Waste Oil Extraction Unit

75 l • 95 l

Operating Instructions



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04 616 A406 GB

PRESSOL

1. General Information

1.1 Intended use

This mobile unit has been designed to extract and to collect hardly inflammable, not waterbased liquids.

The use acc. to the requirements of the operating instruction is part of the recommended operation.

Any other operation exeeding these recommendations or not authorised constructional changes can cause serious danger and does not conform to this requirements.

The user is liable for any damages caused by unauthorised use.

1.2 Construction and description of operation

- Container with four wheels (two castor wheels), level indicator and handle
- Venturi-system, pressure indicator, suction hose with adapter to suit BMW (originally assembled), with adapters to suit Mercedes, VW/Audi and Smart and with suction probes
- Telescopic drain bowl, depends on model
- Compressed air connectors
- Discharge hose
- Safety valve

The container operates for extracting of liquids using a generated low vacuum and will have to be pressurized for draining. The vacuum will be generated by air pressurized operation of the Venturi-system.

The extracted liquid collects in the container.

1.3 Technische Daten

Art.- Nr.		**27 622**	**27 622 890**	**27 622 680**	**27 622 891**
Length	(mm)	600	600	600	600
Width	(mm)	580	580	580	580
Max. height	(mm)	930	1090	1750	2120
Weight (empty)	(kg)	35	40	38	43
Max. volume	(l)	75	95	75	95
Max. pressure	(bar)	0,5	0,5	0,5	0,5

1.4 Operation range

With this unit hardly inflammable, not waterbased liquids can be collected up to max. 80°C liquid temperature.

2. General safety information

2.1 Information concerning work safety

The waste oil extraction unit is designed and manufactured according the appropriate safety and health requirements of the EU guidelines concerning.

Nevertheless, any use contrary to the intended purpose can lead to serious risks.

For operation of the waste oil extraction unit pay attention to the local safety and accident prevention regulations in any case and pay attention to the recommendations of this operating instructions as well.

2.2 Explanation of the safety information used

The safety information used in this operating instruction differentiates between various risk levels. These risk levels are marked in this operating instruction with following signal words or pictograms.

Pictogram	Signalword	Consequences of not observing of the safety advises
	Warning	Eventionally death or most severe personal injuries
	Caution	Eventionally slight or medium personal injuries or damages to property

Tab. 2-1: Classification of the safety advises according to the kind and the heavyness of the danger

In addition another advise offering general information concerning the use of the product is included.

Pictogram	Signalword	Signification
	Information	Background knowledege or advises for the correct handling of the product

Tab. 2-2: General advise

2.3 Risks when using the waste oil extraction unit



Warning!

- The waste oil extraction unit is not desingned for collecting of highly inflammable liquids.
- Re-adjustments of the safety valve and air pressurizing of the container without utilizing the safety valve are strictly prohibited – risk of bursting!



Caution!

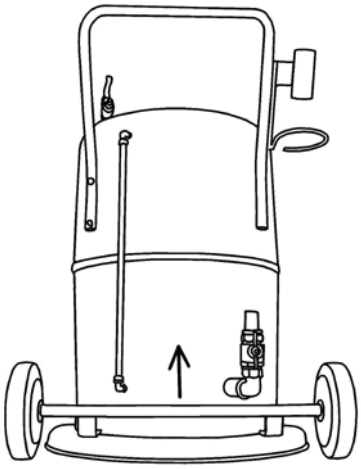
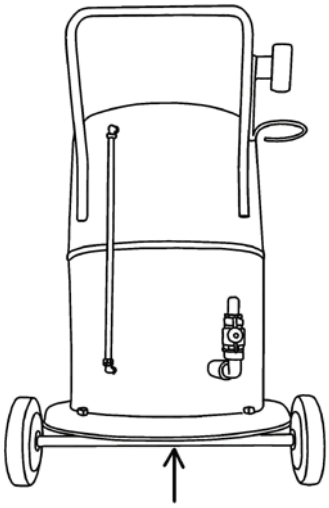
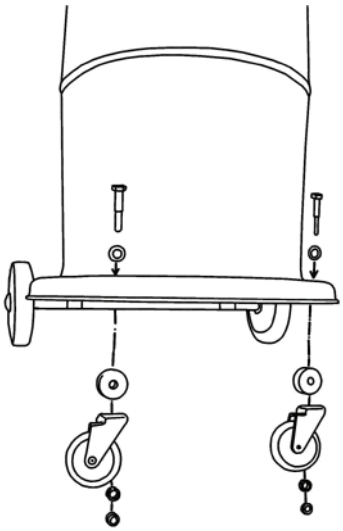
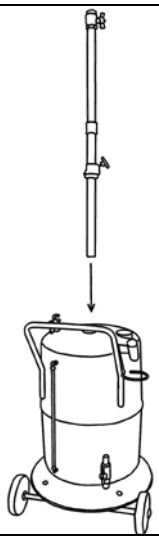
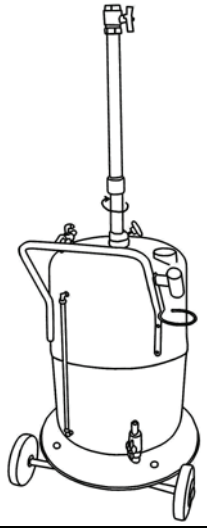
- Disconnect compressed air, release overpressure or vacuum generated in the container prior to manintenance in any case.

