90LTR AIR DISCHARGE MOBILE OIL DRAINER WITH PROBES

MODEL NO: **AK459DX.V3**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Refer to instructions | Wear eye protection | Wear protective gloves | Wear protective clothing | Wear safety footware | Wear ear protection

1. SAFETY

- ❑ **WARNING!** Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.
- ✓ Familiarise yourself with the application and limitations of the oil drainer, as well as the potential hazards.
- ❑ **WARNING!** Disconnect the drainer from the air supply before changing accessories, servicing or performing any maintenance.
- ✓ Maintain the drainer in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Keep the work area clean, uncluttered and ensure there is adequate lighting.
- ✓ Observe work area conditions. Keep area well lighted.
- ✓ When not in use disconnect from the air supply, vent reservoir and store in a safe, dry, childproof area.
- ✓ Use the right product for the job. There are certain applications for which the oil lift was designed. **DO NOT** modify the oil lift and **DO NOT** use the oil lift for a purpose for which it was not intended.
- × **DO NOT** operate the drainer if any parts are damaged before using any product, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for any broken or damaged parts and any other conditions that may affect its operation. Replace or repair damaged or worn parts immediately.
- ✓ Replacement parts and accessories. When servicing, use only identical replacement parts. Use of any other parts will void the warranty.
- × **DO NOT** operate the drainer when you are tired, under the influence of alcohol, drugs or intoxicating medication.
- ❑ **WARNING!** Use eye and hearing protection. Always wear ANSI approved impact safety goggles, full face shield and ANSI approved hearing protection when working with this product.
- × **DO NOT** exceed the product's working pressure of 0.5bar.
- × Only use on a flat surface capable of supporting the Portable Oil Lift and its maximum load of 26 gallons.
- ✓ Dress safely. Non-skid footwear or safety boots should be used when working with the product. **DO NOT** wear loose clothing or jewelry as they can become caught in moving parts wear a protective hair covering to prevent long hair from becoming caught in moving parts.
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- × **DO NOT** allow children in the work area.
- ✓ Always check hardware and assembled parts after assembling. All connections should tight and hardware tightened.
- × **DO NOT** overreach. Keep proper footing and balance at all times to prevent tripping, falling and injury.
- ✓ Always secure the wheels and casters in place while operating the oil lift.
- ✓ Dispose of waste oil in accordance with local authority regulations.
- ✓ Keep the drainer clean for best and safest performance.
- ✓ Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use, and ensure that all connections are secure.
- × **DO NOT** stand on the drainer.
- × **DO NOT** adjust or tamper with the safety valve.
- × **DO NOT** move the drainer by the hose, or pull the hose sharply from the air supply.
- × **DO NOT** place attachments close to your face and **DO NOT** point hose at other persons or animals.
- × **DO NOT** allow untrained persons to operate the drainer.
- × **DO NOT** leave the drainer operating unattended.
- × **DO NOT** direct air from the air hose at yourself or others.
- ❑ **WARNING! DO NOT** pollute the environment by allowing uncontrolled discharge of waste oil.

1.1. OIL DRAINER SAFETY

Failure to heed the following warnings may result in personal injury and/or property damage.

- ❑ **WARNING!** Never leave unit unattended when operating or evacuating.
- ❑ **WARNING!** Never use near open flame or heat source.
- ❑ **WARNING!** Always check that valve below funnel is closed before emptying.
- ❑ **WARNING!** Always disconnect air supply after emptying.
- ❑ **WARNING!** Never use unit for handling highly volatile fuels and fluids.
- ❑ **WARNING!** Use only the nozzle assembly provided.
- ❑ **WARNING!** Never fill the tank over the maximum level indicated by the level indicator.

2. INTRODUCTION

Steel fabricated 90L reservoir. Height-adjustable steel drain pan, fitted with grid filter. Gravity feed reservoir with air discharge hose. Includes quick release oil dipstick probes, plus adaptors for BMW and VW, powered by venturi suction pump. Fitted with reservoir oil level indicator tube. Heavy-duty wheels and castors for easy mobility.

3. SPECIFICATION

Model No:	AK459DX.V3
Air Discharge:	Yes
Air Inlet Size:	1/4”
Capacity:	90L
Collection Bowl Capacity (L):	10L
Maximum Height to Pan:	1850mm

Maximum Inlet Pressure:	7bar
Minimum Height to Pan:	1200mm
Nett Weight:	29.6kg
Oil Discharge Pressure (bar):	0.5bar
Suction Probe:	Yes
Temperature Range:	<90°C

4. AIR SUPPLY

4.1. Recommended hook up is shown in fig.1.
4.2. Ensure the air valve is in the “Off” position before connecting to the air supply.
4.3. You will require an air pressure of 7 bar.
❑ **WARNING:** Ensure the air supply is clean and does not exceed pressures specified in these Instructions. Too high an air pressure and/or unclean air will shorten the drainer life due to excessive wear, and may be dangerous.
4.4. Drain the air tank daily. Water in the air line may damage the drainer.
4.5. Clean the air inlet filter screen weekly.
4.6. Line pressure should be increased to compensate for unusually long air hoses.

