

**MULTIFLO®**  
Mine Dewatering Solutions

Excellent  
Minerals  
Solutions

**WEHR**  
MINERALS

Auto Prime Pump Units



# MULTIFLO<sup>®</sup> heavy duty mine dewatering pumps

## Built to last

**Weir Minerals is a leading provider of auto prime diesel driven pump units.**

### Custom dewatering solutions

MULTIFLO<sup>®</sup> units offer the optimum solution for your dewatering needs rather than a “one-size-fits-all” approach. MULTIFLO units are fully customizable.

- Trailer or skid mounted units
- Diesel or electric drive with your choice of brand
- Wide range of pump ends available to meet your specific application
- Variety of corrosion and wear resistant materials available
- Customized instrumentation



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### Built to last

MULTIFLO<sup>®</sup> units are the only auto prime pumps designed specifically to withstand the harsh operating conditions found on mining sites with standard features such as:

- Mining duty trailer and skids
  - Skids are fitted with a rugged dozer push bar and wear plate to allow easy movement around the site
- Heavy duty base
  - 24 hour minimum fuel capacity versus 8 to 12 hours
  - Continuous welds — no stitch welding that traps water causing rust in inaccessible places
  - Internal baffling — all deck mounts are supported by baffling preventing flexing, cracking and fuel leakage
- Internal painting
- Canopy to protect drive
- Stainless and fully galvanized hardware and fittings
- Wide selection of pump ends
  - Any of the Weir Minerals pump ends may be utilized including heavy duty slurry pumps like the WARMAN<sup>®</sup> AH
- Wide variety of materials including hardened chrome irons and alloys



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1: Skid mounted Diesel units at copper-gold mine

2: Diesel auto prime unit with WARMAN<sup>®</sup> AH heavy duty slurry pump at coal mine

3: Heavy duty skid base

**For more than 30 years, the Weir Minerals MULTIFLO brand has designed and manufactured a complete range of diesel driven trailer and skid mounted auto prime units.**

**Superior priming system**

MULTIFLO® units are available with either Mechanical or Vactronic® priming systems which are superior to compressor-venturi style systems:

- Highly reliable priming
- Easy to maintain
- Highly efficient, high CFM vacuum priming versus inefficient compressor-venturi priming
- Able to overcome and tolerate small leaks
- Vacuum line does not get hot
- No priming exhaust emissions
- Simple packing or mechanical seals available

**Mechanical priming**

When the unit is started, the priming system will quickly and efficiently lift water up to the priming tank to prime the pump. The level of the water in the priming tank is controlled by a "ball float" system which cycles as needed to ensure the system remains primed at all times.



*Empty tank with vacuum line open*

*Tank full with vacuum vented to atmosphere*

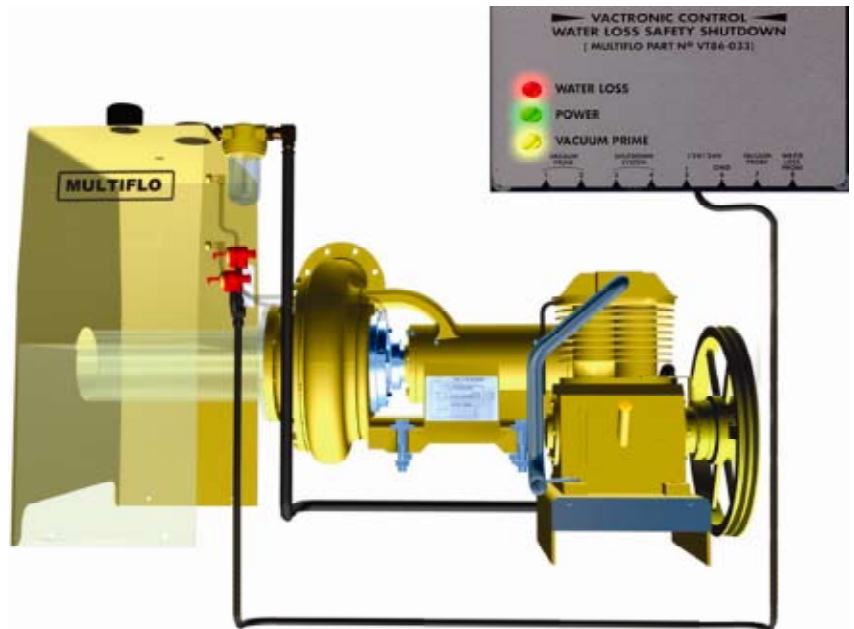
**Vactronic® priming with Waterloss shutdown**

Like the mechanical system, the Vactronic® system will quickly and efficiently lift the water and prime the pump.

Once the water in the priming tank contacts the upper probe, the drive to the vacuum pump is disengaged. If at any time the water drops below the upper probe, the drive will re-engage the vacuum pump drawing the water back to the probe level.

The Waterloss shutdown feature of the Vactronic® system: If there is no more water to be pumped, the level in the priming tank will fall below the lower probe and activate a timer that will shut down the pump unit if water is not restored.

With the Vactronic® system, the vacuum pump life is extended as it only operates when required.



**MULTIFLO® auto prime pumps provide the lowest total cost of ownership:**

- Simple to operate
- Tailored to the application
- Fully customizable
- Highest quality build
- Built for mining
- Superior priming system



1: MF160 trailer mounted unit with mechanical prime  
 2: Electric motor driven with WARMAN® XU slurry pump with mechanical prime  
 3: Custom trailer with Vactronic® Prime

- WARMAN®** Centrifugal Slurry Pumps
- GEHO®** PD Slurry Pumps
- LINATEX®** Rubber Products
- VULCO®** Wear Resistant Linings
- CAVEX®** Hydrocyclones
- FLOWAY® PUMPS** Vertical Turbine Pumps
- ISOGATE®** Slurry Valves
- MULTIFLO®** Mine Dewatering Solutions
- HAZLETON®** Specialty Slurry Pumps
- LEWIS® PUMPS** Vertical Chemical Pumps



For further information on any of these products or our support services contact your nearest sales office or visit:

[www.weirminerals.com](http://www.weirminerals.com)

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