

# LARGE-VOLUME PUMPS & SERVICES

Construction | Industrial | Municipal | Mining

Turn Key Pumping Solutions with Flows from 5 - 1M GPM



**2020 CATALOG**

*The Power to Move Water®*

**Since 1926 | [mwipumps.com](http://mwipumps.com)**







# ABOUT MWI PUMPS

## **MWI Corporation**

MWI Pumps is an American-made ISO 9001-certified pump manufacturer based in Deerfield Beach, Florida. Each pump is constructed using innovative, patented design concepts and heavy-duty materials to ensure durability and reliability. MWI pumps are offered at competitive prices, and we always put our customers at the forefront. With our in-house engineering staff, years of experience, product variety, extensive rental fleet, and ability to customize each pump, we can meet or exceed the needs of any unique job no matter the size.

Founded in 1926, MWI Pumps specializes in the design, manufacturing and construction of high-efficiency, large-volume axial- and mixed-flow propeller water pumps, centrifugal and mobile pumps, and village water supply units. Known around the world to be proven and safe, our industrial rugged pumps are ideal for a variety of applications, including:

- Construction dewatering
- Sewage bypass pumping
- Flood control
- Emergency pumping
- Water infrastructure security
- Municipal pump station
- Open pit dewatering
- Agricultural pumping and more

Additionally, MWI has provided professional pump rental and repair services since 1968, with locations throughout Florida, and distributors / representatives throughout the USA and worldwide. Contact us today to learn more about our water pumps, pump services, pump sales, cost-effective rentals, and other industrial water pump manufacturing services.

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## **Rental Locations:**

**Deerfield Beach:** 954-427-2206  
**Vero Beach:** 772-770-0004  
**Jacksonville:** 904-425-6741  
**Orlando:** 407-854-3378  
**Tampa:** 813-899-2863  
**Fort Myers:** 239-337-4747

**Website:**  
mwipumps.com



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# PRIMERITE™ SERIES

## 4-12" AUTOMATIC DRY SELF-PRIMING TRASH PUMPS

The **Primerite™ series** - with capacities up to 6500 GPM, solid handling up to 3.125" and a max head (TDH) of up to 152' are the perfect pumps for contractors, pump rental companies, mining operators and general industrial or municipal use. The pump's oil-filled bearing box and a mechanical seal in an oil bath enable it to run dry all day long for up to 24 hours, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. This pump is completely self contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.



SPECIFICATIONS	ECO CT004	CT004A	CT006	CT008	CT012
Suction connection	4" 150# ANSI B16.5	4" 150# ANSI B16.5	6" 150# ANSI B16.5	8" 150# ANSI B16.5	12" 150# ANSI B16.5
Delivery connection	4" 150# ANSI B16.5	4" 150# ANSI B16.5	6" 150# ANSI B16.5	8" 150# ANSI B16.5	12" 150# ANSI B16.5
Max capacity	1000 GPM	1300 GPM	2300 USGPM	3750 GPM	6500 GPM
Max solids handling	2"	2"	3.0"	3.125"	3.125"
Max impeller diameter	8.7"	10.2"	10.8"	12.2"	13.8"
Max head (TDH)	93'	152'	145'	140'	117'
Max operating speed	2000 RPM	2200 RPM	2000 RPM	1900 rpm	1730 RPM
Max suction lift	28'	28'	25'	24'	24'
Dimensions	60 x 87 x 75"	65 x 93 x 132"	65 x 93 x 132"	65 x 96 x 148"	63 x 83 x 128"
Sound levels w/ enclosure	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'
Max fuel consumption	(1) At 11 HP; up to 3 days	At 47 HP; up to 24 hr run time	At 67 HP; up to 20 hr run time	At 75 HP; up to 24 hr run time	Up to 24 hrs





# ECO PRIMERITE™ CT004

## 4" X 4" AUTOMATIC DRY SELF-PRIMING TRASH PUMP

### APPLICATIONS

**Construction  
Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Mining/Quarries**

**Municipal**

**General Industrial**

The Eco Primerite™ self-priming trash pump provides value and efficiency to contractors, pump rental companies, mining operators or municipalities the moment it hits the jobsite. The pump's oil-filled bearing box, mechanical seal in an oil bath and low fuel consumption enables it to run dry all day long for up to 3 days<sup>(1)</sup>, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. With flows up to 93' TDH and 1000 GPM, this 4" pump can easily move slurries and brackish water with little maintenance required. This pump is completely self-contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.

### FEATURES

- Substantial return on investment
- Low fuel consumption - run up to 3 days
- Easily pump slurries/brackish water
- Optimal HP for price/performance
- Lower maintenance costs
- Primes and reprimed automatically
- Solids handling up to 2"
- Engine driven compressor
- Lockable fuel cap
- Vacuum and discharge pressure gauge
- Torsion bar axle
- Integral 28 fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch - Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines - Yanmar 3TNV88
- Flexible flywheel coupling
- 4" ANSI Pattern flanges - Suction and discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

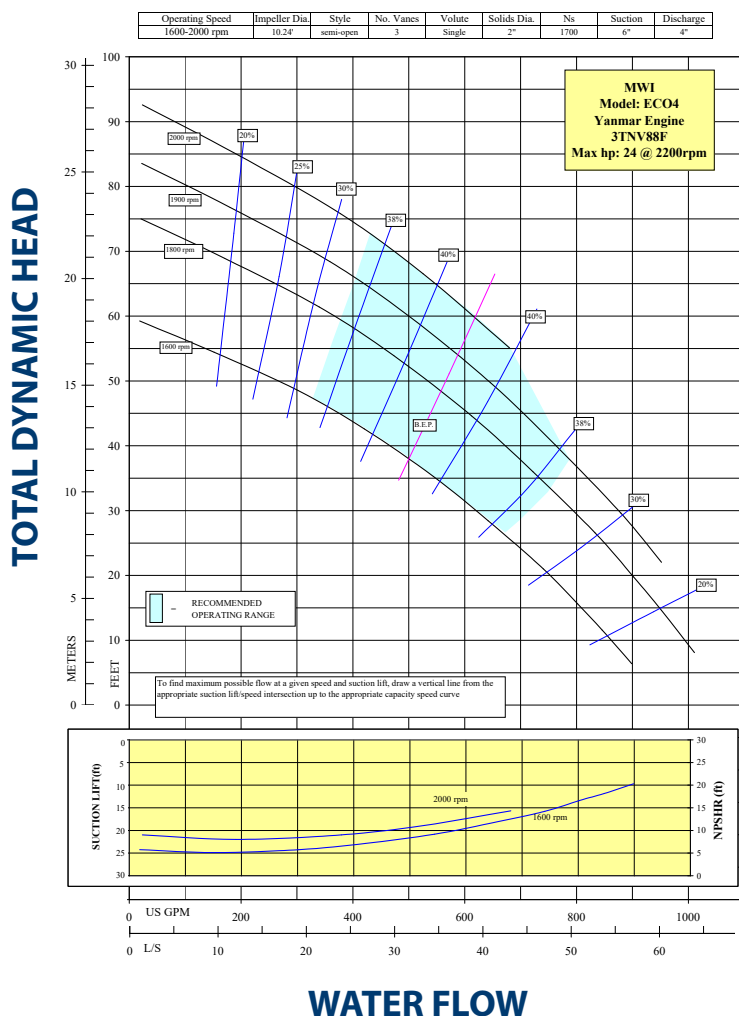
### QUICK SPECIFICATIONS

Suction connection	4" 150# ANSI B16.5
Delivery connection	4" 150# ANSI B16.5
Max capacity	1000 GPM
Max solids handling	2"
Max impeller diameter	8.7"
Max head (TDH)	93'
Max operating speed	2000 RPM
Max suction lift	28'
Dimensions	60 x 87 x 75"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	(1) At 11 HP; up to 3 days





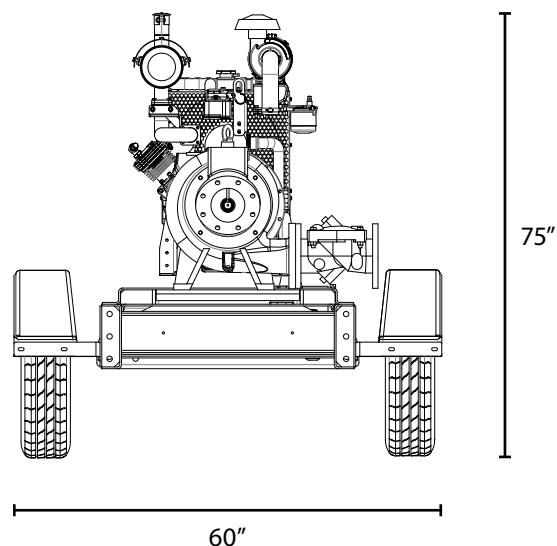
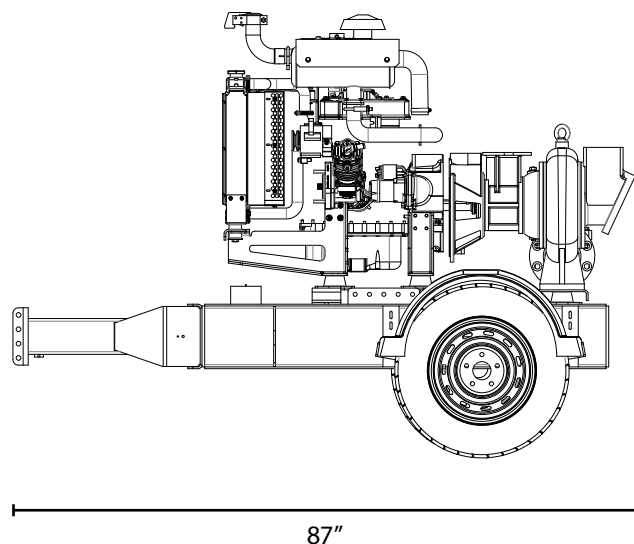
## PERFORMANCE CURVE



## MATERIALS & SPECIFICATIONS

Standard engine	Yanmar engine
Max HP	24 HP
Fuel capacity	28 Gal
Drive type	Flywheel direct drive flexible element
Impeller	High chromium cast iron
Volute	Ductile cast iron ASTM A536 grade 70-50-05
Pump shaft	1045 Steel; Stainless steel option
Compressor	Engine-driven, oil lubricated
Priming assembly	304 Stainless steel venturi
Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Weight of trailer mounted unit	2300 lbs (dry)

## DIMENSIONS





# PRIMERITE™ CT004A

## 4" X 4" AUTOMATIC DRY SELF-PRIMING TRASH PUMP

### APPLICATIONS

**Construction  
Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Mining/Quarries**

**Municipal**

**General Industrial**

The Primerite™ is the perfect pump for contractors, pump rental companies, mining operators and general industrial or municipal use. The pump's oil-filled bearing box and a mechanical seal in an oil bath enable it to run dry all day long for up to 24 hours, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. This pump is completely self contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.

