

# DuraFlo™



**Applications  
Curves**

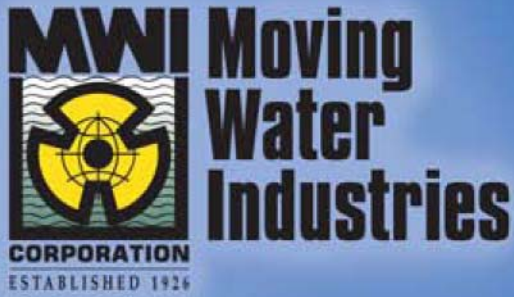
**Why Choose DuraFlo™**

**HCT004 | HCT006**

**HCT008 | HCT010 | HCT012**

**MWI Moving  
Water  
Industries**  
CORPORATION  
ESTABLISHED 1926

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***Construction  
Municipal  
Utilities  
Mining  
Agriculture  
Sewage Bypass***

***4 -12 Inch Pumps  
Hydraulically Driven***



# ***DURAFLO***<sup>TM</sup> **Trash Handling Pump**

# DuraFlo™ Applications

**Construction Dewatering** - perfect for drying out construction sites: no priming problems or suction lift restrictions, quick and easy to move around, runs dry indefinitely, easy to install, handles trash and debris.

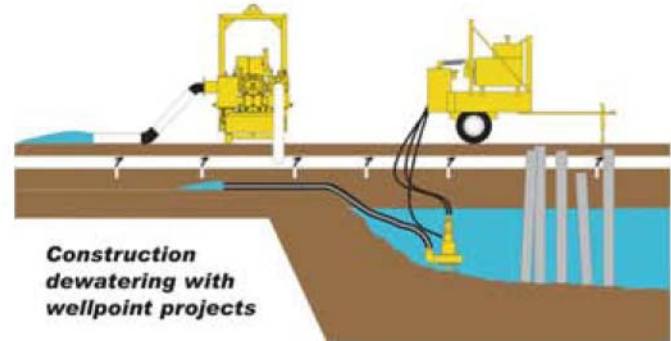
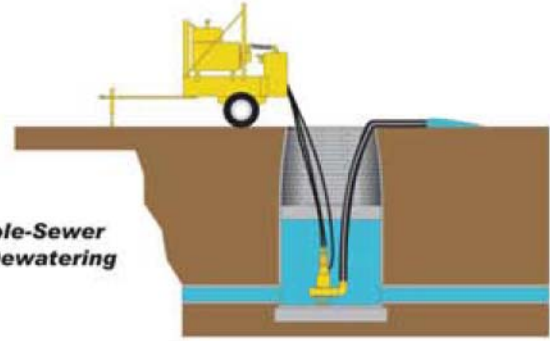
**Mining/Quarry Operations** - great asset for these operations: highly portable, set up and operational in minutes, easily adjusts to changing water levels, no problems with priming or suction lift.

**Municipal** - excellent all around pump to keep for emergencies or general purpose use: highly flexible, very mobile, can be used in many different applications pumping water, sewage or sludge, always ready.

**Sewage Bypass** - extraordinarily dependable choice for sewage bypass operations: highly portable, open impeller for passing sewage, reaches down deep holes without suction limitations or priming problems, flexible set up with hydraulic hoses allows remote placement of drive units.

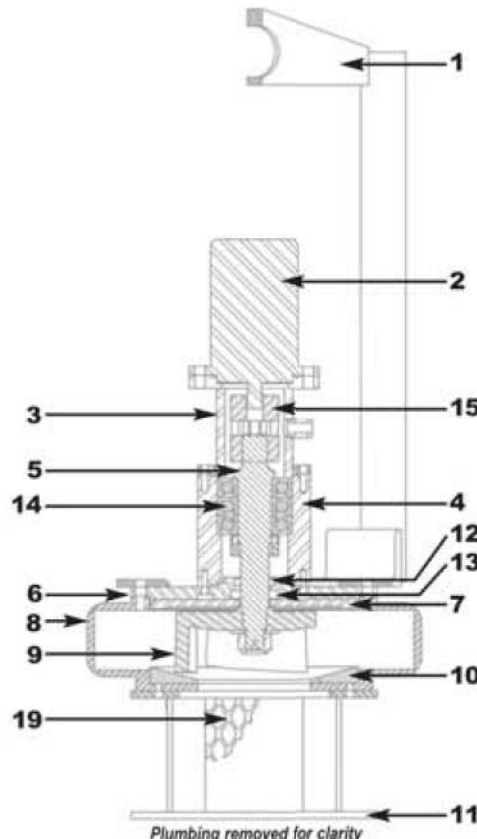
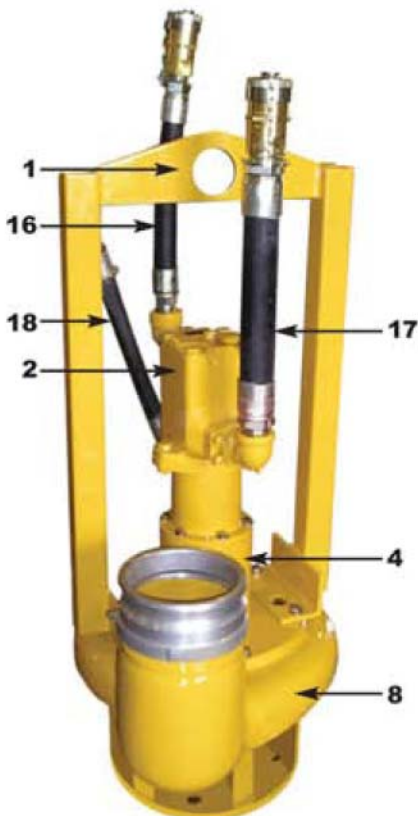
**Utilities** - use to dry out trenches or for bypassing operations: easily handles intermittent flows, runs dry all day, dependable, easy to set up and to move around, no priming problems or suction lift restrictions, handles debris.