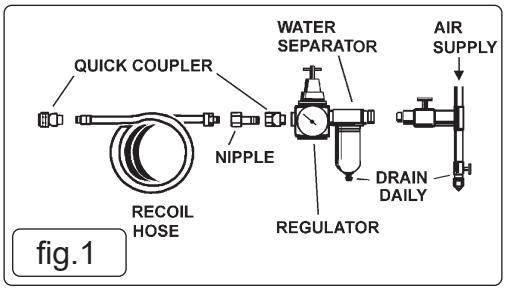

fig.1

5. ASSEMBLY

5.1. Assemble according to the exploded drawing fig.2, ensuring all connecting parts are securely sealed with tape or sealant. No components should be loose.

5.2. SEAL SPECIFICATION CHECK INSTRUCTIONS

1. Verify Seal Specification
Ensure the seal meets the required specifications before proceeding.
2. Air Intake Pipe Connection.
- The air intake pipe, connected to the quick coupler on top of the measuring cup, must be fitted with an oil filter and an air regulator.
3. Pre-Test Setup.
- Turn the ball valve handle under the measuring cup to a horizontal position before testing.
- Close the valve on the suction tip.
- Connect the air intake pipe to the quick coupler.
- Adjust the air intake pressure. The pressure gauge pointer will move.
4. Pressure Test.
- Increase pressure until it reaches 0.05 MPa.
- Close the air intake valve on top of the measuring cup.
- Maintain pressure for 1 hour.
- Check the gauge: if the pointer remains unchanged, the seal is confirmed as airtight.
5. Shut-Off Procedure.
Turn off the following valves:
- Air intake valve (on top of the tank).
- Discharge oil pipe valve.
- Valve under the oil tray.
6. Final Pressure Check.
- Turn the valve handle under the measuring cup to a vertical position.
- Open the top valve of the measuring cup.
- Allow air intake for 3–5 minutes.
- Observe the pressure gauge: the pressure must not fall below 0.055 MPa.
- Maintain pressure for 1 hour.
- If the pointer remains unchanged, the test is considered a pass.

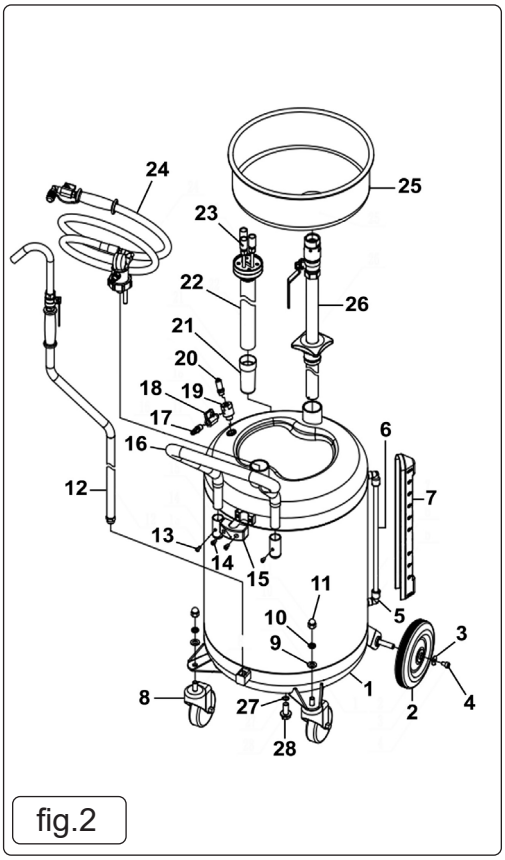

fig.2

5.3. PRE INSPECTION

1. Pre-Use Inspection
- Before each use, inspect the entire oil lift system for any issues.
- Check air hoses for damage, and ensure screws are tight and properly aligned.
- Look for any misalignment, obstruction of moving parts, improper mounting, or broken components that could affect safe operation.
- If you hear unusual noise or experience vibrations, turn off the air compressor immediately and resolve the issue before further use.
2. Safety Precaution
- Always disconnect the air supply and release all compressed air before cleaning, servicing, or maintaining the system.
Cleaning
- Keep the exterior of the equipment free from oil and grease.
- Use a mild soap and a damp cloth for cleaning.
- **DO NOT** use flammable or combustible solvents.
4. Oil Level Inspection
- Before and during use, regularly check the oil indicator tube.
- **DO NOT** allow the used oil level to exceed the holding capacity to prevent overflow or damage.