### FEATURES

- Primes and reprimed automatically
- Solids handling up to 2"
- Engine driven compressor
- Vacuum and discharge pressure gauge
- Lockable fuel cap
- Forklift slots (skid models)
- Torsion bar axle
- Integral 78 gallon fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Hydraulic surge brakes standard, electric brakes available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch – Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines – Caterpillar, Perkins, John Deere and Deutz available
- Flexible flywheel coupling
- 4" ANSI Pattern flanges – Suction and discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

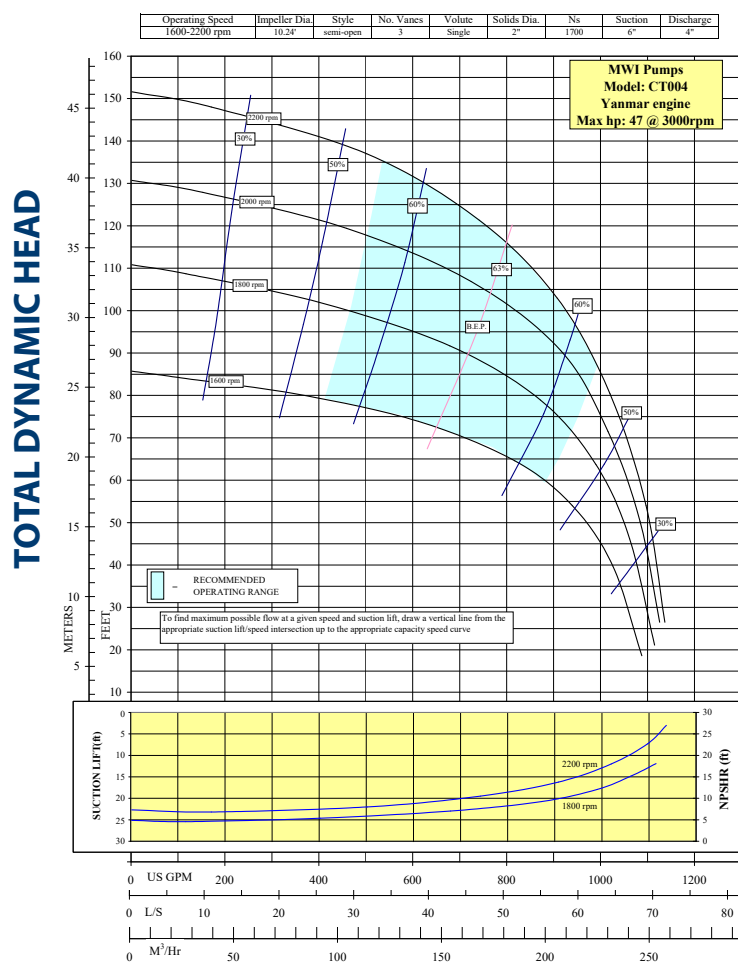
### QUICK SPECIFICATIONS

Suction connection	4" 150# ANSI B16.5
Delivery connection	4" 150# ANSI B16.5
Max capacity	1300 GPM
Max solids handling	2"
Max impeller diameter	10.2"
Max head (TDH)	152'
Max operating speed	2200 RPM
Max suction lift	28'
Dimensions	65 x 93 x 132"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	At 47 HP; up to 24 hr run time





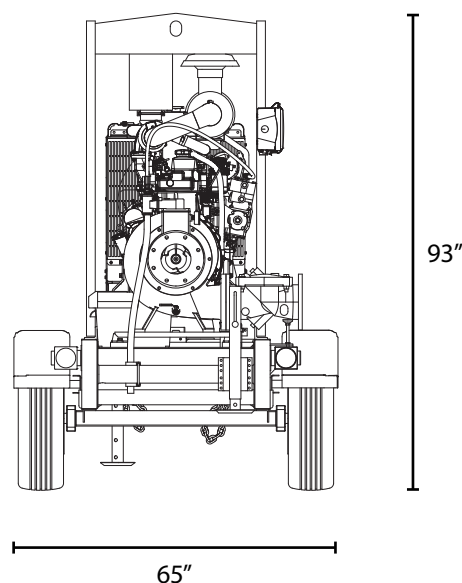
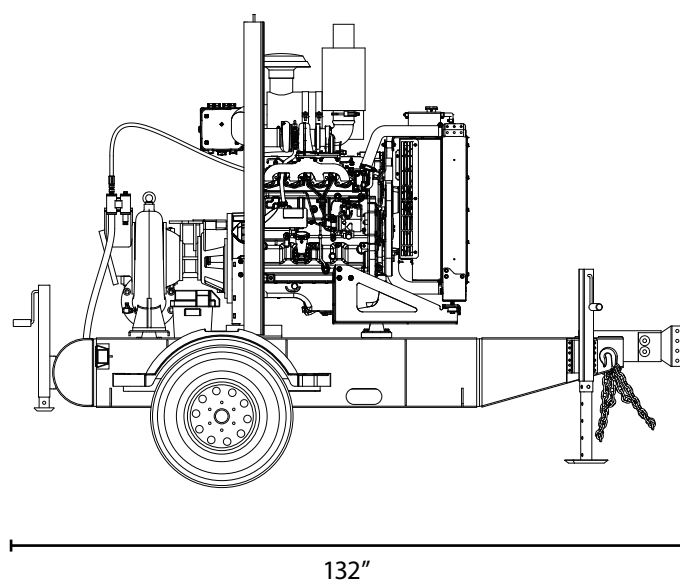
## PERFORMANCE CURVE



## MATERIALS & SPECIFICATIONS

Standard engine	Yanmar engine (Caterpillar, Perkins, John Deere and Deutz available)
Max HP	47 HP
Fuel capacity	78 Gal
Drive type	Flywheel direct drive flexible element
Impeller	CA-40 Corrosion resistant iron/chromium alloy
Volute	Ductile cast iron ASTM A536 grade 70-50-05
Pump shaft	1045 Steel; Stainless steel option
Compressor	Engine-driven, oil lubricated and water cooled
Priming assembly	304 Stainless steel venturi
Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Weight of trailer mounted unit	2650 lbs (dry)

## DIMENSIONS



# PRIMERITE™ CT006

## 6" X 6" AUTOMATIC DRY SELF-PRIMING TRASH PUMP

### APPLICATIONS

**Construction  
Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Mining/Quarries**

**Municipal**

**General Industrial**

The Primerite™ is the perfect pump for contractors, pump rental companies, mining operators and general industrial or municipal use. The pump's oil-filled bearing box and a mechanical seal in an oil bath enable it to run dry all day long for up to 24 hours, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. This pump is completely self contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.

### FEATURES

- Primes and reprimed automatically
- Solids handling up to 3"
- Engine driven compressor
- Vacuum and discharge pressure gauge
- Lockable fuel cap
- Forklift slots (skid models)
- Torsion bar axle
- Integral 78 gallon fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Hydraulic surge brakes standard, electric brakes available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch – Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines – Caterpillar, Perkins, John Deere and Deutz available
- Flexible flywheel coupling
- 6" ANSI Pattern flanges – Suction and discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

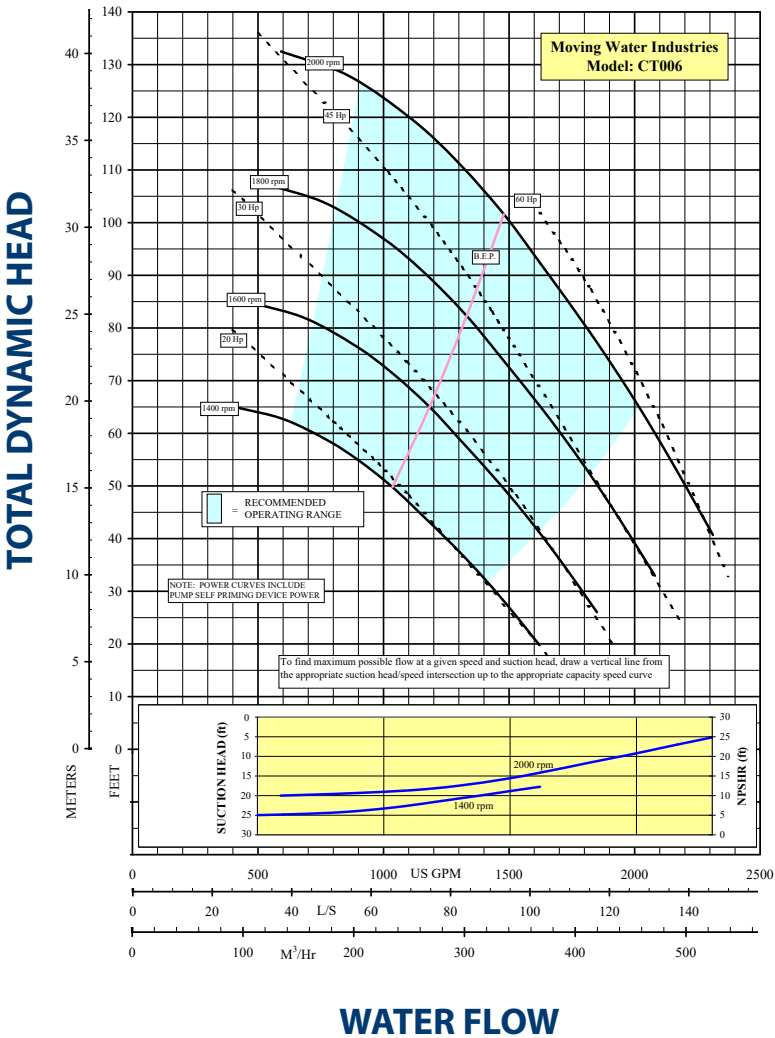
### QUICK SPECIFICATIONS

Suction connection	6" 150# ANSI B16.5
Delivery connection	6" 150# ANSI B16.5
Max capacity	2300 USGPM
Max solids handling	3.0"
Max impeller diameter	10.8"
Max head (TDH)	145'
Max operating speed	2000 RPM
Max suction lift	25'
Dimensions	65 x 93 x 132"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	At 67 HP; up to 20 hr run time



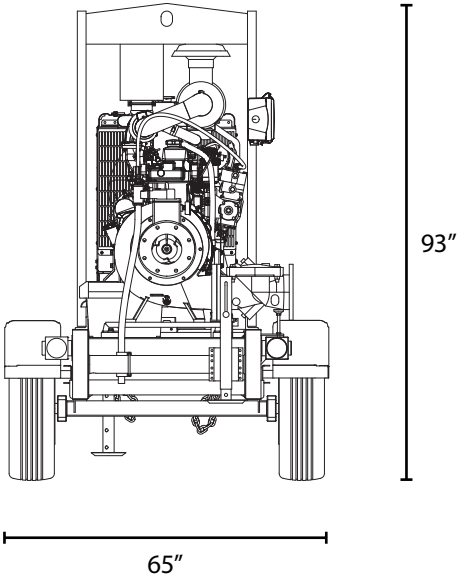
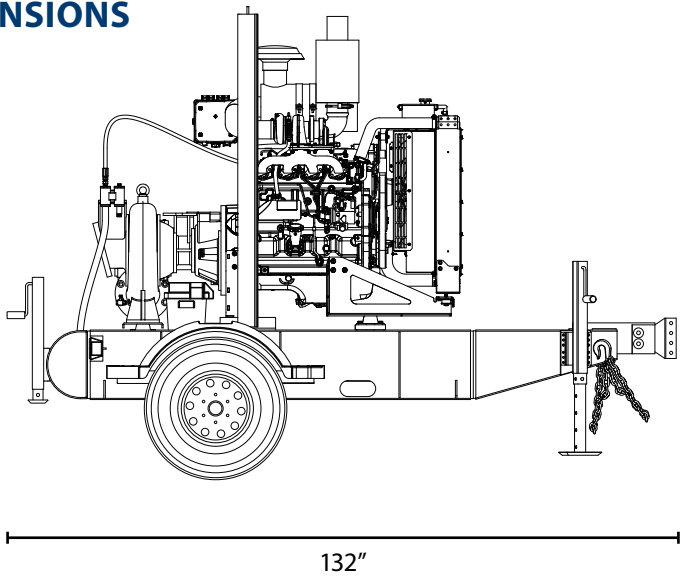


PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS	
Standard engine	John Deere 4045TF290
Max HP	74 HP
Fuel capacity	78 Gal
Drive type	Flywheel direct drive flexible element
Impeller	CA-40 Corrosion resistant iron/chromium alloy
Volute	Ductile cast iron ASTM A536 grade 70-50-05
Pump shaft	1045 Steel; Stainless steel option
Compressor	Engine-driven, oil lubricated and water cooled
Priming assembly	304 Stainless steel venturi
Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Weight of trailer mounted unit	3450 lbs (dry)

DIMENSIONS



# PRIMERITE™ CT008

## 8" X 8" AUTOMATIC DRY SELF-PRIMING TRASH PUMP

### APPLICATIONS

**Construction**

**Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Mining/Quarries**

**Municipal**

**General Industrial**

The Primerite™ is the perfect pump for contractors, pump rental companies, mining operators and general industrial or municipal use. The pump's oil-filled bearing box and a mechanical seal in an oil bath enable it to run dry all day long for up to 24 hours, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. This pump is completely self contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.