Manhole-Sewer Line Dewatering



Construction dewatering with wellpoint projects

## Take a closer look...

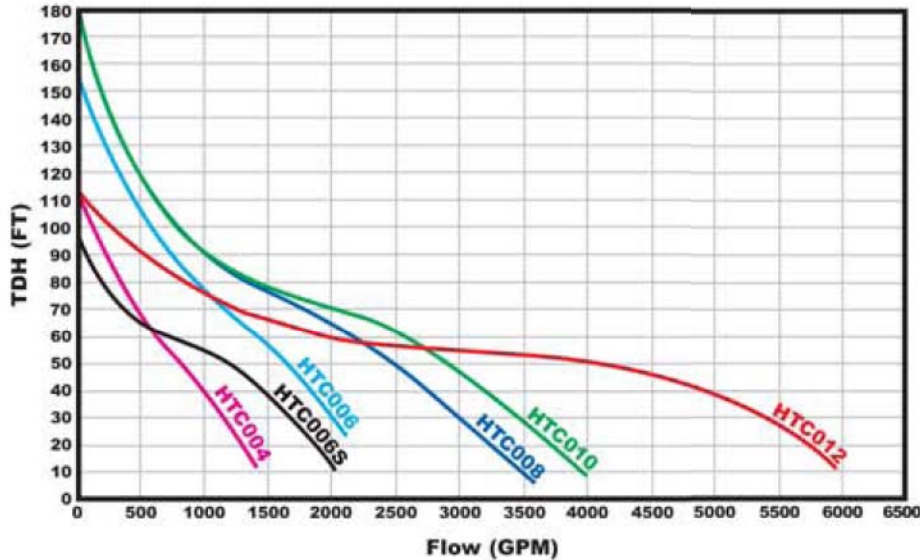


This cross section is unique to the HTC006 (internals of other pumps vary). Due to our continual improvement of our products, we reserve the right to change designs and specifications.

### Parts

1. Lifting Loop
2. Hydraulic Motor -Vane Type
3. Hydraulic Motor Mount
4. Bearing Box
5. Shaft Assembly
6. End Plate
7. Upper Wear Plate
8. Volute
9. Impeller
10. Lower Wear Plate
11. Stand
12. Mechanical Seal
13. Lip Seal
14. Angular Contact Bearings
15. Shaft Coupling
16. High Pressure Hydraulic Hose - Supply
17. Low Pressure Hydraulic Hose - Return
18. Hydraulic Hose - Bearing Lube
19. Optional Intake Strainer

# DuraFlo™ Curves



DuraFlo™ pumps use open impellers with clearances for trash and debris, shaped to pass sewage and designed for the maximum possible efficiency.

## MWI Hydraulic Drive Units

- **Completely self-contained, diesel-driven power unit.**
- **Skid-mounted with integral fuel tank that can provide 24+ hours run time on a single tank.**
- **Modular, bolt-together unit allowing quick and easy conversion from skid to portable and back and easy replacement of damaged components.**
- **Hydraulic control panel for manual operations.**
- **Control and relief valves, filters, flexible supply and return hoses (50 ft.) with quick disconnect fittings.**
- **Can be remotely located from pumphead.**
- **Can use bio-degradable oil to minimize environmental concerns.**
- **Very small hydraulic tanks drastically reduce cost of replacing expensive hydraulic fluids, reduce the size/weight of the unit and limit environmental damage.**
- **Options: sound attenuated units, trailer mounted units, automatic start/stop panels, cold weather start systems and extra hose sets.**



Model Number	Engines <small>All Available for Each Model</small>	Cont Net HP @ Design	Hydraulic Pump Flow/Pressure at Rated RPMs	Dimensions H" x L" x W"	Fuel Tank	Hydraulic Tank	Unit Weight	Powers DuraFlo™ Model(s)
800D	Caterpillar	30 HP				10 GAL		HTC004
1200D	Perkins	55 HP	15 GPM @ 2500 PSI	74 x 93 x 37	78 GAL	10 GAL	3000 LBS	HTC006S HTC006
2000D	John Deere	95 HP	26 GPM @ 2500 PSI	77 x 108 x 37	94 GAL	15 GAL	3200 LBS	HTC008 HTC010
2400D	Deutz	140 HP	48 GPM @ 2500 PSI	77 x 108 x 37	94 GAL	22 GAL	3800 LBS	HTC012

Weights and dimensions are approximate. Due to our continual improvement of our products, we reserve the right to change designs and specifications.

# DuraFlo™

## MWI's Hydraulically-Driven Submersible Trash Pump

The DuraFlo™ is the strongest, most rugged and reliable hydraulic-submersible trash pump on the market. These extra heavy-duty pumps are built with the muscle and strength to handle the most difficult pumping jobs. They are battle tested in rental and contractor operations for environments where pumps must perform – day and night – in mines, on job sites, in sewage bypass operations and in industrial applications. MWI invented and patented the hydraulically-driven axial and mixed flow pumps. And we bought the company, Sloan Pumps, which invented and patented the hydraulically driven trash pumps. MWI has a wealth of experience building these pumps and they are in use all over the world. **Want the best – buy from the best.**



## Why choose the MWI DuraFlo™?

**MWI Name:** We've been in the business for over 75 years due to our focus on designing and building great pumps, on pleasing customers and standing behind our products. If it says MWI you can be assured of a quality product and total support.

**Optimized Design:** We provide the best combination of competing parameters integrated into the "sweet spot" package to provide satisfied customers and the best ROI. Our pumps are extensively tested and continually refined based on experience and feedback from customers.

**Rugged, Reliable, Dependable:** The number one requirement of our customers is a tough, dependable pump that will not require expensive service calls on job sites and cut into profit margins. That's what we deliver.

**Affordable Spare Parts:** Some companies sell low price products and then make their money on the back end with expensive spare parts. There are no games at MWI. We stock and sell spare parts that are reasonably priced.

