

Smoke "Mate" E-VAP Diagnostic Leak Detector Machine

SP: Máquina detetora de fugas de diagnóstico E-VAP "Mate" de humo
PT: Máquina Detetora de Vazamento E-VAP para Diagnóstico de Fumaça "Mate"
DE: Smoke "Mate" E-VAP Diagnose-Lecksuchgerät
FR: Fumée "Mate" E-VAP Détecteur de fuites diagnostique
NL: Rook "Mate" E-VAP Diagnostische Lekzoekmachine
IT: Fumo "Mate" E-VAP Rilevatore di perdite diagnostico



Art. 2755-WW



Information

- Includes two test modes: EVAP mode and Smoke mode.
- EVAP mode diagnoses leaks through pressure gauges without the need to output smoke.
- Smoke mode helps to identify the exact location of a leak as it is controlled by a smoke generator that can be switched on if a leak is found.
- 2 built-in groups of high-power pumps, eliminating the need for additional air pumps or compressors.
- Oil level gauge for checking the amount and purity of the test oil.
- Flow meter and adjustable knob for observing and controlling the smoke flow.

Safety First

- Only operate if trained to do so.
- Read these instructions carefully and retain for future reference.
- Ensure the vehicle is properly supported with the wheels secured, in line with manufacturer's guidelines.
- Wear safety apparel while operating and keep hands away from moving parts.



Wear Safety Gloves



Wear Safety Glasses



Read Instructions

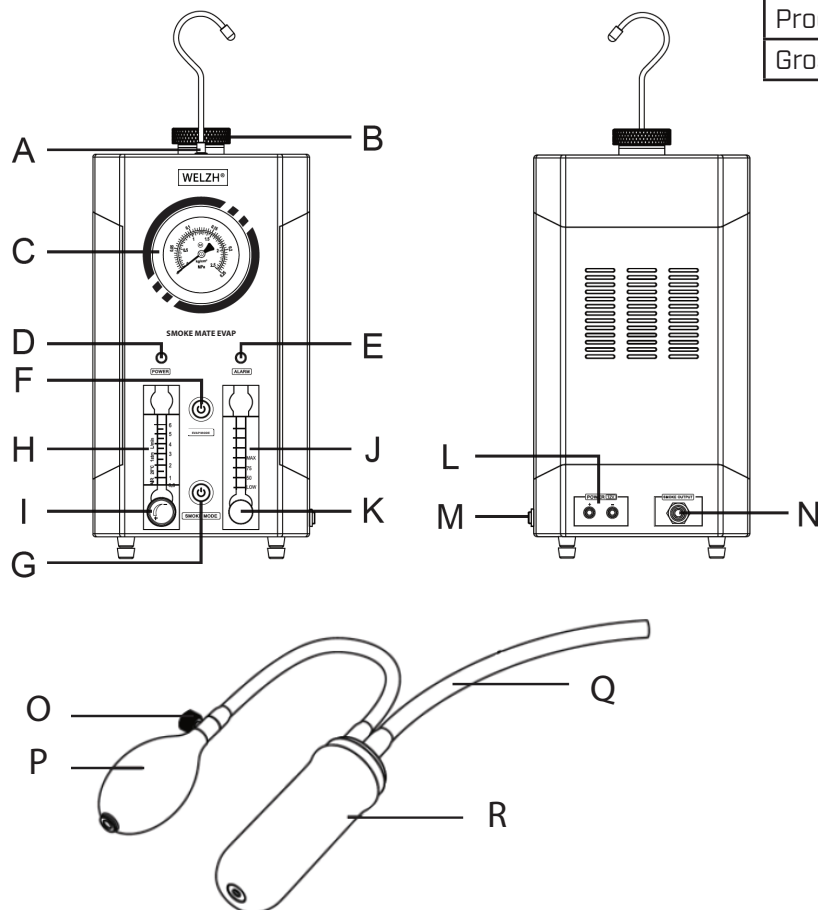
Safety and Precautions

- Do not make any changes to the device.
- The device should not come into contact with water or liquid as this will result in a short circuit.
- Use the power source and cord provided according to standards.
- The device should not be stored to high temperatures or intense light.
- Avoid smoke sensitive parts (i.e. headlight) when carrying out a detection test.
- The oil in the detector needs to be replaced on a regular basis. Prior to adding new oil, used oil must be drained.
- Ensure there is no water in the device and do not use any sticky liquid.
- For detection oil; liquid paraffin and baby oil are both adequate.
- Use the filling bottle with the capacity mark included with the accessories to fill in new oil.
- Too much test oil in the device may affect smoke output. If this occurs, discharge part of the e-liquid through the oil discharge port.
- It is recommended to drain out the remaining test oil for preservation especially if the device will not be in use for a long period of time.

Features

- Built-in air pump.
- Overheat protection.
- Pressure gauge.
- Protection indicator.
- Flow meter.
- Flow adjustment knob.
- Oil drain valve.
- Liquid level gauge.
- Air control switch.
- Smoke control switch.

Power Supply	DC 12V
Test Oil Filling Volume	10-20 ml
Rated Output Pressure	<18psi
Rated Output Flow	<6L/min
Rated Power	70W
Product Size	275x150x150mm
Package Size	275x220x255mm
Product Weight	3.5kg
Gross Weight	5.5kg



A	Hook port
B	Oil filler port
C	Pressure gauge
D	Power indicator
E	Protection indicator
F	EVAP mode switch
G	Smoke mode switch
H	Smoke flow meter
I	Smoke flow regulating valve
J	Level gauge
K	Oil drain valve
L	Power socket
M	Power switch
N	Smoke outlet
O	Pressure relief valve
P	Hand pump
Q	Smoke duct
R	Airbag

Step 1

- Place the hook (A) onto the hook port under the hood of the vehicle.
- Open the oil filter cap (B) and fill 10 ml test oil into the port. The amount can be checked through the liquid level gauge (J).
- In case of overfilling, drain some oil through the drain outlet (K).

