



JR TECHNOLOGY
LIMITED

REINFORCED PLASTICS & COMPOSITES
PRODUCTION ENGINEERS

VACUUM PUMPS &
VACUUM SYSTEMS

J R TECHNOLOGY LIMITED supply a range of vacuum pump & tank sets, which incorporate the pumps & reservoirs as a complete, ready to use & simple to install system. These units can be used for a variety of applications & are ideal for replacing a number of separate units or as mobile / stand alone systems.

There are many options available with a number of different size pumps & tanks to select from. Most units fall into the following categories:

- Single Pump System:- the pump evacuates the reservoir to a pre-set, adjustable level on start-up. With no vacuum demand, the pump switches off until the pressure rises to the top limit, when it will automatically switch back on & the receiver is re-evacuated.
- Double Pump System:- these systems are designed to either operate the two pumps together or operate them individually as required. The additional pump offers a duty/standby facility or the ability for both pumps to operate on peak demand.



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When short process times are a requirement automatic vacuum regulators are incorporated into the systems to prevent the pump driving motors from switching on & off too regularly.

Backup generators are also available, with options of gas, petrol or diesel supply & these can also be provided with auto & self start facilities.

When to specify a compressed air or vacuum tank system

Many find it difficult to decide whether to use stand-alone pumps or complete tank packages for their applications.

The tank system offers many advantages, which satisfy:

- **High Volumes** If your application requires an instantaneous supply of high pressure or vacuum, then the reservoir provided by a tank system is essential. Even the largest of pumps has to start at atmospheric pressure & therefore will not be able to give that instantaneous supply of pressure/vacuum
- **Longer Pump Life** A tank system makes it possible to utilize two pumps on one tank. Add a pressure switch & alternator control to start/stop the pump(s) only when needed. This allows letting the pump cool down and “rest” between cycles to prolong operating life.
- **Cost Savings** Using a tank system can reduce initial maintenance & replacement costs. Here’s why: Applications that require high volumes of air in intermittent cycles can use relatively small pumps. The longer the interval between cycles, the more applicable a tank system can be. For example, a 1 HP compressor on a tank can supply the same amount of flow for one minute as a stand alone 10 HP compressor.
- **Quiet Operation** In a tank system the pump runs on demand, which means that it is not operating a good part of the time. No operation, no operating noise.
- **Central System** Small industrial shops where different tools are required at different times find tank systems ideal, since one tank system can supply air to multiple locations.

