

35LTR AIR DISCHARGE MOBILE OIL DRAINER WITH PROBES

MODEL NO: **AK456DX**

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 safety footwear



Wear protective clothing

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.
- ✓ Keep the drainer clean for best and safest performance.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ☐ **WARNING!** While extracting high temperature oils, keep hands, face and body protected using suitable personal protective equipment.
- ✓ Keep children and unauthorised persons away from the work area.
- ☐ **WARNING!** Ensure correct air pressure is maintained and not exceeded.
- ✓ 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** extract caustic or flammable products.
- ✗ **DO NOT** use the drainer for any purpose other than that for which it is designed.
- ✗ **DO NOT** operate the drainer if any parts are damaged or missing as this may cause failure and/or personal injury.
- ✗ **DO NOT** stand on the drainer.
- ✗ **DO NOT** adjust or tamper with the safety valve.
- ✗ **DO NOT** move the drainer by the hose, or yank the hose from the air supply.
- ✗ **DO NOT** place attachments close to your face (especially eyes, ears, etc.) and do not point hose at other persons or animals.
- ✗ **DO NOT** allow untrained persons to operate the drainer.
- ✗ **DO NOT** operate the drainer when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** leave the drainer operating unattended.
- ✗ **DO NOT** direct air from the air hose at yourself or others.
- ✓ When not in use, disconnect from the air supply, vent reservoir and store in a safe, dry, childproof area.
- ✓ Dispose of waste oil in accordance with local authority regulations.
- ☐ **WARNING! DO NOT** pollute the environment by allowing uncontrolled discharge of waste oil.
- ▲ **DANGER! DO NOT** release drain pan clamp lever when there is pressure in the reservoir as pipe and drain pan will be propelled upward with force. This could result in damage and/or serious injury.

2. INTRODUCTION

Steel fabricated 35ltr reservoir. Height adjustable steel drain pan, fitted with grid filter. Features gravity feed reservoir with air discharge hose. Includes quick release oil dipstick probes, powered by venturi suction pump. Fitted with heavy-duty wheels and castors for easy mobility.

3. SPECIFICATION

Model No:..... **AK456DX**
Air Discharge: Yes
Air Inlet Size: 1/4"
Capacity: 35ltr
Collection Bowl Capacity (ltr): 18ltr
Gravity Discharge: No
Gravity Feed: Yes
Maximum Height to Pan: 1420mm
Maximum Inlet Pressure: 7bar
Minimum Height to Pan: 935mm
Model No: **AK456DX**
Oil Discharge Pressure (bar): 0.5bar
Pump Discharge: No
Suction Probe: Yes
Temperature Range: <80°C

4. ASSEMBLY

(The numbers in brackets refer to the parts diagram.)

4.1. WHEELS

- 4.1.1. Slide a fixed wheel (30) onto each stub axle and retain them with the circlips provided (29). Bolt the two castors (24) to the front brackets at the base of the tank using the two washers (23) and two dome nuts provided (22).

4.2. HANDLE

- 4.2.1. Slide the chrome handle (37) into the two tubular retainers welded onto the back of the tank. Retain the handle using the two socket cap bolts provided.

4.3. PROBE STORAGE TUBE

- 4.3.1. Screw the self tapping screw provided into the hole halfway down the probe container tube (12). Insert the tube into the retaining rings welded to the side of the tank until the screw head comes to rest on the upper ring. Insert the set of three probes (10), through the probe seat (11) at the top of the probe container tube.

4.4. COLUMN AND OIL COLLECTION BOWL

- 4.4.1. Take the steel collection tube (9) and wrap the threaded end with PTFE tape. Connect the tube to the Collection Bowl (1) by screwing it into the valve fitting on the underside of the bowl and fully tighten. Slide the locking ring (4) onto and up the steel tube (9) and hold it in place with the locking bolt (5). Insert the tube with bowl attached through the clamp fitting (6) and down into the tank. Set the required height for the bowl and tighten the clamp fitting (See also fig.2D). Loosen the locking ring (4). Slide it down onto the clamp fitting and re-tighten.

5. AIR SUPPLY

The recommended hook-up is shown in fig.1.