**Complete & Self Contained Units:** Units have everything needed for operation - high performance pump plus drive unit with diesel engine, hydraulic controls, hydraulic hoses, skid or portable frame with lifting bail, forklift slots and integral fuel tank.

**Modular Design:** The new modular design provides a complete bolt together unit - lifting bail, bumpers, tow bar, light brackets and axles. Easily convert units from skid to portable and back again. Also very easy to repair or replace damaged parts.

**Small Hydraulic Tanks:** New design for tanks reduces volume by 85% while still maintaining adequate oil for circulation and cooling. The much smaller size results in significantly reduced costs for very expensive environmentally-friendly hydraulic fluids. At \$10+ per gallon, each fluid replacement saves over \$500.

**Available in Sizes from 4" to 12":** 1,400 to 6,000 GPM - easily passes solids and materials of various consistencies with open impellers optimized for efficiency and solids handling ability. Units prime easily and quickly with no suction lift restrictions which greatly simplifies pumping.

**Indefinite run dry capability** with no harm to the pump or drive unit. Bearings and seals are independently lubricated and cooled.

**Adjust pump performance** easily by changing engine speeds.

**Simple** to maintain and repair.

**Drive units are matched to DuraFlo™ pumps** for optimum flexibility and performance making the units suitable for multiple applications.

**Drive units and pumps can be separated** for great flexibility in installation and operation.

**Quick disconnect hydraulic fittings** speed installation and tear down.

**Sound Attenuated Units:** Available for use in residential or other sensitive areas.

# DURAFLO™ HTC004

**HTC004 - Hydraulic Submersible  
Trash Pump and 800D Drive Unit**



Member of:  
**Hydraulic  
Institute**

**The MWI DuraFlo™ hydraulic submersible trash pumps coupled with their diesel or electric drive units are an unbeatable combination for: drying out construction excavations, quarry dewatering, bypassing sewage, general municipal use and industrial work. These units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price. DuraFlo™s never quit – positively affecting your success and bottom line.**

## FEATURES

### 800D Diesel Engine Drive Unit

- Skid mounted unit - Standard
  - Trailer mounted unit available - With optional fenders, DOT light kit and braking system
- Cat, Perkins, John Deere and Deutz engines available
- Engine and hydraulic safety shutdowns
- Integral 78 gallon diesel tank providing extended run capability
- Complete Hydraulic System with control panel, pump, filters, tank and gauges
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient Vane Hydraulic Pump
- Environmentally friendly - Readily biodegradable hydraulic fluid available
- Unit will shut down as hydraulic fluid loss is detected
- Auto Start Stop Panel available with floats

### DuraFlo™ - HTC004

- High performance
  - 1350 GPM
  - 113 Ft. TDH
- Open 3 bladed impeller for handling trash and sewage
  - Easily passes 3" solids
- Runs dry indefinitely
  - Oil lubricated seals and bearings
- Reliable, rugged Vane Hydraulic Motor
- Stainless steel shaft
- Replaceable wear plates
- Lifting point
- Cast steel volute - Weldable and shock proof
- Easy on and off hydraulic "Quick Disconnect" Fittings
- Optional mesh strainer
- Male NPT Discharge
- Vary flow by changing engine speeds

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## Materials & Specifications

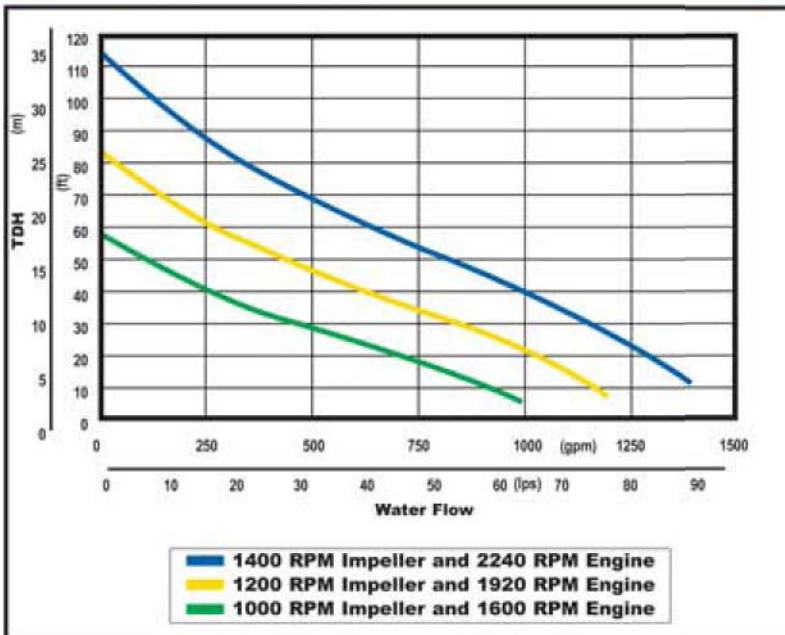
### HTC004

- Hydraulic Motor - Dennison Vane Type
- Impeller - 3 bladed open - A 36 steel
- Shaft material - 300 series stainless steel
- Volute - ASTM A242 corrosion-resistant, high strength steel
- Wear plates - A36 steel - upper and lower
- Discharge - 4" ANSI Pattern Flange
- Hydraulic quick disconnects - 3/4" Supply, 1" Return, 3/4" Case Drain
- Mechanical seal - Silicone carbide - Hydraulic-fluid bathed
- Bearings - Hydraulic-fluid lubricated - 50,000 hours - Minimum life.
- Weight - 175 lbs
- Coating - MoTar Standard - Epoxy optional

