

SERVICING ROTARY VANE PUMPS

www.edwardsvacuum.com/en/service-solutions.com

Rotary vane vacuum pumps are a technology that is tried and tested in the market and have been an integral part of the vacuum world for decades, being used for a wide range of applications. While well maintained rotary vane pump may last for years, **if maintenance is neglected the lifetime of the pump decreases significantly**. The good news is that **basic maintenance can be done on-site** by any experienced and trained technician.

Edwards Vacuum, as a pioneer in the development and manufacture of rotary vane pumps, offers a wide range of pump sizes, from 0.7 m³/h-1 to 275 m³/h-1. To keep your rotary vane pumps running at optimal performance, **follow the simple maintenance tasks below:**

Oil change

Since rotary vane pumps use oil in the swept volume, **regular oil change is essential** to keep the pump running. General recommendation is to change oil every half a year, but may be required sooner or later depending on how often the pump is used and what process gases run through the pump. An easy indication that the oil change is required is the colour of the oil. New oil is transparent. As the pump is being used, the oil colour gets darker. **Once the colour reaches the shades of amber, it's time to change the oil**. Never allow the oil colour to reach the shades of dark red or black as this may lead to pump failure and a complete overhaul in a service technology centre.

The **recommended oil to use** with Edwards rotary vane pumps is **Ultragrade PERFORMANCE oil** which will ensure your pump runs at optimal performance. Ultragrade PERFORMANCE oil is processed without contamination or dilution and is then triple refined to the highest level of purity. It is not recommended to use non-Edwards low viscosity oils which will negatively affect the pump speed, ultimate vacuum and eventually lifetime of the pump.



CHECK IT.



CHANGE IT.



DON'T OVER BREW IT!

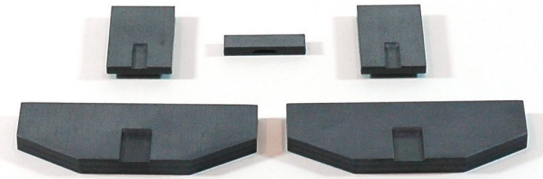


Clean & Overhaul

Every rotary vane pump requires regular **replacement of wearable parts** such as o-rings, gaskets or seals. Without this, the sealing capability of the pump decreases and the performance of the pump starts dropping. **The interval for Clean & Overhaul depends on the size of the pump**. Larger pumps with pumping speeds 40 m³/h-1 and higher require the clean & overhaul maintenance every year. Smaller pumps with pumping speeds up to 28 m³/h-1 can run well for two years before clean & overhaul is required.

Major Overhaul

Rotary vane pumps are built on the technology of **rotating vanes**, also known as blades. Since the vanes are moving parts and are exposed to process gases, regular replacement is required. **The vanes replacement** is recommended to be done together with the Clean & Overhaul maintenance and is required once per 3 years for the larger pumps (40 m³/h-1 and higher) and once per 4 years for the smaller pumps (up to 28 m³/h-1).



Beyond major overhaul

If you keep your pumps maintained as described above they will run at optimal performance delivering the best results. Should anything happen that cannot be rectified by these maintenance activities, Edwards offers various options to keep your vacuum up and running with the shortest possible interruptions. From repairs in our service technology centre to replacing your pump with a refurbished or new unit.

Pumps' care programs

Remembering which kind of service is required for which pump may be impractical, especially if more pumps are on site. Sign up for our Kits Care program and you will be receiving the right kits from us at the right time. Or you can decide to leave the maintenance of your vacuum pumps completely on us to ensure they are maintained in the right way. Find out more about our Service plans [here](#). Your local sales representative will be happy to discuss available options for your installation.

Contact us

For any inquiries regarding servicing your vacuum pumps, including price & availability of spares kits, training for your technicians or Pumps' Care programs.

CONTACT US

+44 (0) 8459 212 223 or UkService@edwardsvacuum.com

Edwards Ltd, Innovation Drive, Burgess Hill, West Sussex, RH15 9TW, UK

Company registration number 6124750 (England and Wales).

© Edwards Limited 2018. All rights reserved. Edwards and the Edwards logo are trade marks of Edwards Limited.