### FEATURES

- Primes and reprimed automatically
- Solids handling up to 3.125"
- Engine driven compressor
- Vacuum and discharge pressure gauge
- Lockable fuel cap
- Forklift slots (skid models)
- Torsion bar axle
- Integral 94 gallon fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Hydraulic surge brakes standard, electric brakes available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch – Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines – Caterpillar, Perkins, John Deere and Deutz available
- Flexible flywheel coupling
- 8" ANSI Pattern flanges – Suction and discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

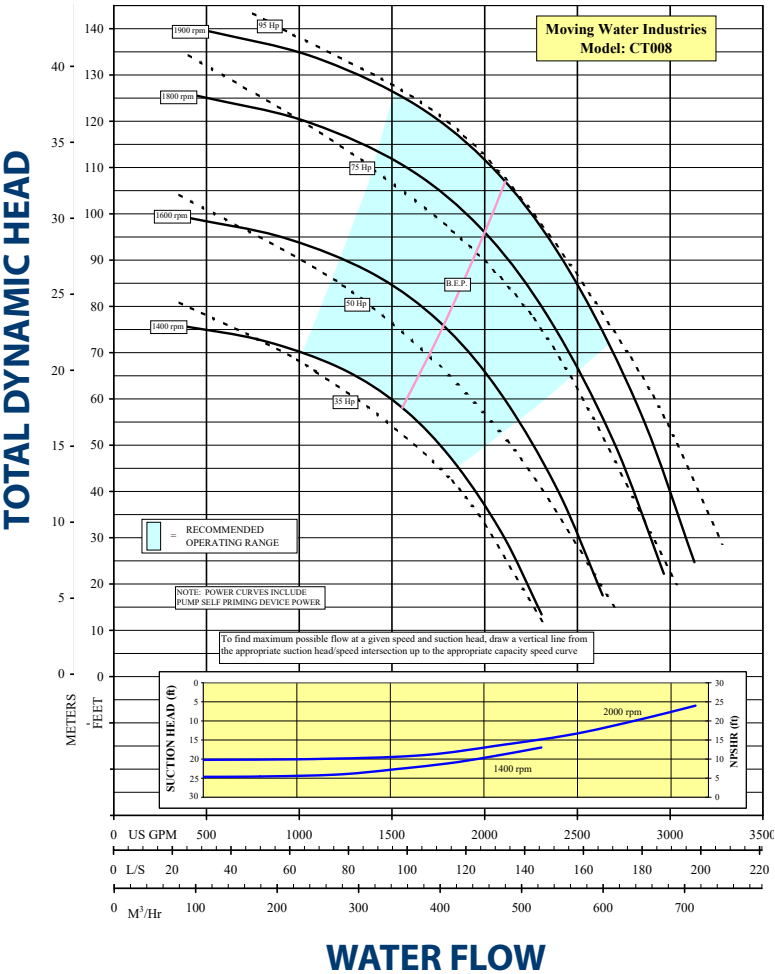
### QUICK SPECIFICATIONS

Suction connection	8" 150# ANSI B16.5
Delivery connection	8" 150# ANSI B16.5
Max capacity	3750 GPM
Max solids handling	3.125"
Max impeller diameter	12.2"
Max head (TDH)	140'
Max operating speed	1900 rpm
Max suction lift	24'
Dimensions	65 x 96 x 148"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	At 75 HP; up to 24 hr run time

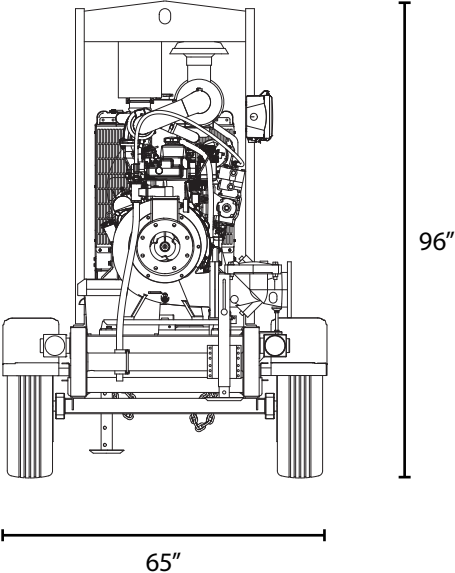
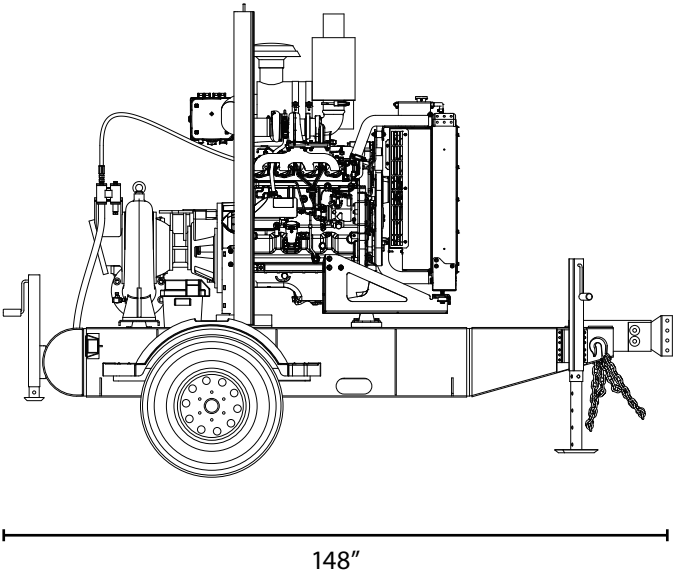




PERFORMANCE CURVE



DIMENSIONS



MATERIALS & SPECIFICATIONS	
Standard engine	John Deere 4045HF280 (Caterpillar, Perkins, John Deere and Deutz available)
Max HP	99 HP
Fuel capacity	94 Gal
Drive type	Flywheel direct drive flexible element
Impeller	CA-40 Corrosion resistant iron/chromium alloy
Volute	Ductile cast iron ASTM A536 grade 70-50-05
Pump shaft	1045 Steel; Stainless steel option
Compressor	Engine-driven, oil lubricated and water cooled
Priming assembly	304 Stainless steel venturi
Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Weight of trailer mounted unit	3900 lbs (dry)

# PRIMERITE™ CT012

## 12" X 12" AUTOMATIC DRY SELF-PRIMING TRASH PUMP

### APPLICATIONS

**Construction  
Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Mining/Quarries**

**Municipal**

**General Industrial**

The Primerite™ is the perfect pump for contractors, pump rental companies, mining operators and general industrial or municipal use. The pump's oil-filled bearing box and a mechanical seal in an oil bath enable it to run dry all day long for up to 24 hours, making it the right choice for handling inconsistent flows found in sewage bypass pumping and job site dewatering. This pump is completely self contained in either skid or trailer configurations with integral lifting bail, tie downs and fuel tank.

### FEATURES

- "Enviro-Safe" priming system, designed for no product leakage
- Solids handling to 3.125"
- Vacuum and discharge pressure gauge
- Lockable fuel cap
- Forklift slots (skid models)
- Torsion bar axle
- Integral 198 gallon fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Hydraulic surge brakes standard, electric brakes available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch – Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines – Caterpillar, Perkins, John Deere and Deutz available
- Flexible flywheel coupling
- 12" ANSI Pattern flanges – Suction and discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

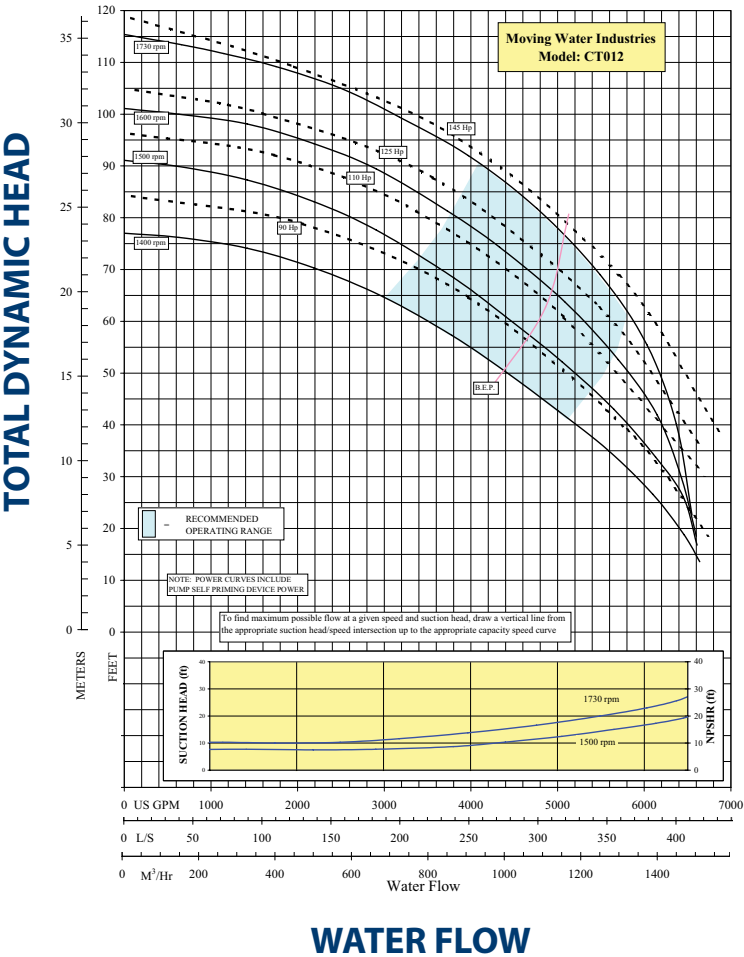
### QUICK SPECIFICATIONS

Suction connection	12" 150# ANSI B16.5
Delivery connection	12" 150# ANSI B16.5
Max capacity	6500 GPM
Max solids handling	3.125"
Max impeller diameter	13.8"
Max head (TDH)	117'
Max operating speed	1730 RPM
Max suction lift	24'
Dimensions	63 x 83 x 128"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	Up to 24 hrs



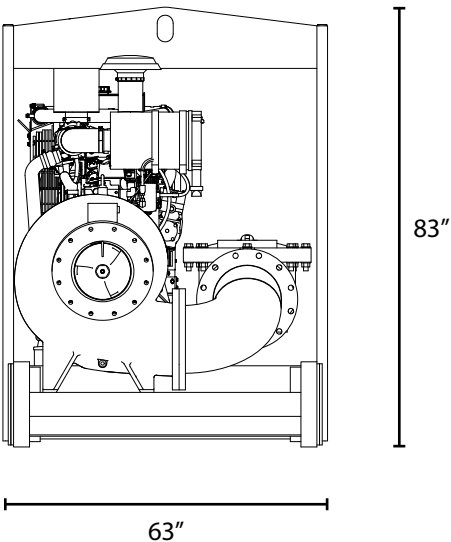
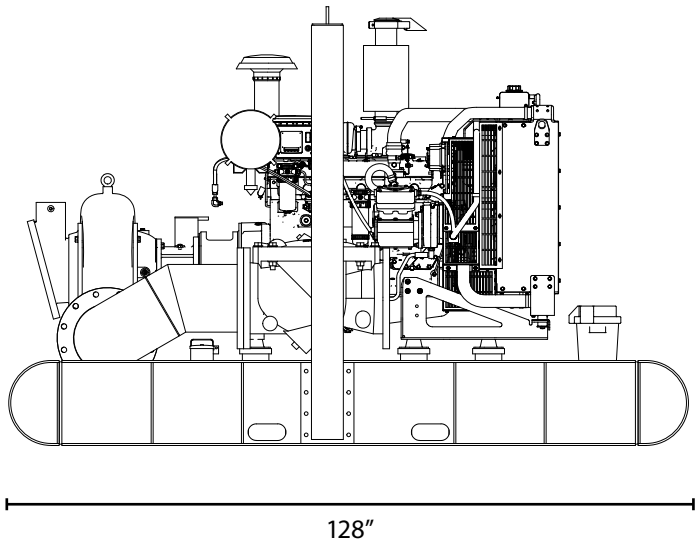


# PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS	
Standard engine	John Deere 6068HF285 (Caterpillar, Perkins, John Deere and Deutz available)
Max HP	156 HP
Fuel capacity	198 Gal
Drive type	Flywheel direct drive flexible element
Impeller	Abrasion resistant materials
Volute	Ductile cast iron ASTM A536 grade 70-50-05
Pump shaft	1045 Steel; Stainless steel option
Compressor	Engine-driven, oil lubricated and water cooled
Priming assembly	304 Stainless steel venturi
Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Weight of trailer mounted unit	7500 lbs (dry)

# DIMENSIONS





# MINEMASTER HIGH-HEAD & JET PUMP SERIES

## 4-6” HIGH PRESSURE INDUSTRIAL JET PUMPS & 6-8” HIGH-HEAD HIGH-LIFT MINING TRASH PUMPS

High pressure **Jet Pumps** make short work of gravel washing, drilling, pipeline testing, equipment cleaning, piling and wellpoint jetting, as well as any other high pressure applications. MWI Jet Pumps are heavy-duty water pumps that can handle the toughest jetting job with flows up to 4000 GPM, pressures up to 220 PSi and max head (TDH) up to 413’. These complete units are available skid-mounted or via a portable configuration. Each jet pump comes with an open industrial power unit, integral fuel tank, lifting bail, control panel and hand or compressor-driven priming system.

**Minemaster High-Head Primerite™** trash pumps are designed to handle the toughest mining jobs in the oil and gas industry and versatile enough to handle numerous industrial applications. Minemaster pumps are capable of flows to 5,100 GPM and Total Dynamic Heads (TDH) over 280’. These high-lift pumps are used by contractors, pump rental companies, mining / quarry operators or for general industrial or municipal use. The units are self-contained and ready to operate in either skid or portable configurations with an open industrial power unit, integral fuel tank, lifting bail, control panel and compressor-driven priming system.