6. OPERATION

6.1. OIL COLLECTION

- Close the valve under the measuring cup.
- Open the valve under the oil tray and the air intake valve on top of the tank.
- Adjust the height of the oil tray to the appropriate level.
- Position the machine so that it is directly beneath the oil discharge opening, ensuring that the oil tray and discharge opening are aligned vertically.

6.2. OIL SUCTION

A. Suction Tip Selection

Two φ6 suction tips and one φ8 suction tip are included. Choose the appropriate size based on your requirements.

B. Lubricate Suction Plug

- Apply lubricant around the rubber ring of the suction plug for smooth operation.

C. Attach Suction Plug

- Insert the suction plug into the quick coupler of the chosen suction tip.

D. Prepare for Oil Suction

- Close the valve under the measuring cup.
- Open the air intake valve on top of the measuring cup.
- Connect the quick coupler on top of the measuring cup to the air intake pipe.
- Open the air intake valve and adjust the air intake pressure to between 0.3–0.5 MPa.
- The vacuum gauge pointer will move, and the degree of vacuum can be adjusted as needed. The maximum vacuum should be no less than 0.057 MPa.
- You can add air while suctioning oil or stop the air intake and continue suctioning oil manually.
- Only open the valve on the oil suction pipe when suctioning oil. Ensure the oil level does not exceed the STOP position.

E. Oil Flow from Measuring Cup to Oil Tank

Open the valve under the measuring cup, and the oil will flow from the measuring cup to the oil tank.

F. Oil Suction Process

- Open the valve under the measuring cup and connect the oil suction plug to the suction tips.
- Insert the suction tip into the tank where the oil needs to be suctioned from.
- Open the top valve and adjust the air intake pressure. Once the vacuum gauge reaches the desired level, you can begin oil suction.
- You can either suction oil while adding air or turn off the air intake valve first and move the machine to suction the oil. The oil level can be observed via the transparent oil level indicator.

6.3. DISCHARGING OIL

A. Important Note:

- Ensure that the valve under the measuring cup is closed before discharging oil to avoid damaging the transparent measuring cup.

B. Prepare for Oil Discharge

- Open the control valve for the oil discharge opening under the tank.
- Position the steel elbow of the oil pipe over the opening of the oil storage tank.

C. Close Valve Under the Oil Tray

- Close the valve under the oil tray to prevent unwanted oil flow.

D. Connect Air Intake Pipe

- Connect the air intake pipe (with pressure regulator) to the quick coupler on top of the tank.
- Open the air intake valve and adjust the air intake pressure to 0.5 bar.
- The air pressure will force the oil to discharge into the oil storage tank.

4. Alternative Option for XH-ODT-90L-E Oil Drain Tank

- The tank can also be equipped with a bracket panel, allowing you to place it directly on the tray.
- This setup increases the oil collection range for more efficient oil drainage.

7. MAINTENANCE

IMPORTANT: Always disconnect power and air supply before performing any maintenance.

8. TROUBLESHOOTING

Symptoms	Possible Causes	Corrective Actions
The vacuum level does not meet the required specification.	**1.** Air leaking. **2.** Ball bearing is rusty.	**1.** Test the Vacuum Level in the Measuring Cup: - First, check the vacuum level of the measuring cup. - If the cup passes the test, it confirms that there is no leakage in the cup. In this case, inspect other potential leak points in the tank, such as seal tape or seal glue. - If the cup fails the test, it indicates a leak. Tighten the connecting handle between the upper and lower covers using a large wrench, or apply seal glue to the contact surface between the seal ring and the glass jar. **2.** Check for Rusted Steel Ball: - If the steel ball is rusted, replace the entire upper cover. **3.** Ensure All Valves Are Closed: - Verify that all valves are completely turned off before proceeding.
The vacuum gauge pointer drops quickly after vacuumization.	Air Leaking.	Same as above.

Symptoms	Possible Causes	Corrective Actions
The vacuum gauge shows a pressure drop but fails to suction oil.	**1.** The seal ring is damaged. **2.** The cover of the oil suction tip is deformed or misshapen. **3.** Oil temperature is too low. **4.** Check whether the oil suction valve is turned on or off. **5.** Check if the oil suction pipe is blocked or touching the bottom of the tank.	**1.** Replace the seal ring on the oil suction plug. **2.** Replace the oil suction tip cover if it is damaged or deformed. **3.** Allow the oil to reach normal operating temperature, then try again. **4.** Ensure the oil suction pipe valve is fully open. **5.** If the suction pipe is clogged, clean it before proceeding.

ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTER YOUR PURCHASE HERE

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. Please note that other versions of this product are available. If you require documentation for alternative versions, please email **or call our technical team on technical@sealey.co.uk or 01284 757505.**

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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