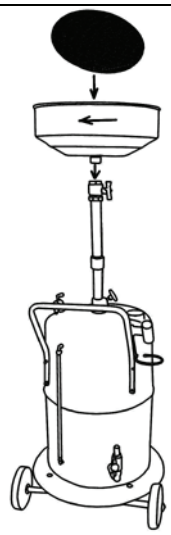
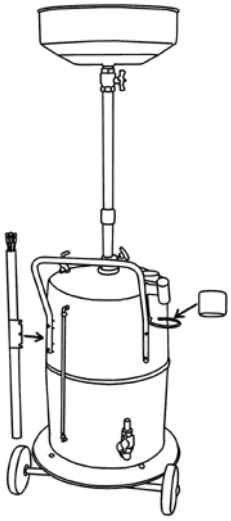
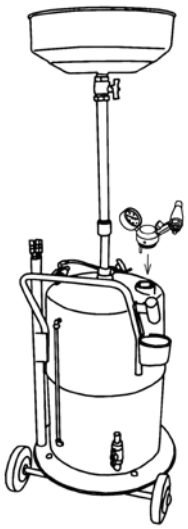
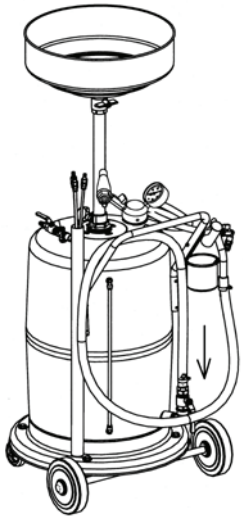
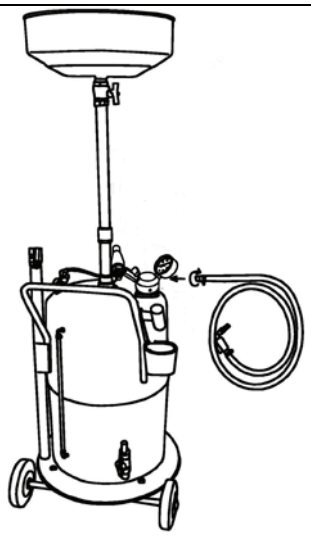
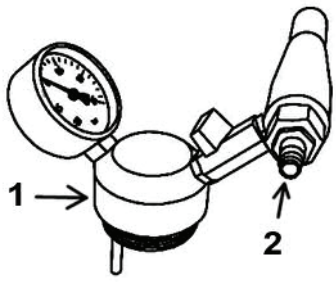