SPECIFICATIONS	JP004	JP006	HHC 10 X 8
Suction connection	4” 150# ANSI B16.5	6” 150# ANSI B16.5	10” 150# ANSI B16.5
Delivery connection	2” FNPT	2” FNPT	8” 150# ANSI B16.5
Max capacity	680 GPM	1600 GPM	5100 GPM
Max solids handling	0.375”	0.5”	3.44”
Max impeller diameter	13.5”	17.875”	17.3”
Max head (TDH)	500’	500’	280’
Max operating speed	2800 RPM	2100 RPM	1800 RPM
Max suction lift	24’	24’	24’
Dimensions	94 x 37 x 78”	109 x 37 x 78”	82 x 105 x 175”
Sound levels w/ enclosure	67 dBA at 7M / 23’	67 dBA at 7M / 23’	67 dBA at 7M / 23’
Max fuel consumption	Up to 24 hrs, load dependent	Up to 24 hrs, load dependent	At 300 HP; up to 15 hr run time





# JET PUMP JP004

## 4" HIGH PRESSURE JET PUMP

### APPLICATIONS

**Wellpoint  
installation**

**High Pressure Jet  
Pumping**

**Remediation**

**Recharge**

**Fluid Transfer**

**Pigging**

**Construction**

**Mine or Quarry**

**Industrial**

**Municipal Use**

**Sock Dewatering**

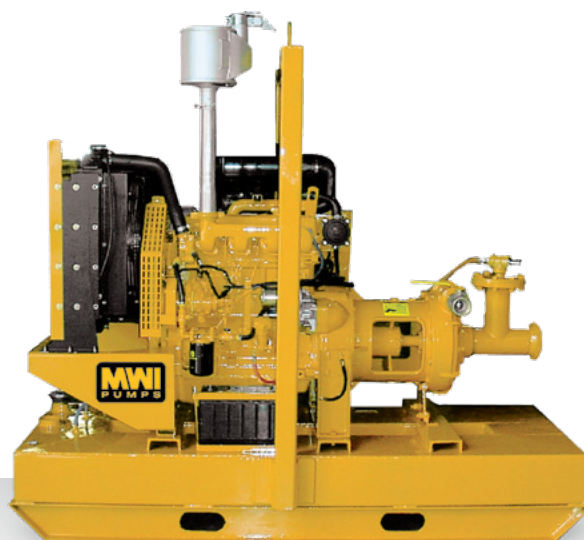
High Pressure Jet Pumps make short work of gravel washing, drilling, pipeline testing, equipment cleaning, piling and wellpoint jetting, as well as any other high pressure applications. The High Pressure Jet Pump is a heavy-duty water pump that can handle the toughest jetting job with flows to 680 GPM and Total Dynamic Head (TDH) up to 500'. These complete units are available skid-mounted or via a portable configuration. Each jet pump comes with an open industrial power unit, integral 78 gal fuel tank, lifting bail, control panel and hand or compressor-driven priming system.

### FEATURES

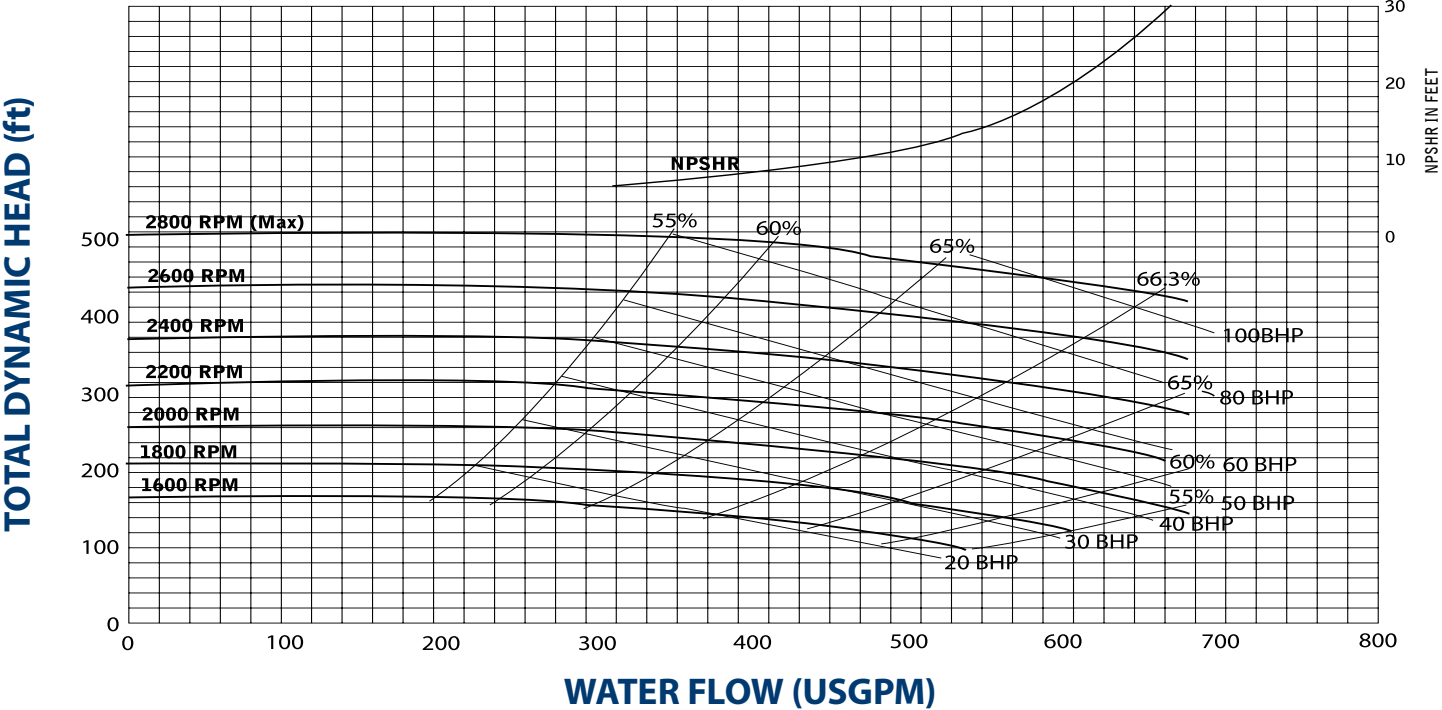
- Make short work of drilling, gravel washing, pipeline testing, and any other high pressure application
- Install wellpoints and run sprinkler systems at golf courses for temporary solutions
- Jet in sheet piling and sea walls
- Test building fire suppressant systems
- Integral 78 gallon fuel tank with gauge
- Flows to 680 GPM
- Total Dynamic Head (TDH) up to 500'
- Operate in skid or portable configurations
- Open industrial power unit
- Hand or compressor-driven priming system
- Integrated fuel tank with larger tanks available if requested
- Longevity – All fuel tanks are sized to operate continuously for 24 hours without refueling
- Manufactured in the USA

### QUICK SPECIFICATIONS

Suction connection	4" 150# ANSI B16.5
Delivery connection	2" FNPT
Max capacity	680 GPM
Max solids handling	0.375"
Max impeller diameter	13.5"
Max head (TDH)	500'
Max operating speed	2800 RPM
Max suction lift	24'
Dimensions	94 x 37 x 78"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	Up to 24 hrs, load dependent

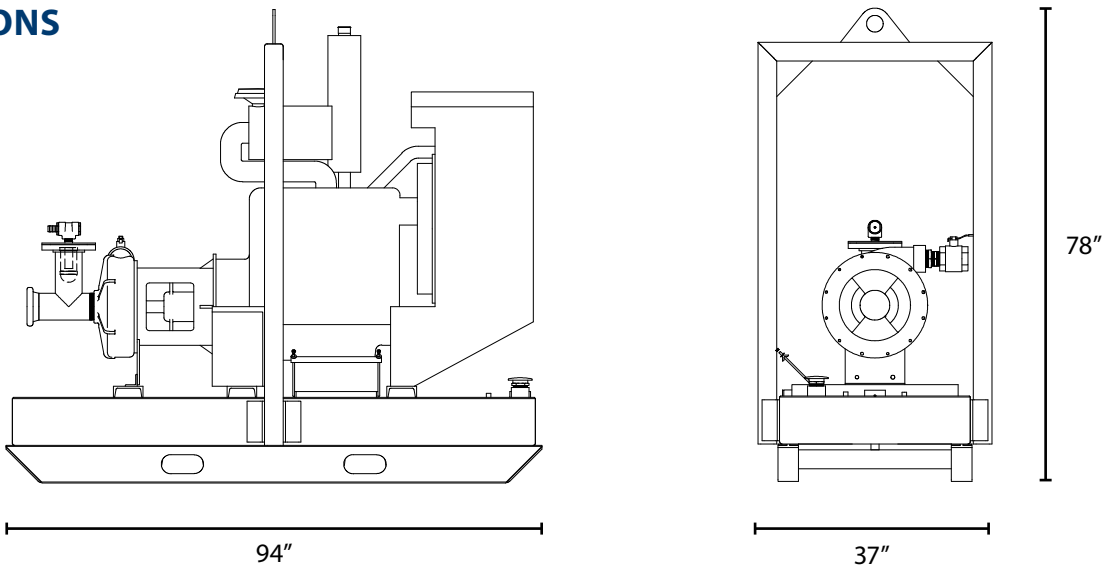


PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS					
Standard engine	Deutz TD2.9	Volute	Cast iron, ASTM A48 Class 30	Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Max HP	74 HP	Pump shaft	Carbon steel, AISI 1045		
Fuel capacity	78 Gal	Compressor	Engine driven, oil lubricated		
Drive type	Flywheel direct drive, isolator disc design	Mechanical seal	Stainless steel w/ silicon carbide faces; Buna elastomers	Discharge non-return valve	600 PSI manual ball valve
Impeller	ASTM A48 Class 30	Weight of trailer mounted unit	3600 lbs (dry)		
Priming assembly	304 Stainless steel venturi				

DIMENSIONS





# JET PUMP JP006

## 6" HIGH PRESSURE INDUSTRIAL JET PUMP

### APPLICATIONS

**Wellpoint  
installation**

**High Pressure Jet  
Pumping**

**Remediation**

**Recharge**

**Multiple Fluid  
Transfer Capabilities**

**Construction**

**Mine or Quarry**

**Industrial**

**Sock Dewatering**

High Pressure Jet Pumps make short work of gravel washing, drilling, pipeline testing, equipment cleaning, piling and wellpoint jetting, as well as any other high pressure applications. The High Pressure Jet Pump is a heavy-duty water pump that can handle the toughest jetting job with flows to 1600 GPM and Total Dynamic Head (TDH) up to 500'. These complete units are available skid-mounted or via a portable configuration. Each jet pump comes with an open industrial power unit, integral 94 gal fuel tank, lifting bail, control panel and hand or compressor-driven priming system.