- 5.1. Ensure the air valve is in the "Off" position before connecting to the air supply. You will require an air pressure of 7bar.

- ☐ **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, causing damage and/or personal injury.

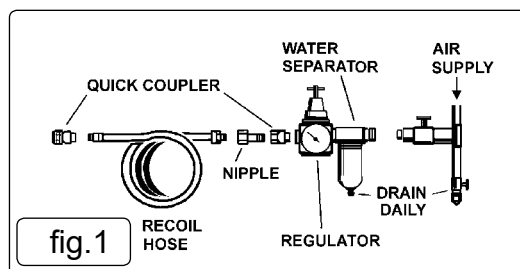
- 5.2. Drain the air tank daily. Water in the air line may damage the drainer.

- 5.3. Clean the air inlet filter screen weekly.

- 5.4. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres).

- 5.5. The minimum hose diameter should be 10mm I.D. and fittings must have the same inside dimensions.

- 5.6. Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.



6. OPERATION

- ☐ **WARNING!** Ensure that you read, understand and apply the safety instructions in Section 1.
☐ **WARNING!** Ensure the oil level never rises above the top fixing point on the discharge tube attached to the side of the tank.

6.1. GRAVITY DRAINAGE

- 6.1.1. Close all valves as shown in fig.2 (V1, V2, V3, V4 & V5). All valves are closed when the valve lever is at 90° to the direction of flow.

- 6.1.2. Position the oil drainer beneath a vehicle situated on a lift and open the valve beneath the Oil Collection Bowl. See fig.2-V1.

- 6.1.3. Remove the engine sump plug and allow the oil to drain. Monitor the oil level in the tank by observing the discharge hose fixed to the side of the tank.

- 6.1.4. When drainage is complete it is important to close the valve beneath the Oil Collection Bowl. See fig.2-V1.

6.2. SUCTION PROBE DRAINAGE

- 6.2.1. Close all valves as shown in fig.2 (V1, V2, V3, V4 & V5). All valves are closed when the valve lever is at 90° to the direction of flow.

- 6.2.2. Connect the compressed air at 7bar (100psi) to the quick coupling on the vacuum pump (see fig.2C) and open the valve beneath the Vacuum Gauge (fig.2C-V2). Air will be expelled from the muffler on the vacuum pump during the creation of the vacuum in the tank.

- 6.2.3. When the arrow on the vacuum gauge approaches the top of the green area, after 2.5 - 3 minutes close the valve and shut off the compressed air. (**DO NOT** allow the needle to reach the red area.) The unit is now de-pressurised and ready for use.

NOTE: Oil should be removed when hot (70-80°C). Keep hands, face and body protected using suitable personal protective equipment (PPE). The suction capacity of the unit is equal to 2/3 of its reservoir capacity.

- 6.2.4. Choose one of the three probes depending on the internal diameter of the dipstick tube and push it onto the suction probe handle with a twisting action to ensure it is fully seated. See fig.2-A.

- 6.2.5. With the engine still warm, remove the dipstick and insert the probe as far down as it will go.

- 6.2.6. Open the valve on the handle (fig.2A-V3), keeping the probe immersed in the oil within the sump. As soon as the sump is emptied, close the valve.

- 6.2.7. When suction drainage is complete, and before using the air discharge, dispel any remaining vacuum in the tank by slowly opening valve V1 beneath the oil collection bowl. Close the valve when the vacuum is relieved.

6.3. EMPTYING

- 6.3.1. Close all valves as shown in fig.2 (V1, V2, V3, V4 & V5). All valves are closed when the valve lever is at 90° to the direction of flow.