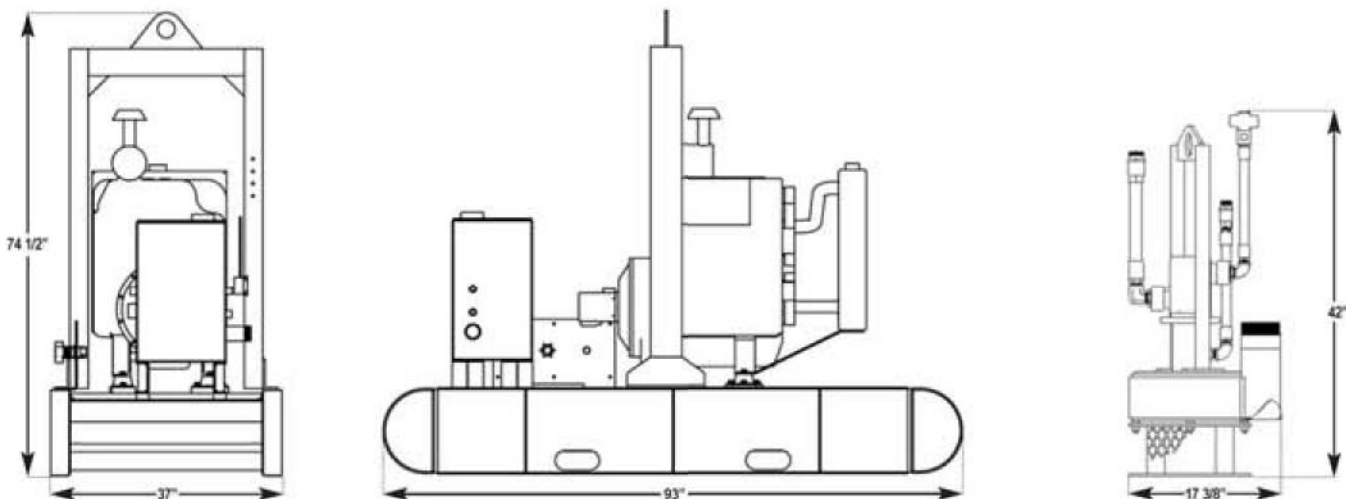
### 800 Drive Unit

- Diesel engine - 30+ HP at 1800 RPM
- Murphy engine panel with tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection.
- 78 gallon vented fuel tank with extra large filler and fuel gauge.
- 10 gallon hydraulic fluid tank
- Safety shutdowns for low hydraulic oil, excessive vacuum and high hydraulic oil temperature.
- Equipped with an internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap.
- Hydraulic pump - Dennison Vane type
- Output - 15 GPM at 2500 psi

## PERFORMANCE



## PHYSICAL DATA



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# 6" DURAFL0™ PUMP & DRIVE UNIT

**HTC006 - Hydraulic Submersible  
Trash Pump and 1200D Drive Unit**



Member of:  
**Hydraulic**

*The MWI DuraFlo™ hydraulic submersible trash pumps coupled with their diesel or electric drive units are an unbeatable combination for: drying out construction holes, quarry dewatering, bypassing sewage, general municipal use and industrial work. These units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price. DuraFlos never quit – positively affecting your success and bottom line.*

## FEATURES

### DuraFlo™ - HTC006

- High performance
  - 2000 GPM
  - 158 Ft. TDH
- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3" solids
- Runs dry indefinitely
  - Oil lubricated seals and bearings
- Reliable, rugged Vane Hydraulic Motor
- Stainless steel shaft
- Replaceable wear plates
- Lifting point
- Cast steel volute - Weldable and shock proof
- Easy on and off hydraulic "Quick Disconnect" Fittings
- Optional mesh strainer
- Male NPT Discharge
- Vary flow by changing engine speeds

### 1200D Diesel Engine Drive Unit

- Skid mounted unit - Standard
  - Trailer mounted unit available - With optional fenders, DOT light kit and braking system
- Reliable John Deere engine - Standard
  - Engine and hydraulic safety shutdowns
- Cat, Deutz, Perkins and other engines available
- Integral 77 gallon diesel tank providing extended run capability
- Complete Hydraulic System with control panel, pump, filters, tank and gauges
- Reliable, efficient Vane Hydraulic Pump
- Environmentally friendly - Readily biodegradable hydraulic fluid available
- Unit will shut down as hydraulic fluid loss is detected
- Auto Start Stop Panel available with floats

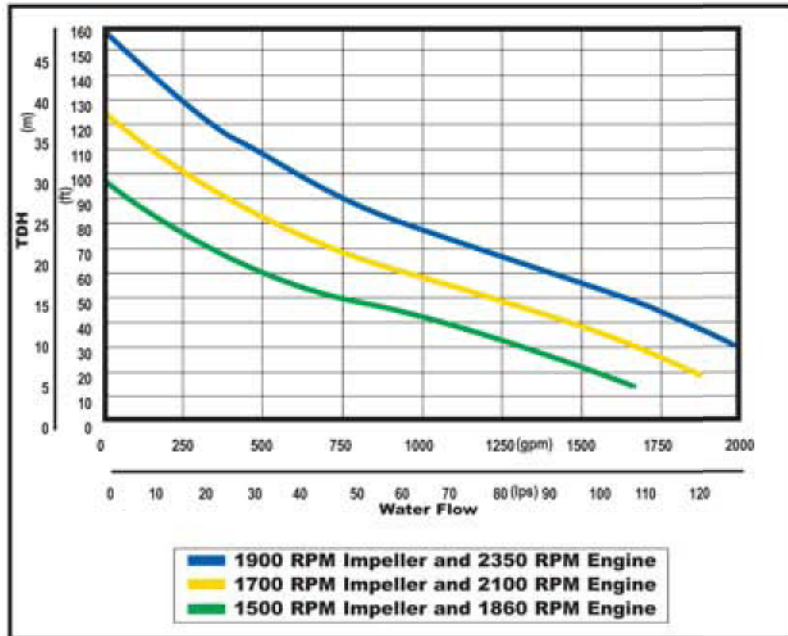
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# 6" DURA FLO™ PUMP & DRIVE UNIT