### FEATURES

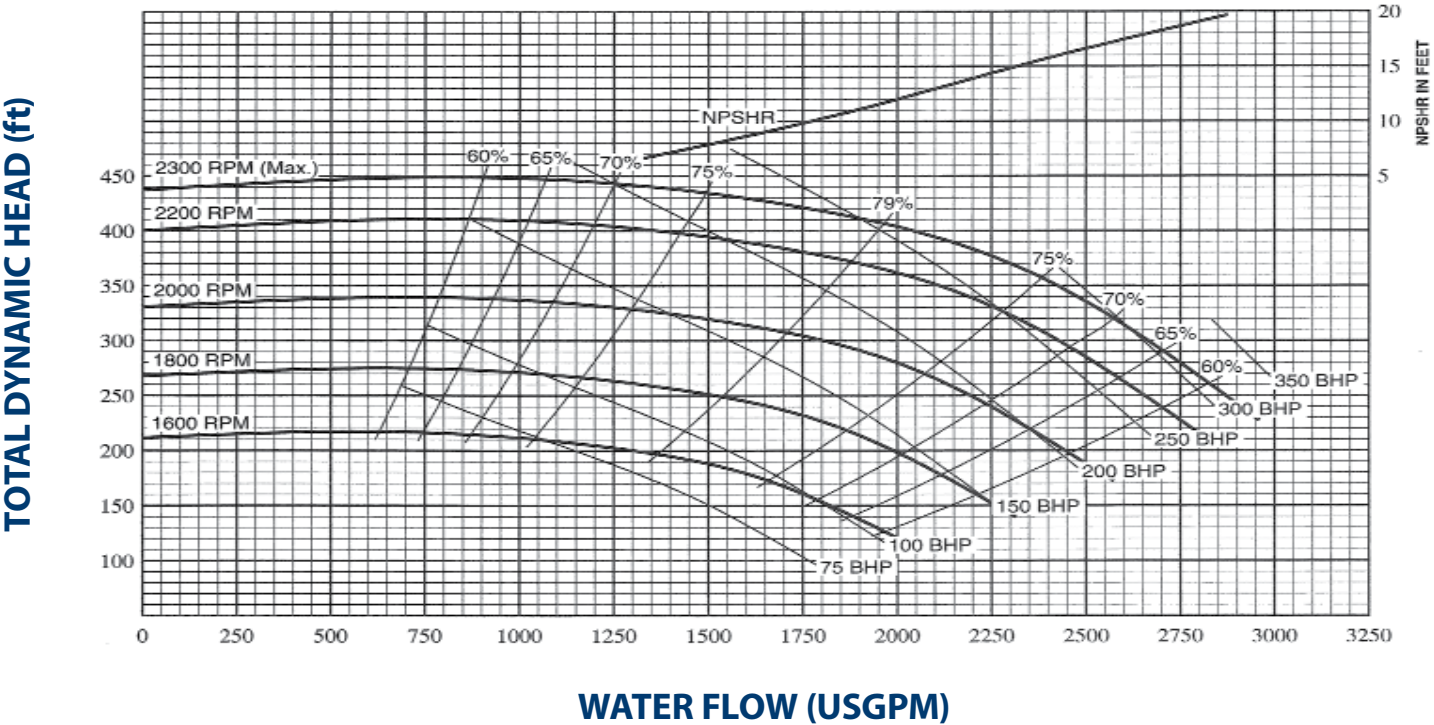
- Make short work of drilling, gravel washing, pipeline testing, and any other high pressure application
- Install wellpoints and run sprinkler systems at golf courses for temporary solutions
- Jet in sheet piling and sea walls
- Test building fire suppressant systems
- Integral 94 gallon fuel tank with gauge
- Flows to 1600 GPM
- Total Dynamic Head (TDH) up to 500'
- Operate in skid or portable configurations
- Open industrial power unit
- Hand or compressor-driven priming system
- Integrated fuel tank with larger tanks available if requested
- Longevity – All fuel tanks are sized to operate continuously for 24 hours without refueling
- Manufactured in the USA

### QUICK SPECIFICATIONS

Suction connection	6" 150# ANSI B16.5
Delivery connection	2" FNPT
Max capacity	1600 GPM
Max solids handling	0.5"
Max impeller diameter	17.875"
Max head (TDH)	500'
Max operating speed	2100 RPM
Max suction lift	24'
Dimensions	109 x 37 x 78"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	Up to 24 hrs, load dependent

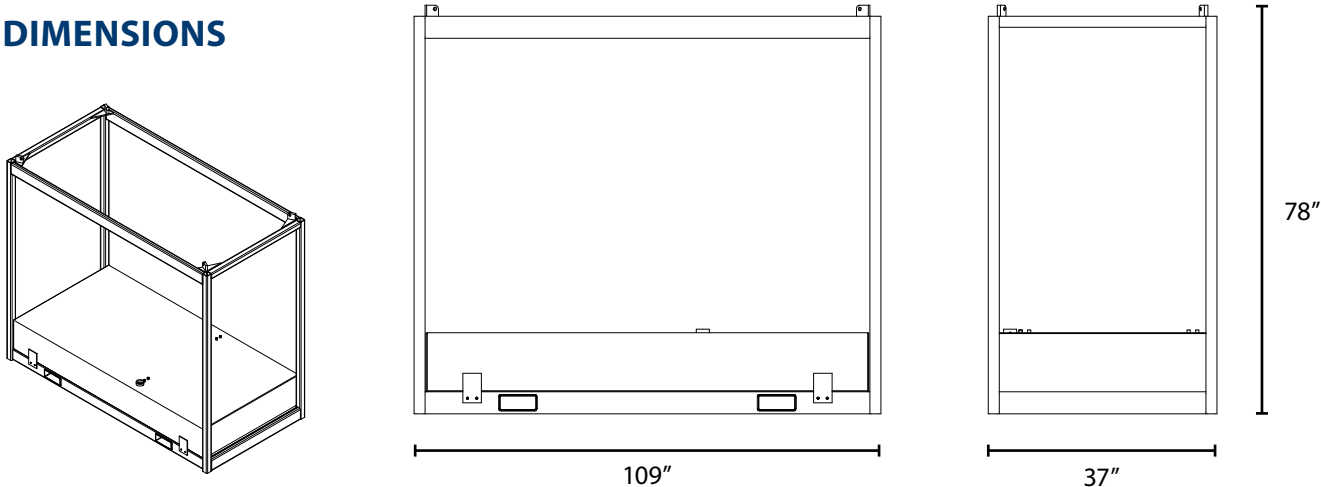


PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS					
Standard engine	Deutz TCD3.6	Volute	Cast iron, ASTM A48 Class 30	Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Max HP	136 HP	Pump shaft	Carbon steel, AISI 1045		
Fuel capacity	94 Gal	Compressor	Engine driven, oil lubricated		
Drive type	Flywheel direct drive, isolator disc design	Mechanical seal	Stainless steel w/ silicon carbide faces; Buna elastomers	Discharge non-return valve	600 PSI manual ball valve
Impeller	ASTM A48 Class 30	Weight of trailer mounted unit	4900 lbs (dry)		
Priming assembly	304 Stainless steel venturi				

DIMENSIONS



# MINEMASTER PRIMERITE™ HHC 10 X 8

## 10 X 8" HIGH-HEAD HIGH-LIFT MINING TRASH PUMP

### APPLICATIONS

**Mining / Quarries**

**Construction  
Dewatering**

**Sewage Bypass**

**Flood Drainage**

**Municipal**

**Industrial**

The Minemaster High-Head Primerite™ HHC 10 x 8 is a powerful trash pump designed to handle the toughest mining jobs in the oil and gas industry and versatile enough to handle numerous industrial applications. These heavy-duty pumps can be used by contractors, pump rental companies, mining operators or for general industrial and municipal use. The units are self-contained and ready to operate in either skid or portable configurations with an open industrial power unit, integral 209 gallon fuel tank, lifting bail, control panel and compressor-driven priming system. The pump is capable of flows to 5,100 GPM and Total Dynamic Heads (TDH) over 280'.

### FEATURES

- Primes and reprimers automatically
- Solids handling up to 3.44"
- Engine driven compressor
- Vacuum and discharge pressure gauge
- Lockable fuel cap
- Forklift slots (skid models)
- Torsion bar axle
- Integral 209 gallon fuel tank with gauge
- Skid or optional trailer-mounted
- DOT light kit available
- Hydraulic surge brakes standard, electric brakes available
- Front and rear stabilizing jacks
- 3" Lunette ring for pintle hitch – Other options available
- Lifting bail
- Volute drain
- Heavy-duty truck tie downs
- Engines – Caterpillar, Perkins, John Deere and Deutz available
- Flexible flywheel coupling
- 10" ANSI Pattern flanges – Suction and 8" discharge
- Optional float activated, auto start/stop controls
- Manufactured in the USA

### QUICK SPECIFICATIONS

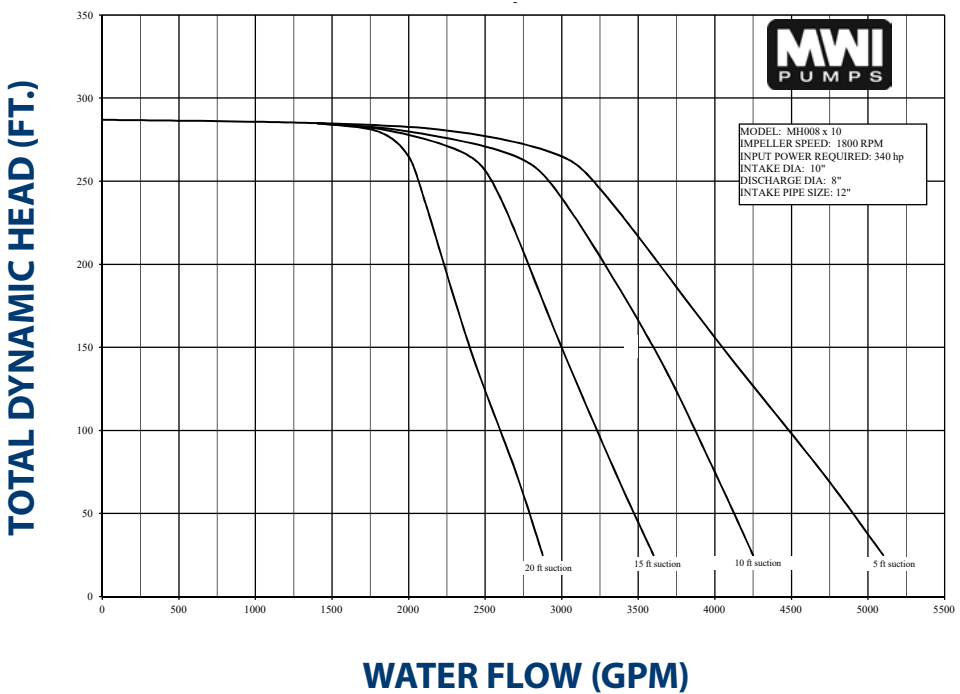
Suction connection	10" 150# ANSI B16.5
Delivery connection	8" 150# ANSI B16.5
Max capacity	5100 GPM
Max solids handling	3.44"
Max impeller diameter	17.3"
Max head (TDH)	280'
Max operating speed	1800 RPM
Max suction lift	24'
Dimensions (skid)	82 x 105 x 175"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	At 300 HP; up to 15 hr run time



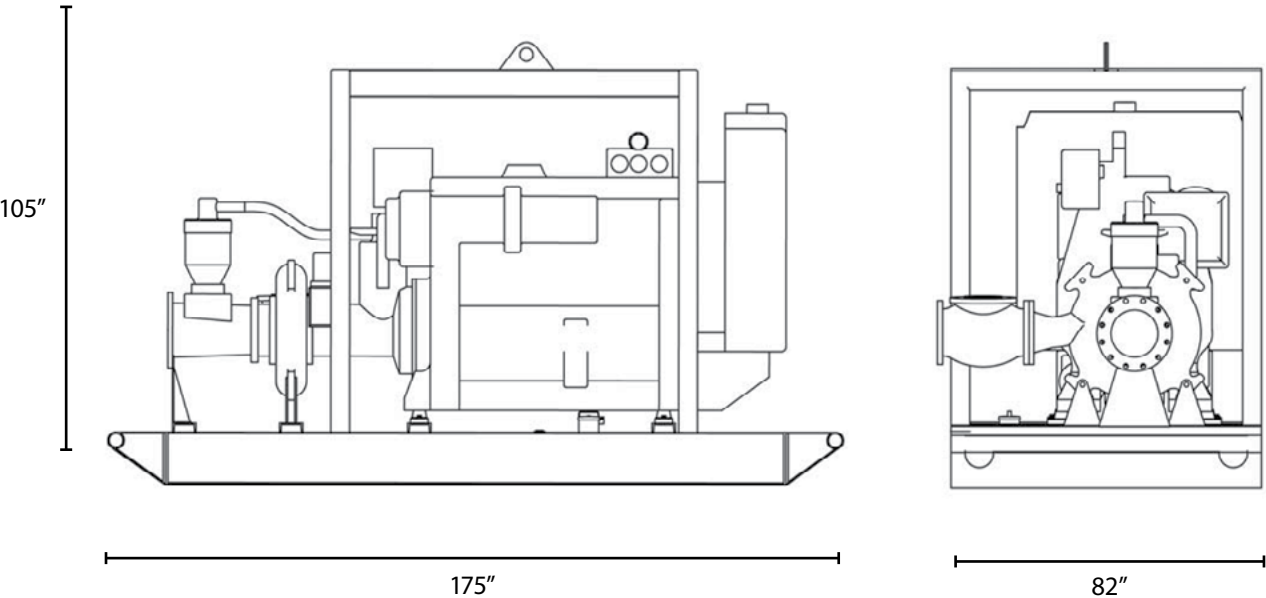


MATERIALS & SPECIFICATIONS			
Standard engine	John Deere 6090HF485 (Caterpillar, Perkins, John Deere and Deutz available)	Priming assembly	304 Stainless steel venturi
Max HP	350 HP	Control panel	Tach and hour meter, including shutdowns for low oil pressure, high coolant temperature, Plug-N-Play and float-ready
Fuel capacity	209 Gal		
Drive type	Flywheel direct drive flexible element	Discharge non-return valve	Val-matic swing flex check valve ASTM A536 grade 65-45-12
Impeller	CA-40 Corrosion resistant iron/chromium alloy	Mechanical seal	Stainless steel with silicon carbide faces; Buna elastomers
Volute	Ductile cast iron ASTM A536 grade 70-50-05		
Pump shaft	1045 Steel; Stainless steel option	Weight of trailer mounted unit	6500 lbs (dry)
Compressor	Engine-driven, oil lubricated and water cooled		

PERFORMANCE CURVE



DIMENSIONS



MINEMASTER PRIMERITE™ HHC 10 X 8

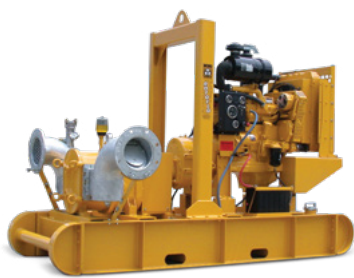


# ROTOFLO™ SERIES

## 6-10” WELLPOINT DEWATERING PUMPS

The **Rotoflo™ series** - with capacities up to X GPM, solid handling up to 3.125” and a max head (TDH) of up to Y’ are reliable rotary lobe, self-priming, valve-less positive-displacement pumps that are made for construction dewatering. Whether you are using a wellpoint or sock system, the highly-efficient air/water handling capabilities utilizes less fuel while providing less hassles. Additionally, the pumps’ simple design eliminates the need for complicated vacuum priming, floats and air/water separation systems which are known to be unreliable.

