifications and components are subject to change without prior notice.