



iROTAVAC

PUMP TECHNOLOGY

The Milfos iROTAVAC package has been designed for the increasing size of dairy parlours that require greater reliability and performance.

The iROTAVAC range features a total of seven packages that delivers airflows of 2200 to 8000 litres of free air at 50kPa.

The system is supplied as a kitset package that has been well engineered for easy on-site assembly and installation. The belts and pulleys are located behind a solid safety guard. Adjustable feet allow accurate alignment of the pump frame to ensure the assembly is square and level.

The pump is based on a tri-lobe principle. The lobes are rotated at high speed to create a continuous and stable airflow. Fine pump tolerances ensure the lobes never touch and therefore they do not require any lubrication. This means that the iROTAVAC is a good for the environment for a number of reasons;

1. Energy efficiency
 - a. The iROTAVAC creates more air per kilowatt than other types of vacuum pump on the market
2. No oil lubrication
 - a. Which means no ongoing lubrication costs and environmental spillage
3. No water
 - a. Is required for lubrication or creation of a vacuum seal ring or cooling



QUIET EXHAUST SYSTEM

The iROTAVAC features a unique twin exhaust system. The primary muffler has insulating material and internal baffles to defuse the sound waves coming from the pump. The design effectively cancels much of the noise generated. The secondary silencer further reduces the noise and drone generated by lobe type pumps. This ensures the pump operation is quiet and operates within industry noise guidelines.

INTERCEPTOR SYSTEM

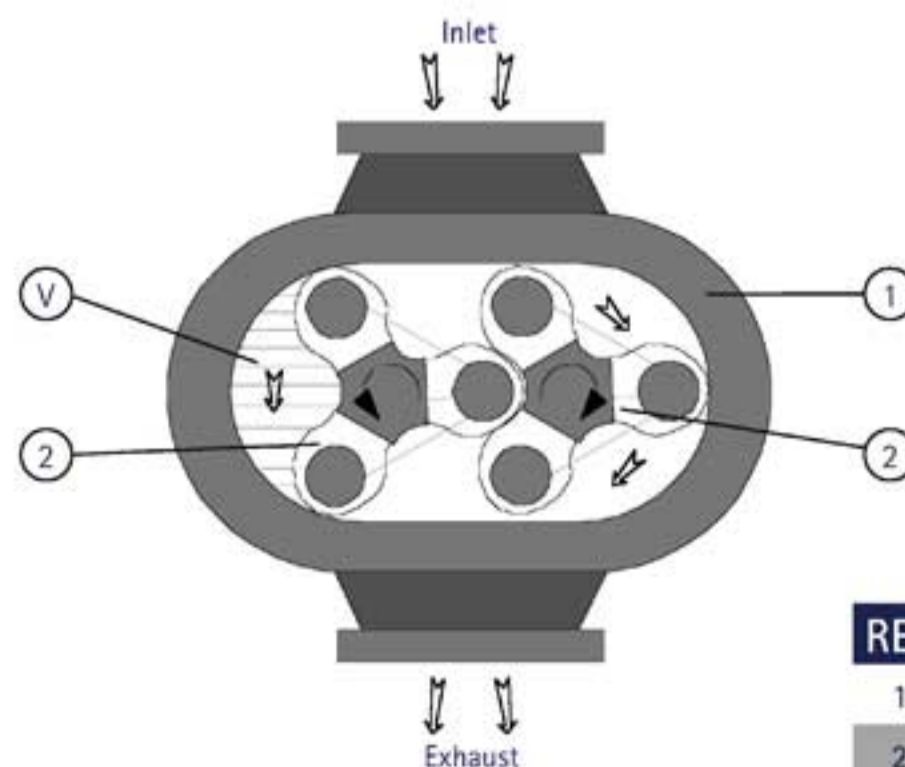
A large interceptor is used as the last line of defence between the milking system and pump. Internal baffle dividers use a centrifugal principle to separate moisture from the air travelling through the vessel. This is important for longevity of the pump as hot detergent vapours generated at washing time can cause harmful corrosion. The interceptor has connection points for the pump and main airline plus testing ports. It also features an automatic drain to allow condensed vapours to drain away when the system is not under vacuum.

iINTELVAC

Milfos recommend the iROTAVAC is fitted with an iINTELVAC for further energy saving. The iINTELVAC is designed specifically for use with iROTAVAC (see [7.4.9](#)).

DESCRIPTION	NO. OF CLUSTERS	MOTOR SIZE	LITRES/ MIN FREE AIR	MODEL
iROTAVAC 4000 Series	16 – 28	11kW, 3ph, 50/60HZ 2 Pole	2250	VPB8100
iROTAVAC 4000 Series	30 – 42	15kW, 3ph, 50/60HZ 2 Pole	3350	VPB8110
iROTAVAC 4000 Series	44 – 50	15kW, 3ph, 50/60HZ 2 Pole	4000	VPB8120
iROTAVAC 8000 Series	52 – 58	15kW, 3ph, 50/60HZ 2 Pole	4650	VPB8130
iROTAVAC 8000 Series	60 – 68	18kW, 3ph, 50/60HZ 2 Pole	5450	VPB8140
iROTAVAC 8000 Series	70 – 78	22kW, 3ph, 50/60HZ 2 Pole	6250	VPB8150
iROTAVAC 8000 Series	80 – 100	30kW, 3ph, 50/60HZ 2 Pole	8000	VPB8160

Operating Principle



REF	DESCRIPTION
1	Outer casting
2	Tri-lobe rotor
V	Vacuum