Pro-Tech TOOLS

80L Pro-Tech TOOLS Pneumatic Collection Tank and Vacuum Unit



Instructions for use

Translation of the original instructions

Please read the user manual and safety instructions carefully before using the equipment. Follow these instructions to ensure the safe and correct operation of the equipment.

Safety instructions and warnings

■ The device has been tested and calibrated before leaving the factory; therefore, do not damage or dismantle it without the manufacturer's consent, otherwise the manufacturer accepts no liability for any consequences arising therefrom.
■ During operation, keep the device away from areas of high temperature and high pressure, or from areas where there is a risk of ignition or explosion.
■ Do not move the positioning ring on the lifting rod; if the screw on the positioning rod becomes loose, tighten it back to its original position.
■ If a leak is detected in the hose or other components during operation, the air supply must be shut off immediately and a thorough inspection carried out to rectify the fault.
■ The pressure of the air supply should not be lower or higher than the specified pressure to ensure normal operation of the equipment.
■ The temperature of the waste oil being pumped should be between 40 and 60 degrees to protect operators from burns.
■ Take care to protect your eyes and hands during operation. (It is recommended that you wear gloves and safety goggles.)
■ The engine must be switched off during operation.
■ The device must not be used to pump liquids containing methyl alcohol or flammable liquids such as brake fluid, petrol and diesel.
■ Once you have finished pumping waste oil with the device, empty the waste oil from the measuring container into the oil tank in good time to ensure the measuring container is properly protected and to extend its service life.
■ When the measuring container is empty, do not forget to close the oil drain valve beneath the measuring container; otherwise, when the ball valve on the oil drain hose is opened, compressed air will enter the measuring container, which may cause it to burst due to pressure exceeding its load-bearing capacity.
■ After finishing operation, release the pressure in the equipment, empty it and clean it to prevent damage to the equipment and personal injury caused by incorrect operation.
■ Do not use the machine for purposes other than those specified in the instructions.
■ Waste oil should be properly disposed of or recycled in accordance with the relevant regulations issued by the competent authorities.
■ If servicing is required, contact a service centre; do not attempt to resolve problems yourself.
Note: The manufacturer accepts no liability for damage to the machine or accidental injury to personnel caused by operation contrary to the instructions, and the warranty will be void.

Product description

1. Principle of operation: The pneumatic collection vessel is used to extract air from the transparent measuring vessel, or to simultaneously extract air from both the transparent measuring vessel and the oil reservoir using compressed air, thereby creating a certain degree of vacuum; under the influence of external atmospheric pressure, engine oil is pumped through the suction pipe into the transparent measuring vessel or into the oil reservoir.
2. A vacuum is achieved quickly and the device has high pressure resistance. It is a multi-purpose device.
3. The container is of high quality and is characterised by high strength, transparency, heat resistance, weather resistance and corrosion resistance. Thanks to its high transparency, it is possible to clearly carry out visual inspection and measurement of the oil level.
4. Compressed air is the power source for all functions, making the device safe to operate and environmentally friendly.
5. Oil suction hoses of various diameters are available to meet the requirements of different vehicles.

Operating instructions

I. Vacuum extraction

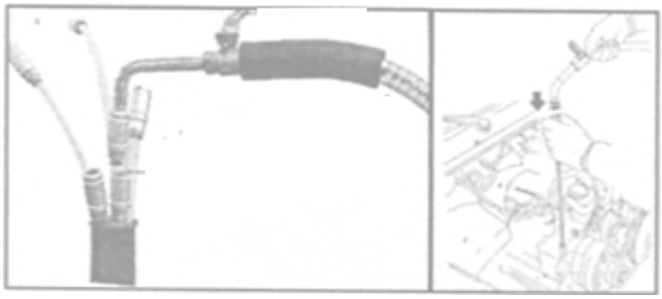
Measuring container

1. The machine's working pressure during vacuum pumping is 7–9 bar.
2. Check that all ball valves on the unit are closed.
3. Connect the air supply to the machine's inlet and open the air supply valve to pressurise the machine.
4. When the needle on the pressure gauge points to a position between the red and green marks, this indicates that the pumping process is complete.
5. Once pumping is complete, stop the air supply

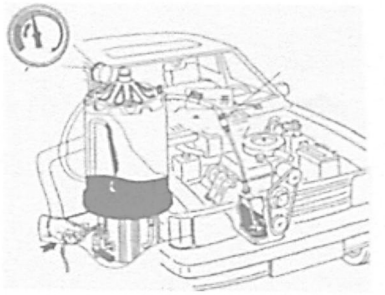
Note: If the unit is operating without an air supply, please empty it before putting it into operation.

II. Pumping waste oil

1. Ensure that there is a vacuum in the tank.
2. Select an oil extraction hose of the appropriate diameter, connect it to the hose according to the specific vehicle type, and insert the oil extraction hose into the vehicle's engine.



As shown in the illustration, open the ball valve on the hose to allow the waste oil to be drained.



Note:
Hold the protective sleeve on the hose whilst draining to avoid burns. Place the machine on a level surface before use to prevent it from slipping during operation. If the temperature of the engine oil being drained exceeds 60 degrees, serious damage to the machine's components will occur and the machine will be unable to function.

III. Draining waste oil

1. Drain the waste oil from the measuring container into the oil sump below it.
2. Open the ball valve beneath the measuring container; at the same time, open the ball valve on the oil suction hose to release the vacuum in the measuring container, after which the waste oil will flow from the measuring container into the oil sump.
3. Once the oil has been drained, close the ball valve and the ball valve on the hose.



The transverse position indicates that the valve is closed.
The longitudinal position indicates that the valve is open.

IV. Collecting oil in a sump

1. Raise the vehicle to a suitable height using lifting equipment.
2. Move the equipment into position beneath the vehicle's engine and align the sump with the engine's oil drain plug.
3. Ensure that the ball valve beneath the oil drain pipe is closed.
4. Open the ball valve beneath the collection pan (turn anti-clockwise; the longitudinal position indicates that the valve is open).
5. Open the mini ball valve to release the pressure in the reservoir.
6. Unscrew the vehicle's engine drain plug.
7. The waste oil is drained into the oil collection tank via the oil collection tray.

V. Completely draining the waste oil from the oil reservoir

1. Close all valves on the unit.
2. Insert and secure the oil drain hook into the external waste oil drum.
3. Connect the air source to the unit's air inlet.

4. Slowly open the mini ball valve. Build up pressure inside the tank; once the pressure required to drain the oil is reached, close the air supply. When the air pressure in the oil tank exceeds 1.0 bar, the safety valve will automatically release the pressure; at this point, you must immediately shut off the air supply to reduce the pressure in the storage tank to below 0.8 bar, otherwise serious accidents may occur.
5. Open the ball valve beneath the oil drain pipe to drain the oil.
6. Once the oil has been drained, disconnect the air supply; when the pressure in the tank body has been fully released, close all the valves on the unit.

Technical specifications

Product code: PT00198
Model: FF-6297
Tank capacity: 80 l
Working pressure: 8–10 kg/cm²
Approximate working pressure: 7.8–
9.8 bar Working oil temperature:
40–60 °C Measuring container
capacity: 10 l Adjustable height:
140–155 cm
Tank dimensions: 51 × 43 × 89 cm

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