Information

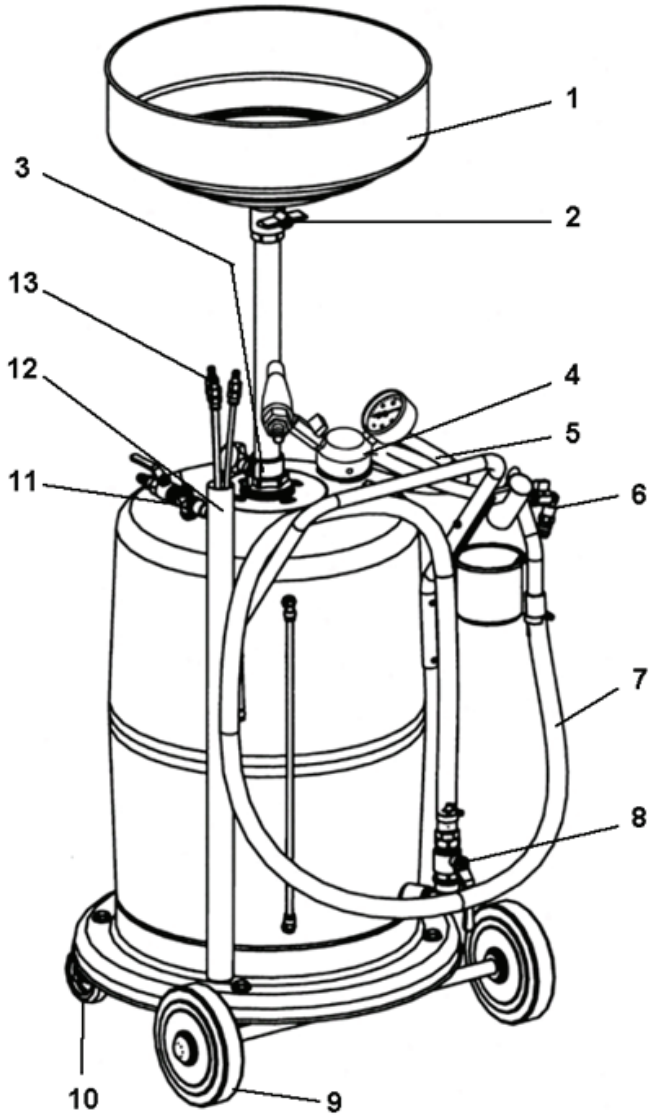
- The container is designed according to German regulation for pressurized containers section 2. According to this regulation regular inspections have to be effected by an authorised person only. The inspection intervals are subject to termination of the user. We recommend an inspection at least any second year.
- Pay attention to your local environmental safety regulations in any case.

3. Assembly

	Unscrew the pre-fixed axis with wheels from the container (SW 17) and re-assemble it on the bottom side of the container.	
	For castor wheels mounting assemble one distance plate each on the bottom side of the container between container and each castor wheel. Connect the castor wheels sliding on a metal bush and fix it with the safety nut. Connect filling tube with lock and connecting tube with lever ball valve.	
	Fix the filling tube together with the connecting tube in center of the container utilising the prepared thead-connection. **Prepare a leak-free thread connection!**	

	Connect the collecting bowl and complete it with the drain grill. Fix the oil drip tray on the prepared place and the suction probe storage tube on the fixation of the container handle.	
	Srew the entire Venturi-block into the thread-connection of the container. Assemble the discharge hose on the discharge tap of the container. **Make sure that the connection is fixed tightly!**	
	Finally srew the suction hose into the venturi-block (1). Plug for compressed air connection (2). **Pay attention to the tightness of the connection!**	

4. Replacement parts list



Pos.	Art.-No.	Description
1	04 487	Drain bowl
2	03 345	Lever ball valve
3	04 464	Clamping device
4	04 426	Venturi unit
5	04 408	Suction hose, complete
6	27 965	Adapter for dipstick tube for BMW, Ø 14 mm
	27 964	Adapter for dipstick tube for Mercedes, Ø 16 mm
	27 963	Adapter for dipstick tube for Audi/VW, Ø 8 mm
	27 968	Adapter for dipstick tube for Smart, Ø 10 mm
7	02 810	Reinforced hose, PVC
8	02 804	Ball valve
9	04 333	Wheel
10	04 332	Castor wheel
11	87 004	Valve complete
12	04 565	Suction probe storage tube

13	27 905	Suction probe 700 mm, Ø 5 mm, plastic
	27 906	Suction probe 700 mm, Ø 6 mm, plastic
	27 908	Suction probe 700 mm, Ø 8 mm, plastic

