Technique reference numbers

| Model | Number of Stages | Free Air Displacement | Ultimate Vacuum |
|---|---|---|---|
| 4.5CFM | 2 Stages | 4.5CFM | 25Microns |
| **Model power Supply** | **Rotating Speed** | **Motor** | **Weight** |
| 230V/50HZ | 1400r/min | 1/3HP | 13KGS |

# 4.5 CFM VACUUM PUMP

# Using instructions

## Pump use

Vacuum pumps are designed to obtain vacuum by pumping gas from sealed containers. They are suitable for use with R12, R22 and R134a air Conditioning systems, as well as medical appliances, printing machinery and vacuum packing.

## User's Manual

Examine the oil-level before using to make sure the oil-level is not lower than the oil-level line. If lower than that, oil should be added without delay. This pump uses vacuum oil of HFVZS-40.

Take down the gas-filling cap and connect the pumped container And the pipe should be short, sealed and there shouldn't be any dripping.

Take down the exhaust cap, plug in the power supply and switch on position.

Pull out the plug after using, remove the connecting hoses and cover the exhaust cap and oil plug after using.

## Features

**Oil Anti-flowback Design**

The gas inlet is specially designed to prevent the oil from flowing back, Preventing the container being pumped as well as the houses from becoming polluted.

**Environmental Design**

The tank is separated and there are separating devices at the exhaust port. It can avoid oil-spraying and reducing pollution.

**Maintenance**

Keep the pump clean and prevent foreign mater from entering.

Keep the oil level. Don't let it run without oil.

Keep the oil clean.

To store the pump when not in use for long periods of time, cover the oil cap and exhaust cap and store it in a dry place.

## Repair

| Problem | Causes of breakdown | Correction |
|---|---|---|
| **Low Degree of Vacuum** | 1. Lack of oil<br>2 .Oil is not lean<br>3.The hoses or gas inlet are clogged<br>4.The oil inlet is blocked | 1.Add oil to above the oil level line<br>2 .Change the oil<br>3.Check the connecting pipes<br>4.Clean the oil inlet or lean the filter |
| **Oil Leaks** | 1.The oil seal is damaged<br>2.The housing gasket is lose or worn out | 1.Change oil seal<br>2.Change to a bigger pump |
| **Oil Spray** | 1.Too much oil<br>2.The pressure at the gas inlet is too high or it has pumped too much | 1.Oil to the oil-level line<br>2.Change to a bigger pump |
| **Starting Difficulty** | 1.The oil temperature is too low<br>2.Electrical malfunction<br>3.Foreign matter is the pump | 1.Start the pump several times to try to heat the oil<br>2.Check and have it fixed<br>3.Check and remove it |

## Cautions

Don't pump flammable, explosive or poisonous gases.

Don't pump gas that can corrode metals and exert chemical charges.

Don't pump gas containing any dust or moisture.

Don't use vacuum pump as a compression pump.

Pump can't be run without oil.

Keep electrical cord free from all shop equipment, and do not let pump hang by Power cord.

Don't plug or pull out the plug with wet hands.Don't use damaged plug or outlet.

Don't plug unit in , unplug unit or use switch if there are any flammable or explosive gases present.

**Repair of pump should only be done by experienced repair facilities.**