## HTC006 PERFORMANCE



## Materials & Specifications

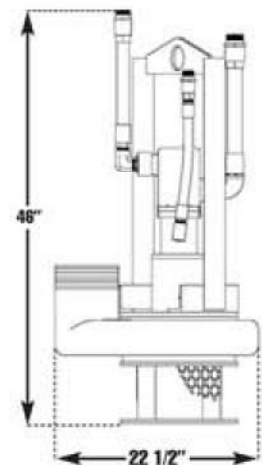
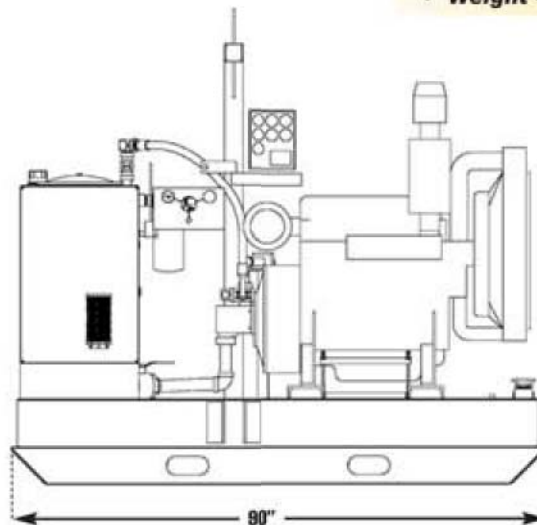
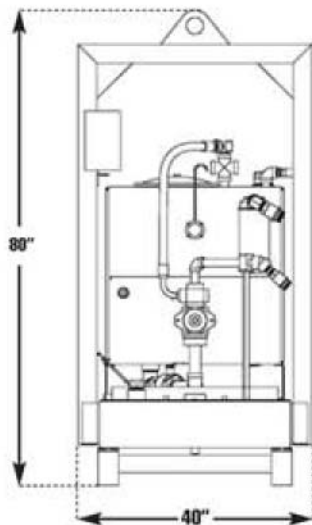
### HTC006

- Hydraulic Motor - Dennison Vane Type
- Impeller - 3 bladed open - A 36 steel
- Shaft material - 300 series stainless steel
- Volute - High strength, cast steel-nautilus design
- Wear plates - A36 steel - upper and lower
- Discharge - 6" Male NPT
- Hydraulic quick disconnects - 1" Supply, 1 1/4" Return, 3/4" Case Drain
- Mechanical seal - Silicone carbide - Hydraulic-fluid bathed
- Bearings - Hydraulic-fluid lubricated - 50,000 hours - Minimum life.
- Weight - 315 lbs
- Coating - MoTar Standard - Epoxy optional

### 1200 Drive Unit

- Engine - JD4045D 62 HP at 1800 RPM
- Murphy engine panel with tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection.
- 77 gallon vented fuel tank with extra large filler and fuel gauge.
- Safety shutdowns for low hydraulic oil, excessive vacuum and high hydraulic oil temperature.
- Equipped with an internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap.
- Hydraulic pump - Dennison Vane type
- Output - 26 GPM - 3000 psi at 1800 RPM
- Weight - 3600 lbs - skid

## PHYSICAL DATA



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# DURAFLO™ HTC008

**HTC008 - Hydraulic Submersible  
Trash Pump and 2000D Drive Unit**



Member of  
**Hydraulic**  
INDUSTRY

**The MWI DuraFlo™ hydraulic submersible trash pumps coupled with their diesel or electric drive units are an unbeatable combination for: drying out construction excavations, quarry dewatering, bypassing sewage, general municipal use and industrial work. These units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price. DuraFlo™s never quit – positively affecting your success and bottom line.**

## FEATURES

### 2000D Diesel Engine Drive Unit

- Skid mounted unit - Standard
  - Trailer mounted unit available - With optional fenders, DOT light kit and braking system
- Cat, Perkins, John Deere and Deutz engines available
- Engine and hydraulic safety shutdowns
- Integral 94 gallon diesel tank providing extended run capability
- Complete Hydraulic System with control panel, pump, filters, tank and gauges
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient Vane Hydraulic Pump
- Environmentally friendly - Readily biodegradable hydraulic fluid available
- Unit will shut down as hydraulic fluid loss is detected
- Auto Start Stop Panel available with floats

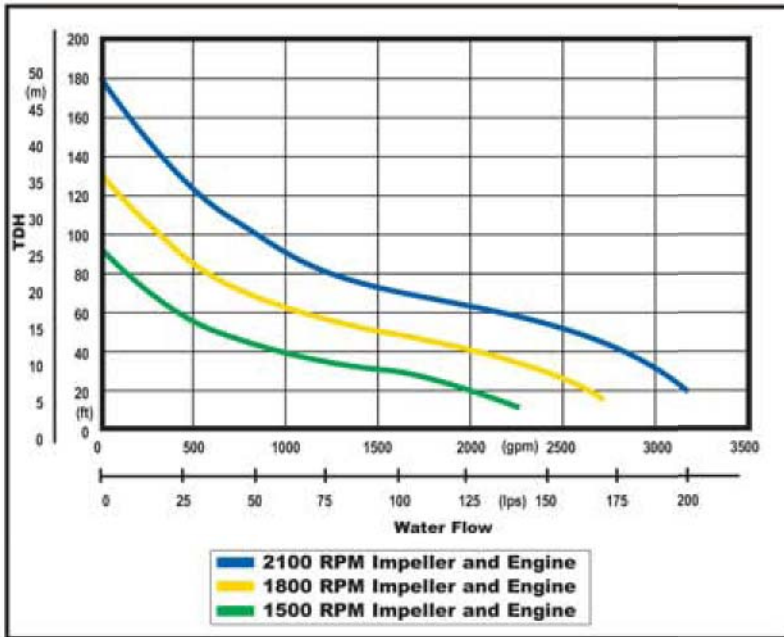
### DuraFlo™ - HTC008

- High performance
  - 3200 GPM
  - 178 Ft. TDH
- Open 3 bladed impeller for handling trash and sewage
  - Easily passes 3 1/8" solids
- Runs dry indefinitely
  - Oil lubricated seals and bearings
- Reliable, rugged Vane Hydraulic Motor
- Stainless steel shaft
- Replaceable wear plates
- Lifting point
- Cast steel volute - Weldable and shock proof
- Easy on and off hydraulic "Quick Disconnect" Fittings
- Optional mesh strainer
- 8" ANSI pattern discharge flange
- Vary flow by changing engine speeds