Downtime is substantially reduced thanks to the maintenance-on-site design. Each pump comes equipped with a quick-release cover that can be removed with conventional hand tools to provide easy access to the inner parts without having to remove any critical components. Its 100% bolt-together design adds flexibility to your operations by allowing multiple units to be easily combined for maximum output. With inexpensive spare parts, low maintenance, and rugged components, these pumps costs less than comparable pump systems and can be set up and running in a fraction of the time.



SPECIFICATIONS	COMPACT RWP006	RWP006	RWP008	RWP010
Suction connection	6" 150# ANSI B16.5	6" 150# ANSI B16.5	8" 150# ANSI B16.5	10" 150# ANSI B16.5
Delivery connection	6" 150# ANSI B16.5	6" 150# ANSI B16.5	8" 150# ANSI B16.5	10" 150# ANSI B16.5
Max capacity	425 GPM	506 GPM	1365 GPM	1805 GPM
Max solids handling	1.6"	1.6"	2.95	2.95
Max impeller diameter	208'	134'	268'	138'
Max head (TDH)	600 RPM	700 RPM	600 RPM	600 RPM
Max operating speed	63 x 63 x 83"	40 x 108 x 77"	51.25 x 108 x 73.5"	75 x 108 x 84"
Max suction lift	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'
Dimensions	Up to 5 days depending on load	24 hr run time	24 hr run time	24 hr run time
Sound levels w/ enclosure	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'	67 dBA at 7M / 23'
Max fuel consumption	(1) At 11 HP; up to 3 days	At 47 HP; up to 24 hr run time	At 67 HP; up to 20 hr run time	At 75 HP; up to 24 hr run time





# COMPACT ROTOFLO™ RWP006

## 6" WELLPOINT DEWATERING WATER PUMP

### APPLICATIONS

**Construction**

**Wellpoint**

**Sock Dewatering**

**Remediation**

**Recharge**

**Multiple Fluid  
Transfer Capabilities**

The Compact RotoFlo™ is a reliable rotary lobe, self-priming, valve-less positive-displacement pump that is made for construction dewatering. Its small, mobile footprint and sound enclosure makes it an agile and unassuming ally when facing tough water pumping challenges in residential neighborhoods or areas where sound must be kept to a minimum. Whether you are using a wellpoint or sock system, the highly-efficient air/water handling capabilities utilizes less fuel while providing less hassles. Additionally, the pump's simple design eliminates the need for complicated vacuum priming, floats and air/water separation systems which are known to be unreliable.

Downtime is substantially reduced thanks to the maintenance-on-site design. Each pump comes with a quick-release cover that can be removed with conventional hand tools to provide easy access to the inner parts without having to remove critical components. Its 100% bolt-together design adds flexibility to your operations by allowing multiple units to be easily combined for maximum output. With inexpensive spare parts, low maintenance, and rugged components, this pump costs less than comparable pump systems and can be set up and running in a fraction of the time.

### FEATURES

- High performance (425 GPM and 208' TDH)
- Over 30% smaller and lighter than piston wellpoint pumps - Fits where others can't
- Silent enclosure standard (67dBA at 7M / 23') for residential areas
- Dry running mechanical seals
- Pumps slurries and brackish water
- Choice of diesel engines, electric motors, or hydraulically driven
- Integral 28 gallon fuel tank, gauge and lockable fuel cap
- Positive displacement tri-lobe spiral rotor
- Low fuel consumption - Runs up to 5 days straight
- Pulsation free design
- Skid or trailer available with easy vice-versa conversion
- Rotors, wear plates and seals are easily replaceable on site
- Manufactured in the USA

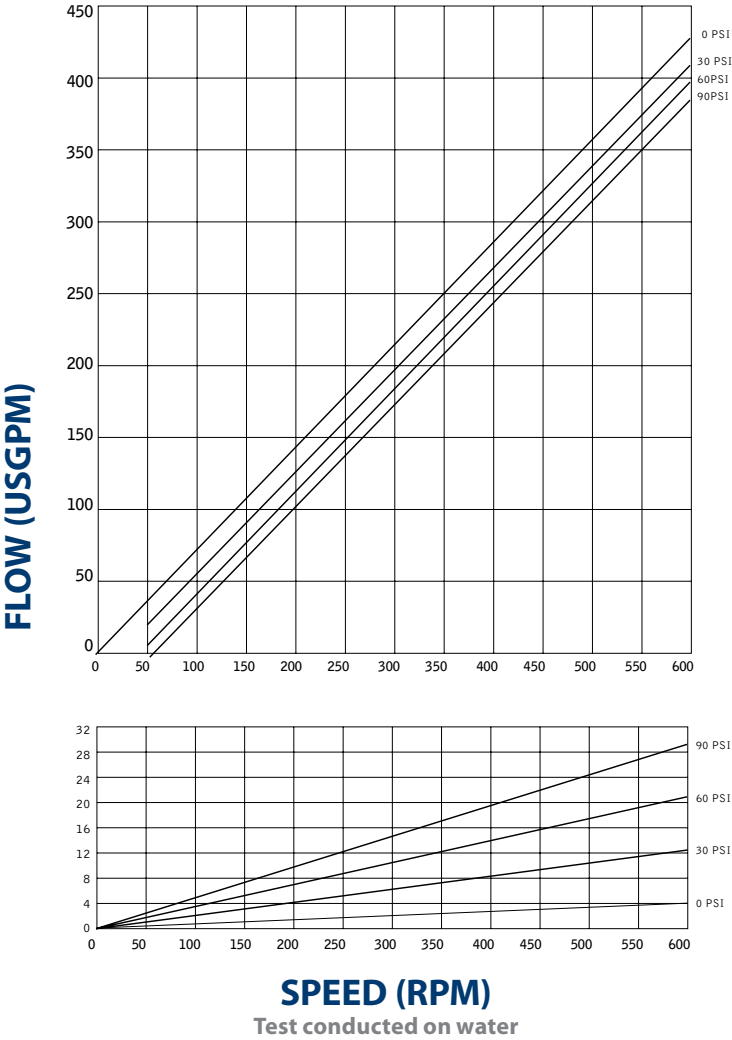
### QUICK SPECIFICATIONS

Suction connection	6" 150# ANSI B16.5
Delivery connection	6" 150# ANSI B16.5
Max capacity	425 GPM
Max solids handling	1.6"
Max head (TDH)	208'
Max operating speed	600 RPM
Dimensions	63 x 63 x 83"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	Up to 5 days depending on load

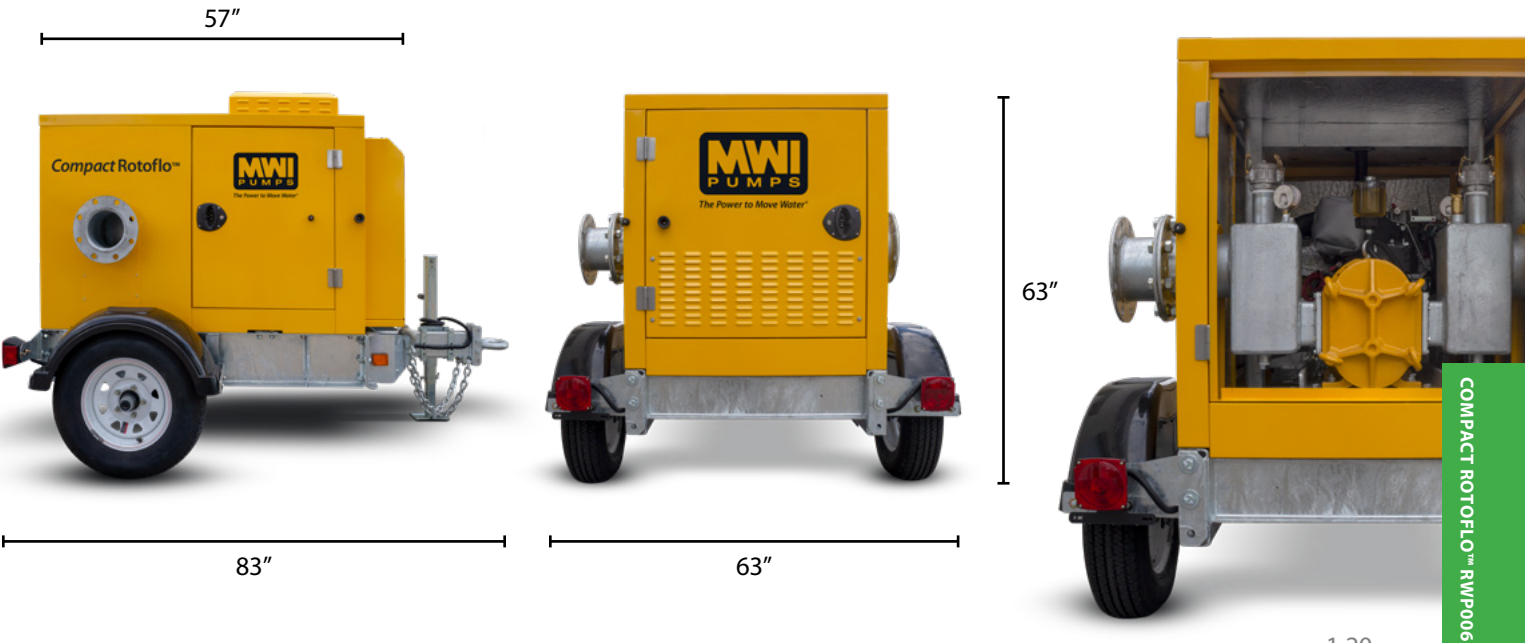




PERFORMANCE CURVE



DIMENSIONS



MATERIALS & SPECIFICATIONS	
Prime Mover	Choice of diesel, electric, or hydraulically driven motor
Pump casing	Single piece construction from cast iron lined with protection plates from stainless steel. Other materials of construction available.
Rotors	Low pulsation screw rotor design. Entirely Buna-N elastomer coated. Other elastomer materials available.
Wear liner	Stainless steel
Shaft material	Non-fluid-wetted from AIS 4140
Discharge	6" Flapper check valve
Mechanical seal	Oil bath, dry running seal, with abrasion resistant silicon carbide faces
Sound enclosure	16-gauge steel lined with sound insulation to achieve 67dBA at 7M / 23'
Accessories	Swing-joints, header pipe, wellpoints and jetting equipment
Diesel engine panel	Including hour meter and low oil pressure shutdown.
Electric panel	Full or reduced starter. Variable frequency drive (VFD) optional.
Fuel capacity	28 Gal
Weight of trailer mounted unit	2425 lbs (dry)

# ROTOFLO™ RWP006

## 6" WELLPOINT DEWATERING WATER PUMP

### APPLICATIONS

**Construction**

**Wellpoint**

**Sock Dewatering**

**Remediation**

**Recharge**

**Multiple  
Fluid Transfer  
Capabilities**

The Rotoflo™ is a reliable rotary lobe, self-priming, valve-less positive-displacement pump that is made for construction dewatering. Whether you are using a wellpoint or sock system, the highly-efficient air/water handling capabilities utilizes less fuel while providing less hassles. Additionally, the pump's simple design eliminates the need for complicated vacuum priming, floats and air/water separation systems which are known to be unreliable.

Downtime is substantially reduced thanks to the maintenance-on-site design. Each pump comes equipped with a quick-release cover that can be removed with conventional hand tools to provide easy access to the inner parts without having to remove any critical components. Its 100% bolt-together design adds flexibility to your operations by allowing multiple units to be easily combined for maximum output. With inexpensive spare parts, low maintenance, and rugged components, this pump costs less than comparable pump systems and can be set up and running in a fraction of the time.