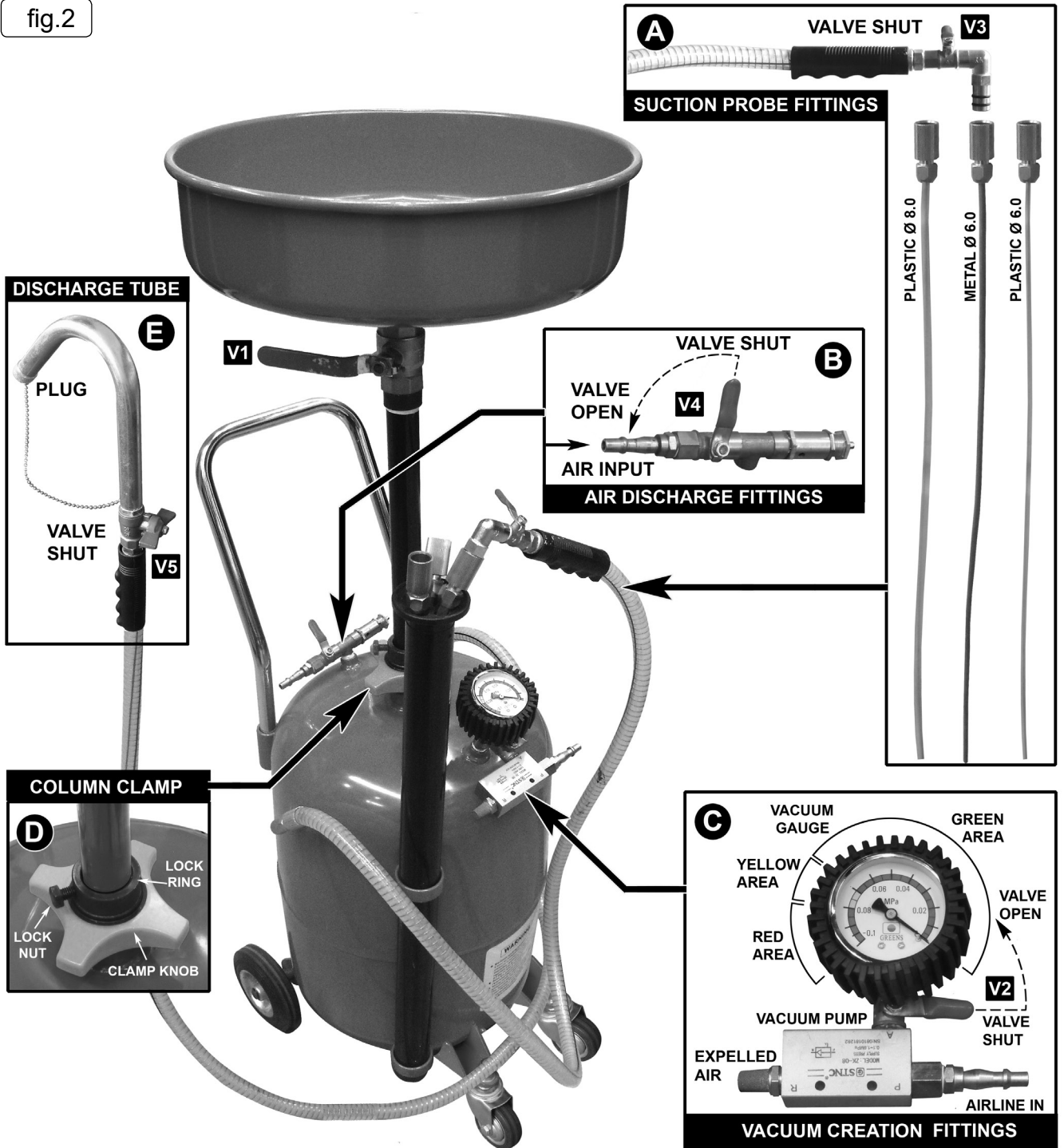
- 6.3.2. Remove the plug from the end of the discharge tube with a twisting action. See fig.2E. Hook the discharge tube into a suitable container such as an oil drum and open the valve on the handle (V5).

- 6.3.3. Connect compressed air (0.5Bar/7.25psi) to the quick coupling on the air discharge fittings (See fig.2B). Open the valve on the discharge fittings (see fig.2B-V4) until all the oil has been transferred from the tank to the container. Close the valve. Insert the plug into the end of the discharge tube with a twisting action.

- 6.3.4. Disconnect the air supply and vent any pressure remaining in the reservoir by opening the drain pan valve (fig.2-V1).

NOTE: The unit storage tank has been fitted with a safety valve, factory calibrated to 0.5Bar/7.25psi.

fig.2



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.

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.

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.