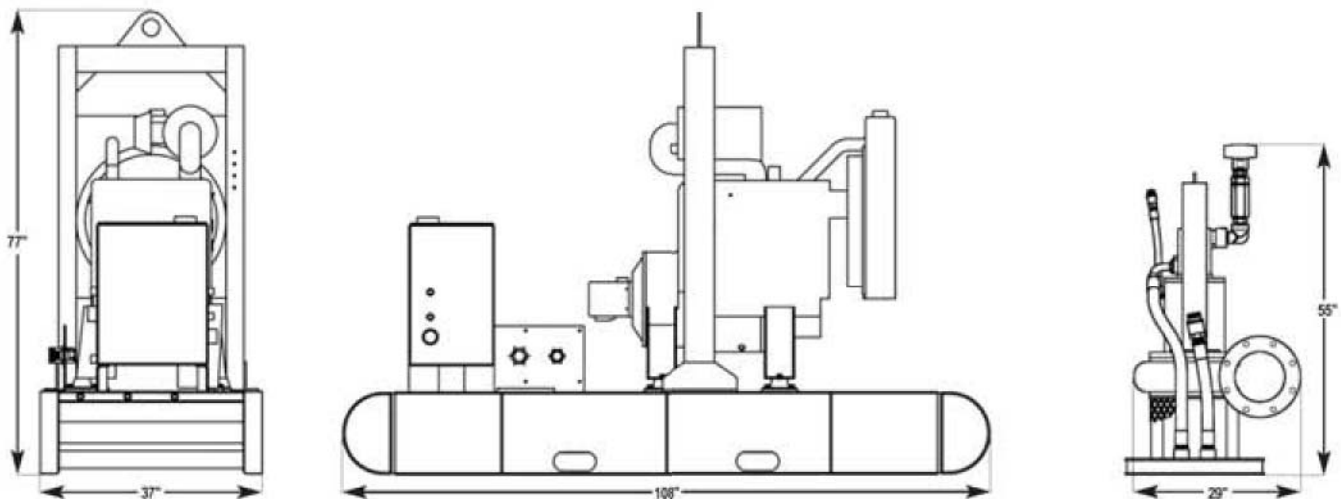
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## PERFORMANCE



## PHYSICAL DATA



## Materials & Specifications

### HTC008

- Hydraulic Motor - Dennison Vane Type
- Impeller - 3 bladed open - A 36 steel
- Shaft material - 300 series stainless steel
- Volute - High strength, cast steel-nautilus design
- Wear plates - A36 steel - upper and lower
- Discharge - 8" ANSI Pattern Flange
- Hydraulic quick disconnects - 1 1/2" Supply, 1 1/2" Return, 3/4" Case Drain
- Mechanical seal - Silicone carbide - Hydraulic-fluid bathed
- Bearings - Hydraulic-fluid lubricated - 50,000 hours - Minimum life.
- Weight - 670 lbs
- Coating - MoTar Standard - Epoxy optional

### 2000 Drive Unit

- Diesel engine - 95 net continuous HP at 2000 RPM
- Engine control panel with tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection.
- 94 gallon vented fuel tank with extra large filler and fuel gauge.
- 15 gallon hydraulic fluid tank
- Safety shutdowns for low hydraulic oil, excessive vacuum and high hydraulic oil temperature.
- Equipped with an internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap.
- Hydraulic pump - Dennison Vane type
- Output - 48 GPM at 2500 psi
- Weight - 3800 lbs - skid

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# 10" DURA FLO™ PUMP & DRIVE UNIT

**HTC010 - Hydraulic Submersible  
Trash Pump and 2000D Drive Unit**



Member of:  
**Hydraulic**

*The MWI DuraFlo™ hydraulic submersible trash pumps coupled with their diesel or electric drive units are an unbeatable combination for: drying out construction holes, quarry dewatering, bypassing sewage, general municipal use and industrial work. These units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price. Duraflos never quit – positively affecting your success and bottom line.*

## FEATURES

### DuraFlo™ - HTC010

- High performance
  - 4000 GPM
  - 178 Ft. TDH
- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3 1/8" solids
- Runs dry indefinitely
  - Oil lubricated seals and bearings
- Reliable, rugged Vane Hydraulic Motor
- Stainless steel shaft
- Replaceable wear plates
- Lifting point
- Cast steel volute - Weldable and shock proof
- Easy on and off hydraulic "Quick Disconnect" Fittings
- Optional mesh strainer
- ANSI Pattern Discharge Flange
- Vary flow by changing engine speeds