Step 2

- Connect the smoke hose to the smoke outlet (N) and the power cord to the power socket (L).
- Connect the power clip to the DC 12V battery. Switch on the power switch (M). The power indicator light should light up (D).
- Connect the read clip to the positive terminal (+) and the black clip to the negative terminal (-).
NOTE: The vehicle's battery should be fully charged before carrying out this procedure for better results.

Step 3

- Turn on the EVAP mode switch (F) for the device to start emitting pressurized air.
- Turn on the smoke mode switch (G) for the device to start emitting smoke.
- The smoke flow meter (H) and the smoke flow regulating valve (I) can control and help check smoke output.

Step 4

- The device will commence the self-protection function and automatically switch off when the internal temperature reaches 75 degrees.
- Switch off the smoke control switch (G) to stop smoke output.
- Drain remaining oil.
- Switch off the engine ignition switch.

Automobile Pipeline Inspection

CAUTION: The engine must be turned off while carrying out this procedure.

Step 1

- Remove the intake air filter (**Note:** Some vehicles require removing the throttle valve).
- Clean the inner wall of the test pipe. Connect the conical adapter of the air inlet on the test pipe.
- **Note:** The device is powered by DC 12V car battery only.
- The cone on the smoke outlet pipe has air pressure output when the EVAP mode switch is turned on.

Step 2

- Switch on the smoke control switch. The indicator lights should light up. After 10 seconds insert the cone head on the smoke outlet pipe into the air inlet taper adapter when the smoke thickens.
- After about 1-2 minutes, use a flashlight to locate the leaks in the pipeline and diagnose them.

Step 3

- When the test is completed, switch off all switches. Recycle the remaining oil, and check there is no omission.
- **Note:** If only one part of the system needs to be tested, or if the system tested has other openings that need sealing, use a plug kit that can be used to seal the intake manifold.
- The device will commence the self-protection function and automatically switch off when the internal temperature reaches 75 degrees.

Information

Airbag Adapter

Airbag adapters are suitable for non-circular connections. For round and oval ports, use the inlet tapered adapter for normal cases.

Step 1

- Clean the inner wall of the intake manifold (or other test interfaces) before using the airbag adapter to prevent sharp protrusions from piercing through the airbag adapter.

Step 2

- Connect the air bad [Z] into the test port.
- Press the hand pump [X] until the airbag [Z] inflates and fully seals the test port.
- Connect the smoke guide pipe [Y] the cone head on the smoke outlet pipe with. Insert gases and smoke into the duct to be tested.

Step 3



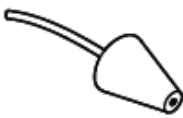
- After the test is carried out, turn the pressure relief valve [W] left (counter clockwise), take out the car air inlet adapter from the test port. Clean it and save it.

Note: Airbag adopter can not contact with corrosive oil.









Maintenance

- Avoid having the device come in close contact with rough surfaces as it will wear it (specifically the sheet metal housing).
- Perform regular checks for any parts that need to be tightened or connected.
- Parts of the device that come in contact with chemicals must be treated regularly with anti-corrosion treatment (i.e. rust removal and painting). This is to improve corrosion resistance and extend the service life of the device.
- Do not overload the equipment and comply with safe operating procedures.
- Check the circuit part and replace any aging wires.
- Clean and replace consumable parts on a regular basis (i.e. oil pump and oil filter). Replace any worn parts and adjust the clearance of any parts that require adjustment. Avoid contact with any corrosive liquid.
- The device should not be stored to high temperatures or intense light.

Accessories

Accessories	Name	Use
	Power cord	Connect to car battery
	Smoke outlet hose	Connecting adapter
	Cone adapter	Installed on the detected pipeline

Accessories

	Valve core wrench	Removing the valve core
	EVAP connector	For connecting EVAP service port
	Filling bottle	For checking filling amount
	Universal airbag adapter	To seal the air inlet
	Universal hard rubber plug	Blocking the pipe
	Universal small adapter	For detection of small pipes
	Hook	For installing the unit
	Universal rubber plug	For sealing the hose

Warranty

Limited 12 month warranty from date of purchase. If you are unsure on how to use the item please contact us. If it were to fail due to a manufacturing fault or poor workmanship we will repair or replace it. Please contact your local dealer in the event you need to send the item back. You can also make a repair/replacement request on our website and download & complete the form online. Normal wear and tear along with misuse will void any warranty. Consumables are not covered under warranty.

www.welzh.com



Welzh Werkzeug Ltd
 Loanwath Road
 Gretna, Scotland
 DG16 5HD
 United Kingdom
 +44 (0)1461 700120

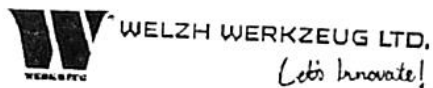
EU DECLARATION OF CONFORMITY

Certificate Number: TB181020083
Equipment under test (EUT)
EUT Name: Smoke "Mate" E-VAP Diagnostic Leak Detector Machine
Model number: 2755-WW
Receipt Date: 2018-09-09
Test Date: 2018-09-09
Issue Date: 2018-09-09
Standards: 2011/65/EU&2015/863/EU;
IEC 62321: 2013/2015/2017.
Conclusions: PASS

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the 2014/30/EU directive requirements



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.



Gretna, United Kingdom
DG16 5HD