GREGORY SEWAGE EJECTORS

Reliable, Clean and Odour Free

Supplied and Serviced by CLS Pump Services

Sydney, New South Wales

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DESCRIPTION

The sewage ejector can be described as a rugged, dependable, non-clogging pump unit especially designed to handle solids in suspension, such as sewage and trade waste.

The sewage ejector is a clean, odourless and environmental clean method of handling and pumping sewage.

An exclusive feature of the ejector is its ability to supply air pressure to the pot and to vent the pot after discharge through a single air line from the pot to the compressor, without the use of additional valves or other equipment.

The ejector is capable of discharging up to 250 litres of raw sewage in 30 seconds or less or 500 litres in 45 seconds, depending on the pot or pump size and discharge head pressure.

When discharge is completed, the rotary compressor is stopped while the pot is refilling. When the pot is refilled, the compressor starts up and the cycle is repeated.

Convenient installation

Ejectors can be supplied as single or duplex units or as required.

APPLICATION

Sewage ejectors are used to pump sewage from levels below the sewer main.

Commercial buildings, apartments, hotels, hospitals, schools, universities etc.

The application here is with particular emphasis on modern buildings with several basements below the sewer main.

In this layout the pots may be placed on the floor or in a pit. It is preferable, where possible, to place them on the floor because it eliminates the need for confined space entries and costly excavations.

The compressors can be installed in any convenient place, above the pots, either on floor level (if a pit is excavated) or on a bracket or shelf above the pots.

EJECTOR POTS

250 litre pots of cast iron construction.

250 litre pots

500 litre pots fabricated from stainless or mild steel.

500 litre pots

COMPRESSORS AND MOTORS

The compressor used is a liquid ring type, with bronze wet end components. The NASH liquid ring compressor is the recommended unit for this type of system. Two or four pole, three phase electric motors are supplied with each compressor and will vary in size with each application.

Compressor setup

FLOAT SWITCH

The compressor is controlled by a magnetic type float switch which when in the closed position calls for the compressor to start.

The float is stainless steel and is positioned to be cleaned by the air and water from the compressor at each operation.

Float Switch

VALVE BOX

The valve box is cast iron and contains the inlet and outlet swing check valves which are clapper type bronze construction with bronze seats. Can pass up to a 90 mm sphere.

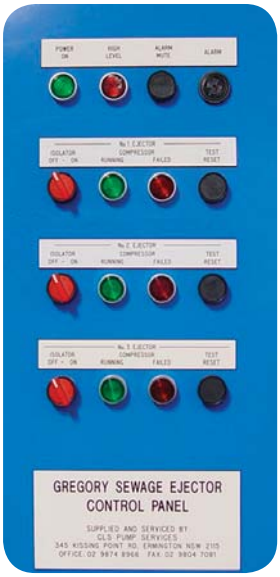
The top of the valve box has inlet and outlet covers which can be easily removed for access to the valves.

CONTROL PANEL

Controls are designed for up to 30 starts per hour.

Interlocks are provided to ensure that compressors do not start at the same time, in the case of duplex or multiple ejectors.

BMS, no volt contacts are supplied as standard. In addition, panels can be made to specific requirements.



Control panel

THE OPERATION OF THE GREGORY SEWAGE EJECTOR