### 2000D Diesel Engine Drive Unit

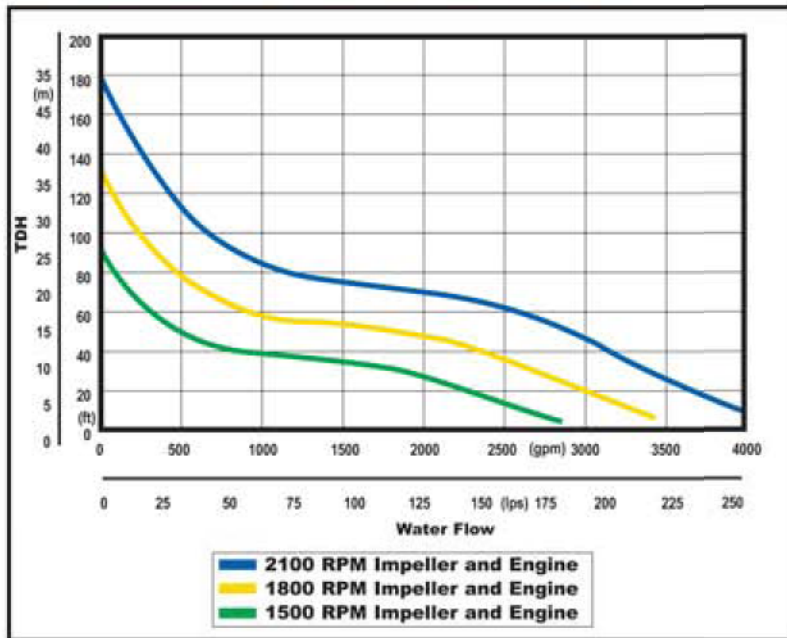
- Skid mounted unit - Standard
  - Trailer mounted unit available - With optional fenders, DOT light kit and braking system
- Reliable John Deere engine - Standard
  - Engine and hydraulic safety shutdowns
- Cat, Deutz, Perkins and other engines available
- Integral 100 gallon diesel tank providing extended run capability
- Complete Hydraulic System with control panel, pump, filters, tank and gauges
- Reliable, efficient Vane Hydraulic Pump
- Environmentally friendly - Readily biodegradable hydraulic fluid available
- Unit will shut down as hydraulic fluid loss is detected
- Auto Start Stop Panel available with floats

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# 10" DURA FLO™ PUMP & DRIVE UNIT

## HTC010 PERFORMANCE



## Materials & Specifications

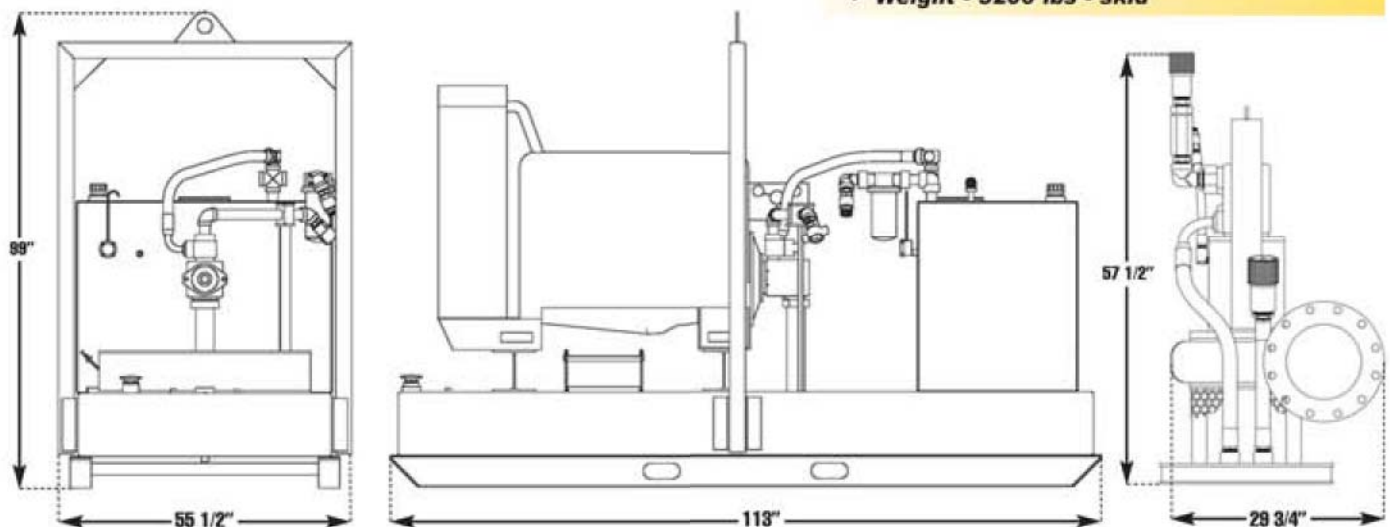
### HTC010

- Hydraulic Motor - Dennison Vane Type
- Impeller - 3 bladed open - A 36 steel
- Shaft material - 300 series stainless steel
- Volute - High strength, cast steel-nautilus design
- Wear plates - A36 steel - upper and lower
- Discharge - 10" ANSI Pattern Flange
- Hydraulic quick disconnects - 1 1/2" Supply, 1 1/2" Return, 3/4" Case Drain
- Mechanical seal - Silicone carbide - Hydraulic-fluid bathed
- Bearings - Hydraulic-fluid lubricated - 50,000 hours - Minimum life.
- Weight - 630 lbs
- Coating - Motar Standard - Epoxy optional

### 2000 Drive Unit

- Engine - JD4045T 95 cont. HP at 2000 RPM
- Murphy engine panel with tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection.
- 100 gallon vented fuel tank with extra large filler and fuel gauge.
- Safety shutdowns for low hydraulic oil, excessive vacuum and high hydraulic oil temperature.
- Equipped with an internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap.
- Hydraulic pump - Dennison Vane type
- Output - 48 GPM - 3000 psi at 2000 RPM
- Weight - 5200 lbs - skid

## PHYSICAL DATA



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# 12" DURA FLO™ PUMP & DRIVE UNIT

**HTC012 - Hydraulic Submersible  
Trash Pump and 2400D Drive Unit**



Member of  
**Hydraulic**

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## FEATURES

### DuraFlo™ - HTC012

- High performance
  - 5900 GPM
  - 114 Ft. TDH
- Open 3 bladed impeller for handling trash & sewage
- Easily passes 3 1/8" solids
- Runs dry indefinitely
  - Oil lubricated seals and bearings
- Reliable, rugged Vane Hydraulic Motor
- Stainless steel shaft
- Replaceable wear plates
- Lifting points
- Fabricated steel volute - Weldable and shock proof
- Easy on and off hydraulic "Quick Disconnect" Fittings
- Optional mesh strainer
- ANSI Pattern Discharge Flange
- Vary flow by changing engine speeds