5. Initial start-up and re-operation

5.1 Extraction of liquids

- To generate the required vacuum shut-off all ball valves on the container (pos. 2, 11, 8) and the discharge nozzle on the suction hose (pos.5) completely.
- Open suction valve on the Venturi-system (pos. 4).
- Connect air pressure to the Venturi system. The air flowing through the Venturi system generates the required vacuum. (minimum compressed air pressure required for operation 7 to 8 bar).
- Disconnect the air pressure at a manometer pressure indication of a vacuum of -0,7 to -0,8 bar. This vacuum guarantees several suction processes.
- Connect suitable suction probe (Pos. 13) to the suction hose (Pos. 5).
  The suction probe with the biggest possible diameter to suit the vehicle's dipstick, provides the best performance. For optimal performance prepare for warm engine oil. Higher oil temperatures are lowering the viscosity of the oil to be extracted and improve the extraction performance. Attention: Max. recommended oil temperature for extraction is 80 °C (see safety instruction in part 2.3).
- A special extraction adapter can be used for vehicles utilizing a dipstick tube down to the bottom of the vehicle's oil sump pan. Adapters for Audi/VW, Mercedes and Smart are included. The adapter for BMW is already assembled on the extraction hose.
- Open the ball valve on the extraction hose after having inserted a suction probe or an adapter into the dipstick. Extract the oil until air bubbles are showing that drainage is completed.
  Make sure that the container capacity is sufficient for the quantity of oil to be extracted. Otherwise drain the container occasionally. (See next chapter).

5.2 Draining of the container

- Connect the discharge hose to a waste oil collecting tank (Pos. 7) in and secure against slipping off.
- Close ball valve on the extraction hose (Pos. 5).
- Open ball valves (Pos. 11, 8).
  Attention! When using versions with drain bowl be sure that the ball valve is shut-off.
- Connect air pressure to compressed air plug (Pos. 11), recommended air pressure 6 bar.
- Disconnect air pressure after drainage of the container is completed. The ball valve shall remain open (Pos. 8), until the overpressure is completely eliminated.

- Remove the discharge hose from the waste oil collecting tank and store it on the dispensing spout storage device.

5.3 Malfunctions

Malfunctions	Causes	Solutions
Vacuum cannot be generated	Ball valves are open	Check ball valves and shut them off
Extraction performance is not sufficient	The viscosity of oil is to high	Start engine to warm up the oil
	Suction probe is blocked	Clean the suction probe
	The vacuum in the container is not sufficient enough	Increase the vacuum or extract with compressed air permanentely connected to the Venturi system

6. Maintenance

The waste oil extraction unit requires low maintenace only.

Due to the general duty of the user following parts will have to be checked regularily to avoid environmental, personal or property damages:

We recommend to implement a safety-check of the product annually.

Component	Mode of test	criteria
Container	Check of tightness, sight test	Damage, corrosion, leakage
Safety valve	Sight test, functionability	damage, activation by overpressure (more than 0.5 bar)
Valve fittings	Sight test, functionability	Damage, free movement, leakage
Hoses circuits	Check of tightness, sight test	Cuts, knicks, excessive wear out, leakage
Entire product	Sight test, functionability	Completeness of equipment, full operation cycle

7. Repair/Service

The waste oil extraction unit requires low maintenace only.

If a problem occurs despite all quality precautions please contact your local representative or your PRESSOL sales department:

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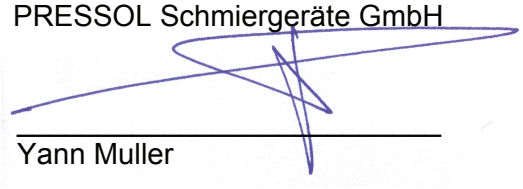
8. Declaration of the manufacturer

We herewith declare that the product described corresponds to the EU guidelines with regards to design and type of construction and as well to the version marketed by us. This declaration will loose its validity in case of any changes of the product being made without our agreement.

Product type	**Waste Oil Extraction Unit**
Typ	Art.nos. 27 622 27 622 680 27 622 890 27 622 891
EU guideline	EU guideline for machines (98/37/EG)

01.10.2008

PRESSOL Schmiergeräte GmbH



Yann Muller