

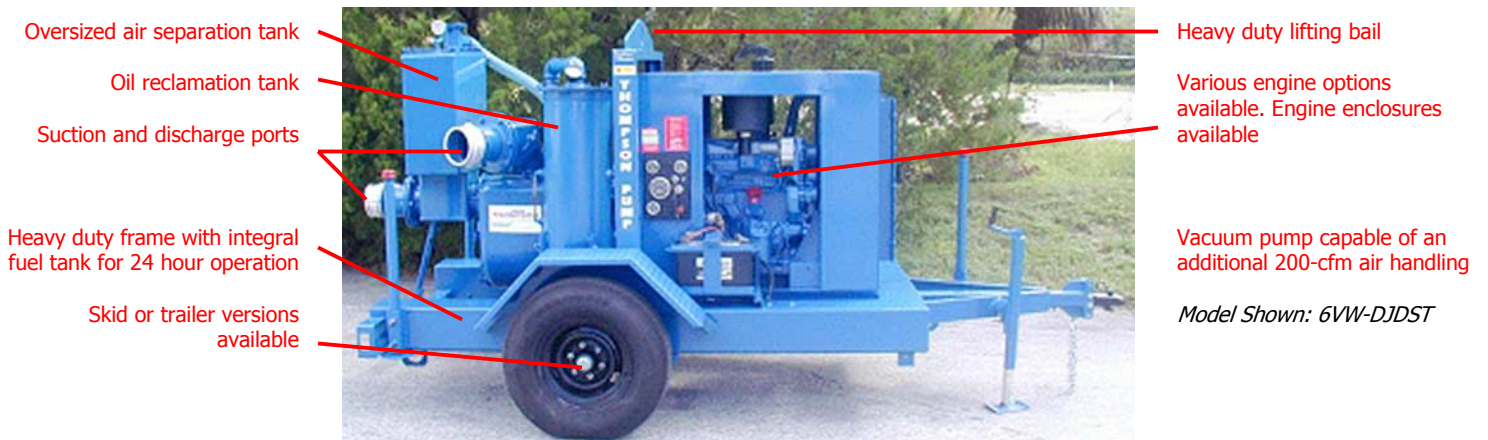


# MULTI-PURPOSE VW SERIES VACUUM WELLPOINT PUMPS



***Vacuum Wellpoint Pumps offer both solids handling and air handling making it a valuable and versatile pump***

Engineers have designed one of the industry's most versatile pumps by combining the vacuum-assisted priming system with wellpoint pump technology to create the VW Vacuum Wellpoint pumps. The VW pumps pack a powerful one-two punch with their solids handling capability for trash and sewage applications, and their high air handling capability for wellpoint and sock applications. This makes the Vacuum Wellpoint Pump a valuable, multi-purpose piece of equipment



*Model Shown: 6VW-DJDST*

## FEATURES

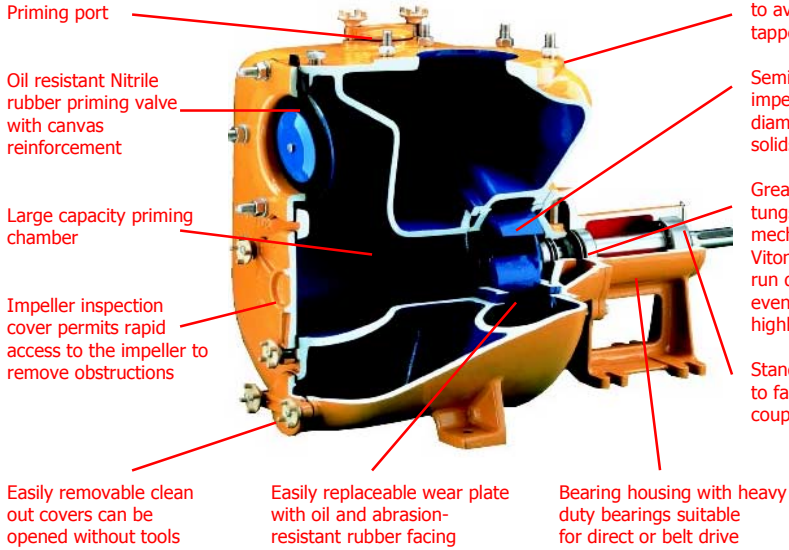
### ***All the features of V Series Heavy Duty Trash Pumps and more...***

- Automatic dry priming and re-priming to 30 feet
- Quick dry prime from 15 feet in 15 seconds
- Heavy duty cast iron construction for long life
- Large solid handling capacity
- 2 or 3 vane ductile iron impellers available
- Cast iron rubber-lined, abrasion resistant wear plate
- Dry running abrasion-resistant tungsten carbide mechanical seal with Viton elastomers
- Back pullout design
- Oversized air separation tank
- Oil reclamation system to minimize waste
- Vacuum pump adds an additional 200-cfm of air handling
- Safety shutdown control panel standard
- Various diesel engine and electric motor options
- Simple low-cost maintenance

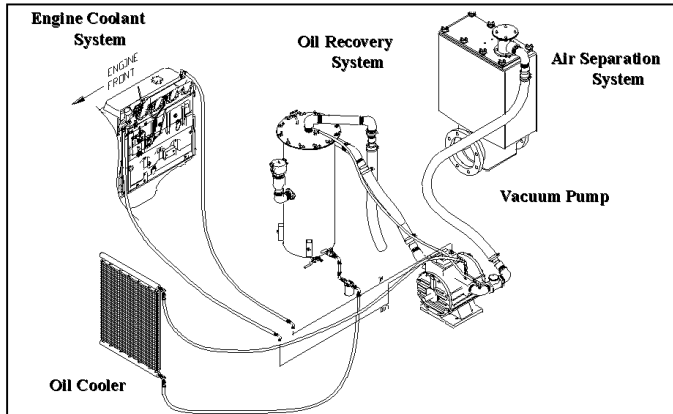
## APPLICATIONS

- Groundwater and deep excavation dewatering
- Sock dewatering
- Wellpoint systems
- Flood drainage
- Bypassing of flowing water and sewage
- Pumping polluted, hot or corrosive water
- Surface irrigation (flood type)
- Mining run-off ponds
- Water supply and transfer
- Pumping fluids with solids and sand

## SPECIAL FEATURES\*



\*Some features not available on all models



The oil flow as it passes through the VW air handling system.

## MODEL SPECIFICATIONS

Unit Model	Size (In.)	Maximum* Capacity (GPM)	Maximum* Head (Ft.)	Maximum* CFM	Maximum Solids (In.)
6VW	6	1,500	102	229	3.00
8VW	8	2,600	142	229	3.00
10JVW†	10	5,000	110	200	1.38

\* @2,000 RPM

† Uses the same end-suction centrifugal pump as Thompson's J & JC High Pressure Pumps

## WORKING PRINCIPLE

Before reaching the pump impeller, the water / air mixture passes through a wide cross section tank where the flow rate drops sharply. As a result, the air mixed with the water tends to rise because of the different density and is drawn into the vacuum pump forcing the water to rise in the separation tank until a point of balance is reached. At this point, the pump almost exclusively handles water since the balance point level is above the impeller.

Another feature of this unit is that we use a self-priming pump. This means that in addition to the air handling capacity of the vacuum system there is additional air handling from the self-priming pump.

The oil that is used to lubricate and cool the vacuum pump, goes through an oil cooler and an oil recovery system to maintain proper oil usage levels. The oil is then sent through the vacuum pump and into a separate section in the wide cross-section tank, where the water coming in from the suction port provides additional cooling.