### 2400D Diesel Engine Drive Unit

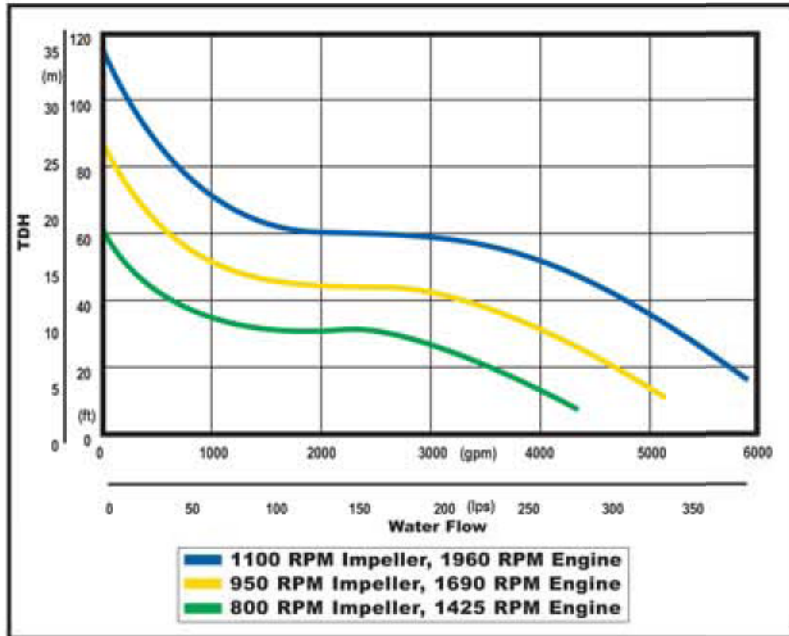
- Skid mounted unit - Standard
  - Trailer mounted unit available - With optional fenders, DOT light kit and braking system
- Reliable John Deere engine - Standard
  - Engine and hydraulic safety shutdowns
- Cat, Deutz, Perkins and other engines available
- Integral 175 gallon diesel tank providing extended run capability
- Complete Hydraulic System with control panel, pump, filters, tank and gauges
- Reliable, efficient Vane Hydraulic Pump
- Environmentally friendly - Readily biodegradable hydraulic fluid available
- Unit will shut down as hydraulic fluid loss is detected
- Auto Start Stop Panel available with floats

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# 12" DURA FLO™ PUMP & DRIVE UNIT

## HTC012 PERFORMANCE



## Materials & Specifications

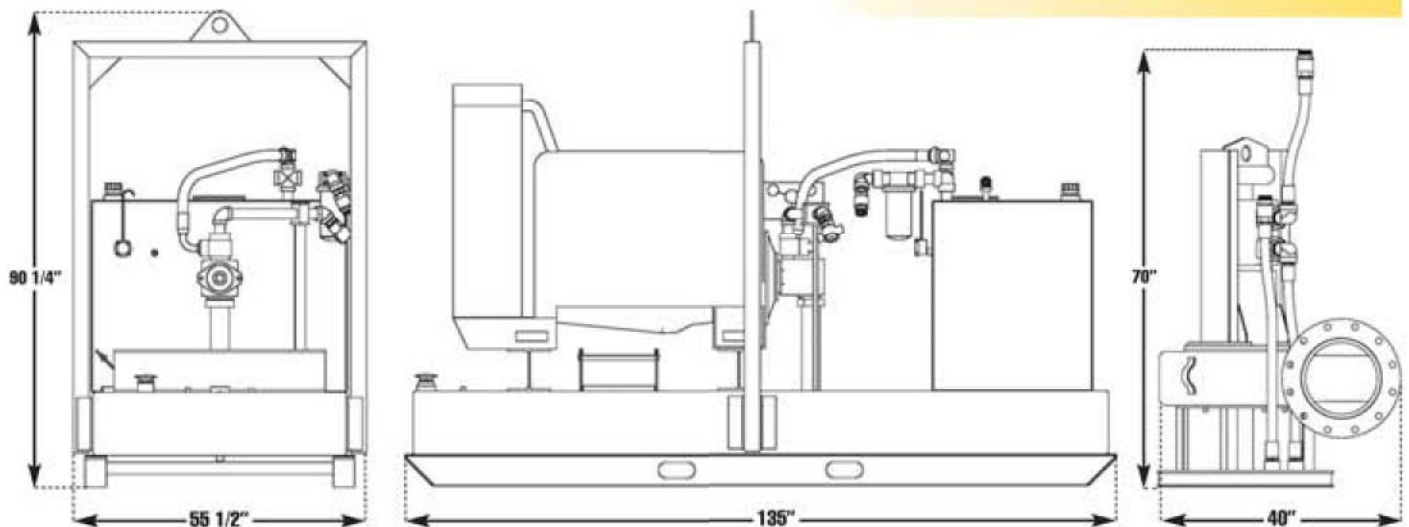
### HTC012

- Hydraulic Motor - Dennison Vane Type
- Impeller - 3 bladed open - A 36 steel
- Shaft material - 300 series stainless steel
- Volute - ASTM A242 corrosion-resistant, high strength steel
- Wear plates - A36 steel - upper and lower
- Discharge - 12" ANSI Pattern Flange
- Hydraulic quick disconnects - 1 1/2" Supply, 1 1/2" Return, 3/4" Case Drain
- Mechanical seal - Silicone carbide - Hydraulic-fluid bathed
- Bearings - Hydraulic-fluid lubricated - 50,000 hours - Minimum life.
- Weight - 775 lbs
- Coating - MoTar Standard - Epoxy optional

### 2400 Drive Unit

- Engine - JD6068T 139 cont. HP at 1800 RPM
- Murphy engine panel with tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection.
- 175 gallon vented fuel tank with extra large filler and fuel gauge.
- Safety shutdowns for low hydraulic oil, excessive vacuum and high hydraulic oil temperature.
- Equipped with an internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap.
- Hydraulic pump - Dennison Vane type
- Output - 91 GPM - 2500 psi at 2100 RPM
- Weight - 6200 lbs - skid

## PHYSICAL DATA



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