



## EFFICIENT, DEPENDABLE SOLIDS-HANDLING SEWAGE PUMPS

### UNIQUE MOISTURE SWITCH

Protects motor should any leakage penetrate the motor housing, thus avoiding motor damage.

### CLASS F INSULATION

Air-filled squirrel cage motor.

### EXTERNAL AXIAL ADJUSTMENT

Impeller clearance adjusts quickly and easily by turning three external screws. No disassembly or replacement parts are necessary.

### PATENTED CABLE ENTRY SEAL

Prevents moisture from entering the motor. Unique cable grip prevents cable from dislocating and allows easy cable replacement with common hand tools. No potting is required.

### THREE THERMAL SWITCHES

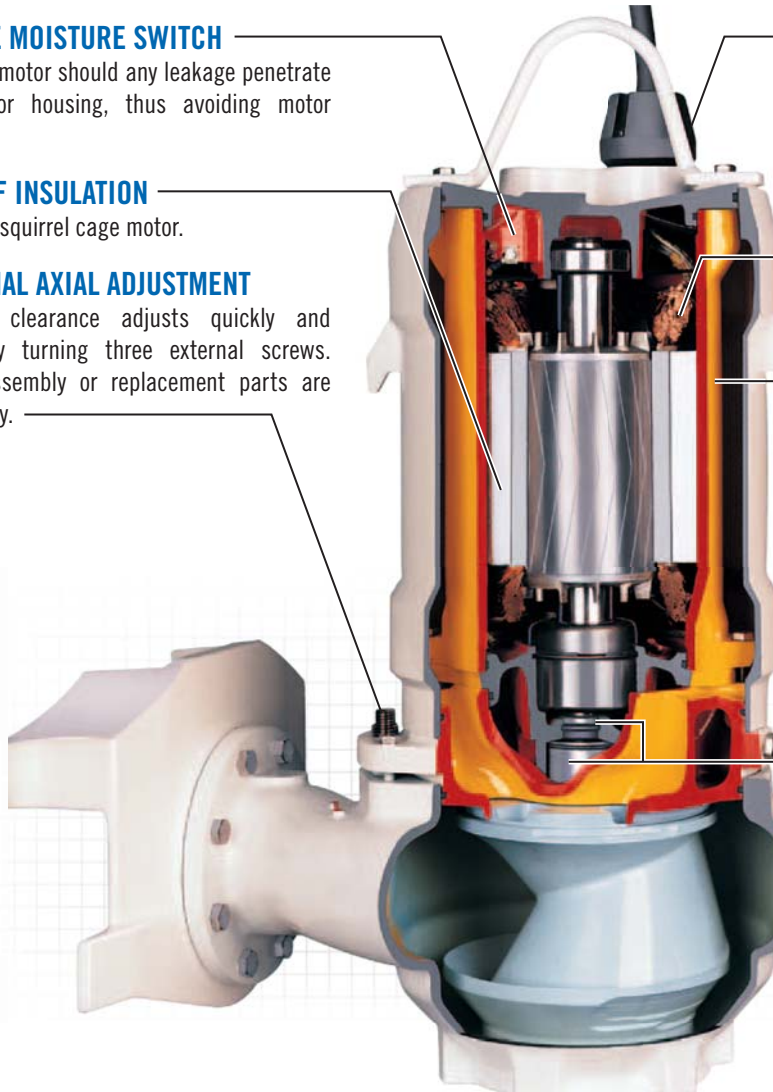
Imbedded in each stator to protect the motor from overheating.

### RELIABLE COOLING SYSTEM

With the cooling jacket, cooled water is taken from the liquid to be pumped and is circulated around the motor. The pump out vanes on the back side of the impeller, along with the close clearances, keep solids and debris from entering the circulation ports. The heat from the motor is transferred to the seal housing which is cooled by the liquid being pumped.

### DOUBLE MECHANICAL SEALS

Tandem seals located in oil cavity between impeller and motor provide double protection against moisture entering the motor. Seals have sliding rings with lower seal of silicon carbide surfaces for long life. Oil chamber ensures efficient cooling of seals.



### AUTOMATIC CONNECTION TO THE DISCHARGE PIPE

Slide rail pumps are lowered into the sump along two guide rails and are connected automatically to the base plate and released automatically when the pump is lifted.

The slide rail guide shoe, which is equipped with an integral neoprene seal ring, provides 100% tight connection between the pump and the discharge flange. The seal ring is easily replaced in the event of wear. There is no need to enter the wet well or replace base plate.



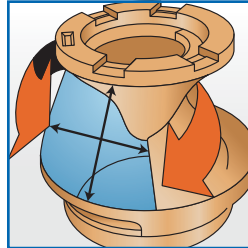
# GORMAN-RUPP PUMPS J SERIES®

## SEMI-AXIAL FLOW SUBMERSIBLE PUMPS



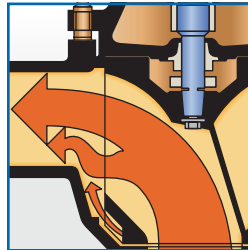
Gorman-Rupp has over 300 models of J Series submersible pumps in 3" to 20" discharge sizes, capacities to 15,000 GPM and heads to 265 feet, from 6.2 to 215 hp.

These pumps are designed specifically for solids-handling applications and incorporate several engineering features that prevent jamming and clogging, the two most common problems in pumping liquids containing solids.



### LARGE SOLIDS PASSAGE

Impellers have a large free passage that will handle up to 5.5" diameter spherical solids, depending on pump model. Semi-axial flow impeller design has long screw-like vanes for handling long rags and other debris.



### NO JAMMING

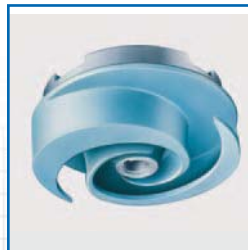
Self-cleaning axial flow impeller forces rags and debris away from the clearance between the impeller and volute to prevent jamming.

## WINGLET VANE VORTEX SUBMERSIBLE PUMPS

J Series Winglet Vane Vortex pumps are ideal for pumping solids against high-heads at low rates of flow.

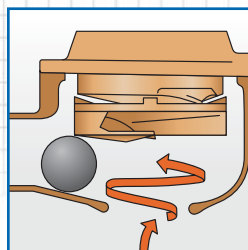
They combine the solids-handling capability of a vortex pump with high-efficiency, non-overloading motor characteristics and steep performance curves not found in conventional recessed impeller pumps.

Winglet Vane Vortex pumps will handle solids up to 4" diameter. They are available in 3" and 4" sizes and will pump up to 850 GPM and heads to 145 feet, from 2.7 to 17 hp.



### UNIQUE WINGLET VANE VORTEX IMPELLER

The patented Winglet Vane Vortex impeller design has winglets which reduce the formation of vane eddies, resulting in a significant increase in pumping efficiency and head.



### NO CLOGGING DESIGN

The major passage of liquids and solids is outside the impeller. Flow disruptions from the vane leading edges are eliminated and a smooth, free passage of solids without clogging is accomplished.

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