

Pro-Vac 100-T

Mineral Vacuum Pump Oil
with E.P.T.

Vacuum Pump Operation

The operation of a Vacuum Pump is similar to a compressor but in reverse. The rotation of the pump rotor, which is mounted eccentrically in the pump cylinder, traps entering vapour between rotor vane segments. As rotation continues, vapour is compressed and discharged into the exhaust box. Vapours then pass through several stages of internal oil and mist eliminators to remove 99.9% of lubricating oil from the exhaust. Oil is then returned to the oil reservoir.

Vacuum Pump Types.

There are a number of designs ranging from the reciprocating piston type for rough industrial vacuum, to the general oil sealed rotary vacuum pump, and the high vacuum diffusion pump.

Not all vacuum pumps use oil.

Vacuum pumps are commonly used in industrial applications such as Food Manufacturing and for evacuating refrigeration and air conditioning systems.



Smaller vacuum pumps (left) are used to service vehicle air conditioning systems.

Vacuum Pump Oil.

Pro-Vac 100-T is designed specifically for reciprocating and rotary type pumps and meets the special requirements necessary for effective operation and long life.

The primary requirements of the oil are high resistance to oxidation, wear protection, the correct viscosity, a low vapour pressure and protection of the pump against corrosion.

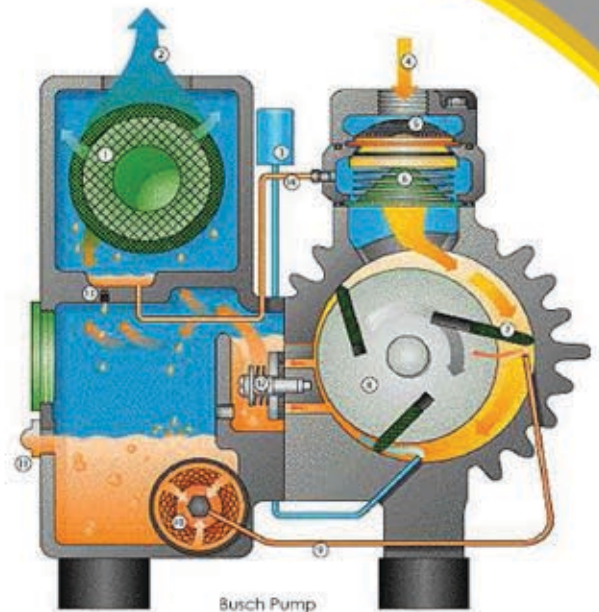
Pro-Vac 100T is made from a paraffinic mineral base oil, solvent refined and hydrogenated. It has a viscosity of approximately 100 cSt at 40°C and contains anti-oxidant, anti-corrosive and anti-foam treatment. The single base oil used in this formulation has a distillation range of 420°C - 540°C giving excellent stability and a low vapour pressure.

This combination of features ensures long pump life due to the anti-wear treatment in the oil and protection against corrosion caused by moisture entrained in the gas stream. Used in quality equipment, absolute pressures down to one hundredth of a millibar can be attained.

Note: 10 mbar = 1 Pascall = 7.5 micrometres Hg.

Summary : Pro-Vac 100T

- Low vapour pressure
- High oxidation resistance
- Good wear protection
- Excellent corrosion resistance
- Viscosity 100 cSt at 40°C (SAE 30)



1. Oil Mist Eliminator
2. Exhaust
3. Gas Ballast
4. Inlet
5. Inlet Screen
6. Anti-Suckback Valve
7. Vane
8. Rotor
9. Main Oil Feed Line
10. Spin-On Oil Filter
11. Oil Sight Glass
12. Exhaust Valve
13. Oil Return Valve
14. Oil Return Line

Pro-Ion PTFE (Victoria) "Energy Efficient Lubricants"

35 Pelmet Crescent, Thomastown Victoria 3074. P.O. Box 416, Epping Victoria 3076.

Ph: 03 9462 0941 Fax: 03 9469 5660 email: info@pro-lon-ptfe.com web: www.pro-lon-ptfe.com