### FEATURES

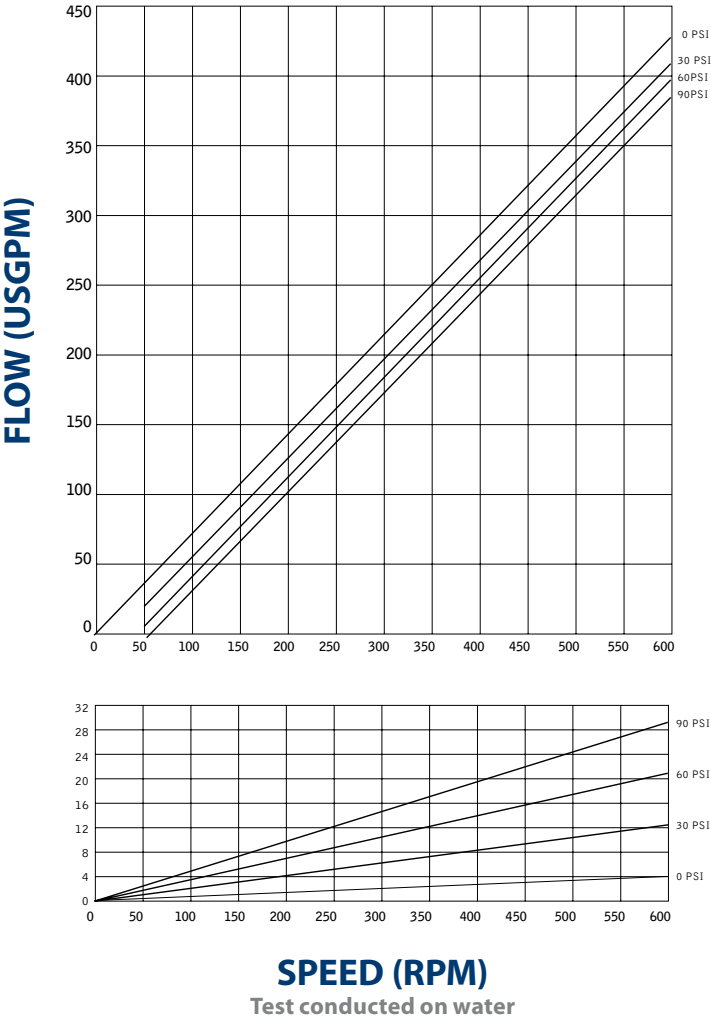
- High performance (506 GPM and 134' TDH)
- Integral 94 gallon fuel tank, gauge and lockable fuel cap
- Rotors, wear plates and seals are easily replaceable on site
- Dry running mechanical seals
- Fuel efficient
- Pulsation free design
- Skid or trailer available with easy vice-versa conversion
- Choice of diesel engines, electric motors, or hydraulically driven
- Positive displacement tri-lobe spiral rotor
- Silent enclosures available (67dBA at 7M / 23') for residential areas
- Manufactured in the USA

### QUICK SPECIFICATIONS

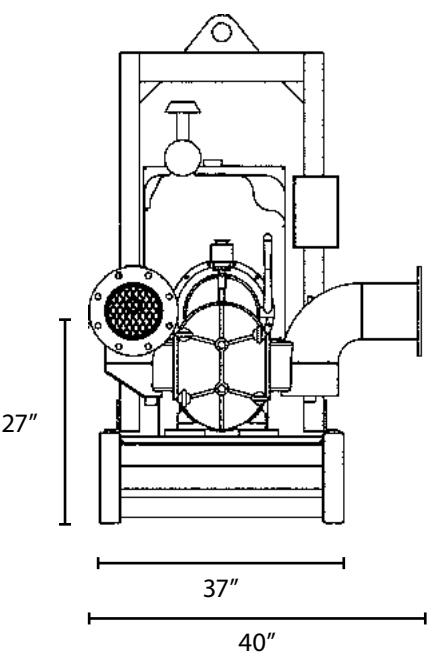
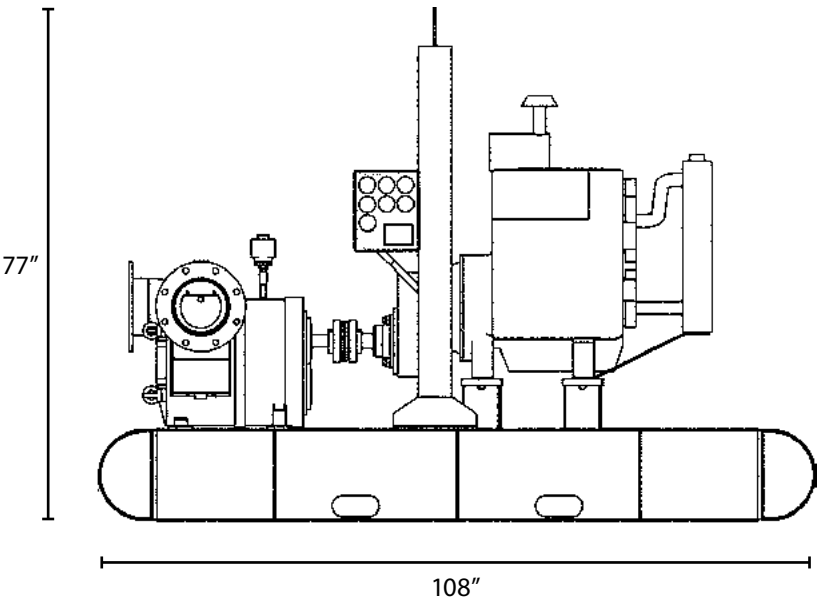
Suction connection	6" 150# ANSI B16.5
Delivery connection	6" 150# ANSI B16.5
Max capacity	506 GPM
Max solids handling	1.6"
Max head (TDH)	134'
Max operating speed	700 RPM
Dimensions	40 x 108 x 77"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	24 hr run time



PERFORMANCE CURVE



DIMENSIONS



MATERIALS & SPECIFICATIONS	
Engine	Choice of diesel, electric, or hydraulically driven motor
Pump casing	Single piece construction from cast iron lined with protection plates from stainless steel. Other materials of construction available.
Rotary lobes	Low pulsation screw rotor design. Entirely Buna-N elastomer coated. Other elastomer materials available.
Wear liner	Stainless steel
Shaft material	Non-fluid-wetted from AIS 4140
Discharge	6" Flapper check valve
Mechanical seal	Oil bath, dry running seal, with abrasion resistant silicon carbide faces
Accessories	Swing-joints, header pipe, wellpoints and jetting equipment
Control panel with safety shutdowns	Full or reduced starter. Including tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection
Fuel capacity	94 Gal
Weight of trailer mounted unit	2850 lbs (dry)



# ROTOFLO™ RWP008

## 8" WELLPOINT DEWATERING WATER PUMP

### APPLICATIONS

**Construction**

**Wellpoint**

**Sock Dewatering**

**Remediation**

**Recharge**

**Multiple  
Fluid Transfer  
Capabilities**

The RotoFlo™ is a reliable rotary lobe, self-priming, valve-less positive-displacement pump that is made for construction dewatering. Whether you are using a wellpoint or sock system, the highly-efficient air/water handling capabilities utilizes less fuel while providing less hassles. Additionally, the pump's simple design eliminates the need for complicated vacuum priming, floats and air/water separation systems which are known to be unreliable.

Downtime is substantially reduced thanks to the maintenance-on-site design. Each pump comes equipped with a quick-release cover that can be removed with conventional hand tools to provide easy access to the inner parts without having to remove any critical components. Its 100% bolt-together design adds flexibility to your operations by allowing multiple units to be easily combined for maximum output. With inexpensive spare parts, low maintenance, and rugged components, this pump costs less than comparable pump systems and can be set up and running in a fraction of the time.

### FEATURES

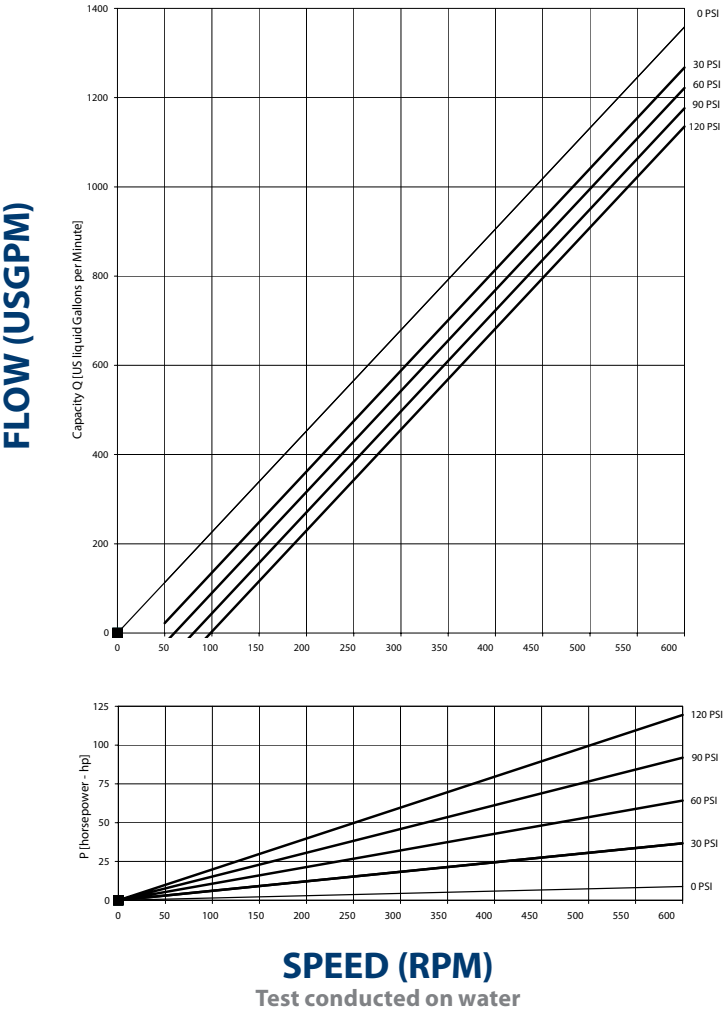
- High performance (1365 GPM and 268' TDH)
- Integral 94 gallon fuel tank, gauge and lockable fuel cap
- Rotary lobes, wear plates and seals are easily replaceable on site
- Dry running mechanical seals
- Fuel efficient
- Silent enclosures available (67dBA at 7M / 23') for residential areas
- Pumps slurries and brackish water
- Pulsation free design
- Skid or trailer available with easy vice-versa conversion
- Choice of diesel engines, electric motors, or hydraulically driven
- Positive displacement tri-lobe spiral rotor
- Manufactured in the USA

### QUICK SPECIFICATIONS

Suction connection	8" 150# ANSI B16.5
Delivery connection	8" 150# ANSI B16.5
Max capacity	1365 GPM
Max solids handling	2.95
Max head (TDH)	268'
Max operating speed	600 RPM
Dimensions	51.25 x 108 x 73.5"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	24 hr run time



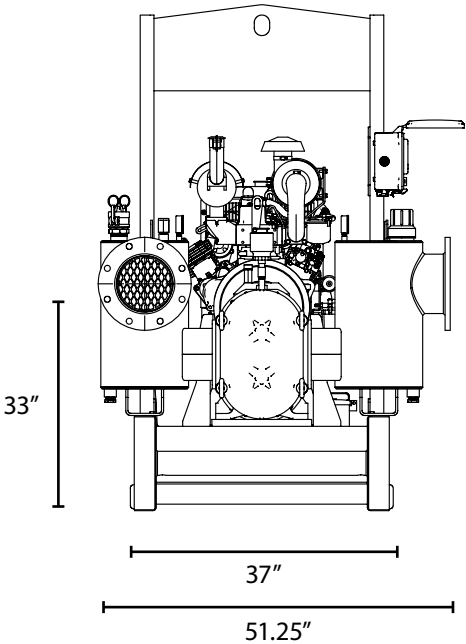
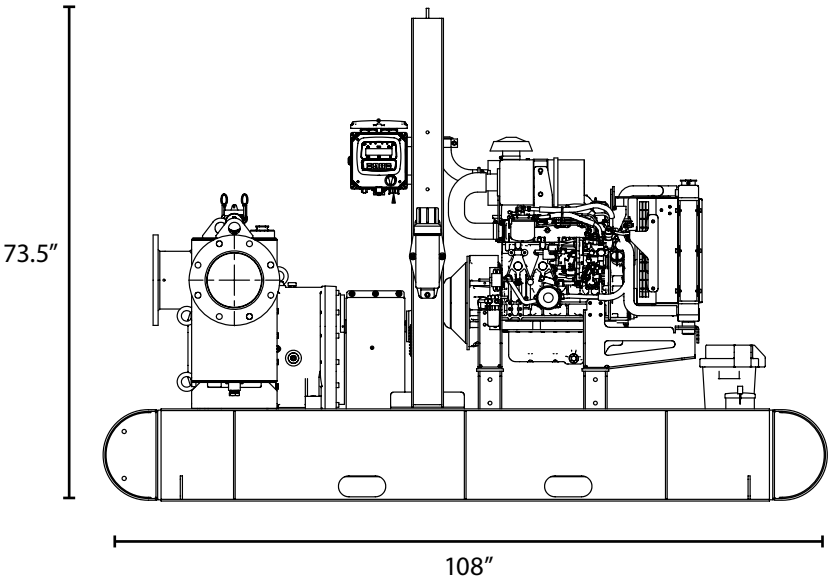
PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS

Engine	Choice of diesel, electric, or hydraulically driven motor
Pump casing	Single piece construction from cast iron lined with protection plates from stainless steel. Other materials of construction available.
Rotary lobes	Low pulsation screw rotor design. Entirely Buna-N elastomer coated. Other elastomer materials available.
Wear liner	Stainless steel
Shafts	Non-fluid-wetted from AIS 4140
Discharge	8" Flapper check valve
Mechanical seal	Oil bath, dry running seal, with abrasion resistant silicon carbide faces
Accessories	Swing-joints, header pipe, wellpoints and jetting equipment
Control panel with safety shutdowns	Diesel engine panel: Tach and hour meter, including shutdowns for: low oil pressure, high coolant temperature and overspeed. / Electric Panel: Full or reduced starter. Variable frequency drive (VFD) optional.
Fuel capacity	94 Gal
Weight of trailer mounted unit	3400 lbs (dry)

DIMENSIONS





# ROTOFLO™ RWP010

## 10" WELLPOINT DEWATERING WATER PUMP

### APPLICATIONS

**Construction**

**Wellpoint**

**Sock Dewatering**

**Remediation**

**Recharge**

**Multiple  
Fluid Transfer  
Capabilities**

The Rotoflo™ is a reliable rotary lobe, self-priming, valve-less positive-displacement pump that is made for construction dewatering. Whether you are using a wellpoint or sock system, the highly-efficient air/water handling capabilities utilizes less fuel while providing less hassles. Additionally, the pump's simple design eliminates the need for complicated vacuum priming, floats and air/water separation systems which are known to be unreliable.

Downtime is substantially reduced thanks to the maintenance-on-site design. Each pump comes equipped with a quick-release cover that can be removed with conventional hand tools to provide easy access to the inner parts without having to remove any critical components. Its 100% bolt-together design adds flexibility to your operations by allowing multiple units to be easily combined for maximum output. With inexpensive spare parts, low maintenance, and rugged components, this pump costs less than comparable pump systems and can be set up and running in a fraction of the time.

### FEATURES

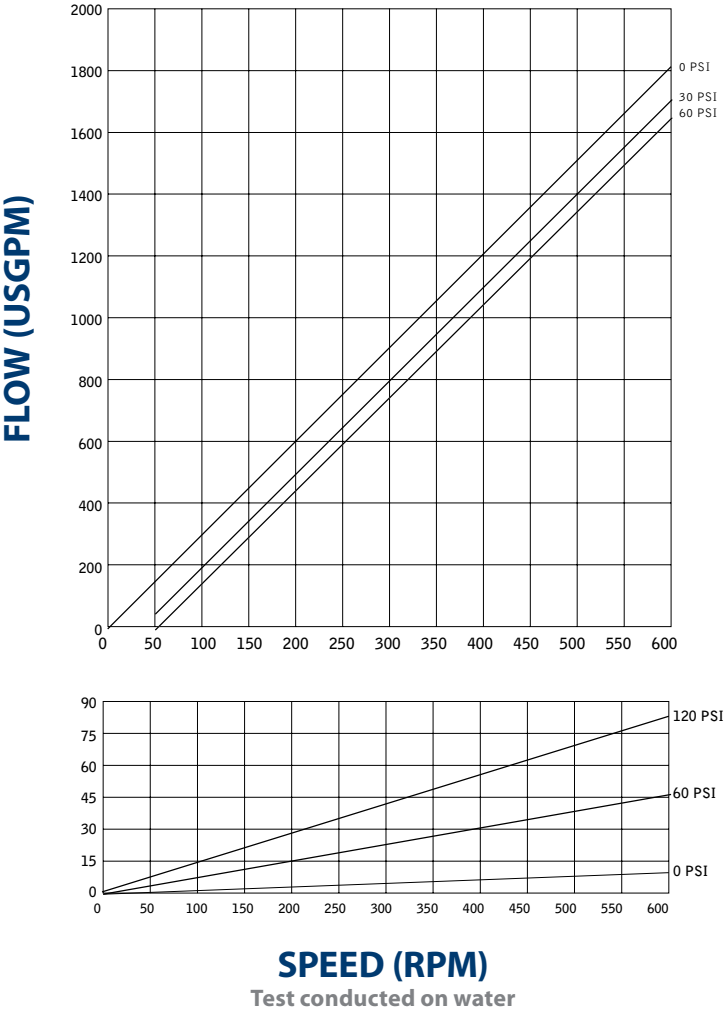
- High performance (1805 GPM and 138' TDH)
- Dry running mechanical seals
- Pumps slurries and brackish water
- Choice of diesel engines, electric motors, or hydraulically driven
- Integral 94 gallon fuel tank, gauge and lockable fuel cap
- Fuel efficient
- Pulsation free design
- Skid or trailer available with easy vice-versa conversion
- Positive displacement tri-lobe spiral rotor
- Rotary lobes, wear plates and seals are easily replaceable on site
- Silent enclosures available (67dBA at 7M/ 23') for residential areas
- Manufactured in the USA

### QUICK SPECIFICATIONS

Suction connection	10" 150# ANSI B16.5
Delivery connection	10" 150# ANSI B16.5
Max capacity	1805 GPM
Max solids handling	2.95
Max head (TDH)	138'
Max operating speed	600 RPM
Dimensions	75 x 108 x 84"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	24 hr run time

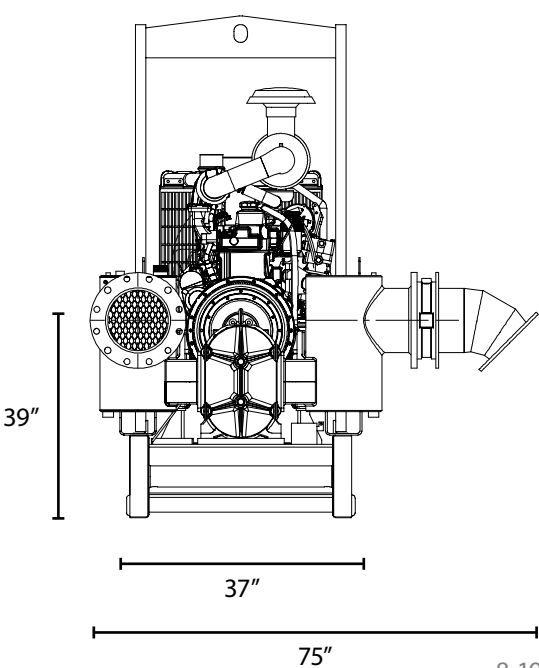
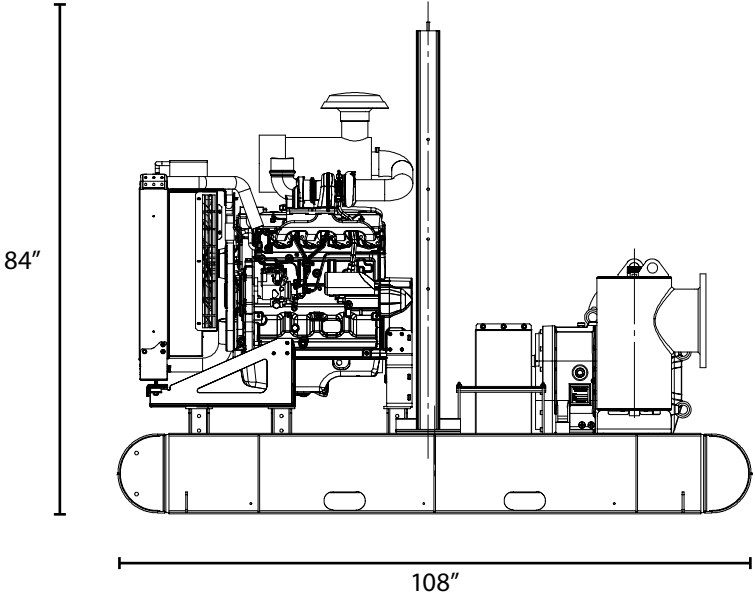


PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS	
Engine	Choice of diesel, electric, or hydraulically driven motor
Pump casing	Single piece construction from cast iron lined with protection plates from stainless steel. Other materials of construction available.
Rotary lobes	Low pulsation screw rotor design. Entirely Buna-N elastomer coated. Other elastomer materials available.
Wear liner	Stainless steel
Shafts	Non-fluid-wetted from AIS 4140
Discharge	10" Flapper check valve
Mechanical seal	Oil bath, dry running seal, with abrasion resistant silicon carbide faces.
Accessories	Swing-joints, header pipe, wellpoints and jetting equipment
Control panel with safety shutdowns	Full or reduced starter. Including tach, hour meter, high coolant temperature and low oil pressure shutdowns plus over speed protection
Fuel capacity	94 Gal
Weight of trailer mounted unit	4500 lbs (dry)

DIMENSIONS



# DOUBLE DIAPHRAGM

## MOBILE WELLPOINT TRASH PUMP

### APPLICATIONS

**Slurries**

**Dredging**

**Portable Feed**

**Open Sump**

**Sewage**

**Wellpoint Dewatering**

**Tanker Unloading**

**Waste Transfer**

**Utility Plants**

MWI's Double Diaphragm pump has a rugged design, strong enough to get through the toughest materials - including solids as large as 3.75". Its portable, flexible, lightweight and easy to set up design makes it favorable for many operations. The Double Diaphragm pump is an ideal choice for pumping muddy water, sludge, or any liquid with a high percentage of solids. Even the most challenging environments are no match for MWI's Double Diaphragm.

### FEATURES

- Simple yet rugged, trouble free design
- Boston gearbox with a 1.25 Service Factor and high grade synthetic oil provides long service life
- Flex coupling allows for maintenance of engine and gearbox without requiring full disassembly
- Five easy cleanout ports allow for effortless cleaning after use
- Flapper valves allow for handling of 3.75" solids, slurries and other hard-to-handle fluids.
- Easily serviced and replaced wear parts that are highly resistant to abrasive and corrosive liquids
- Manufactured in the USA

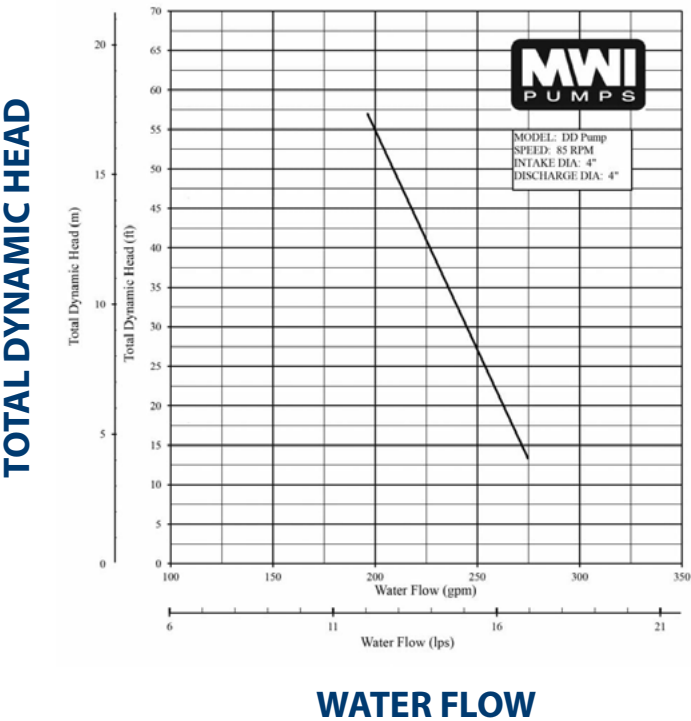
### QUICK SPECIFICATIONS

Suction connection	4" CAM-LOCK
Delivery connection	4" CAM-LOCK
Max capacity	275 USGPM
Max solids handling	3.75"
Max head (TDH)	55'
Max operating speed	85 RPM
Max suction lift	25'
Dimensions	102 x 63 x 58"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	Up to 50 hr run time

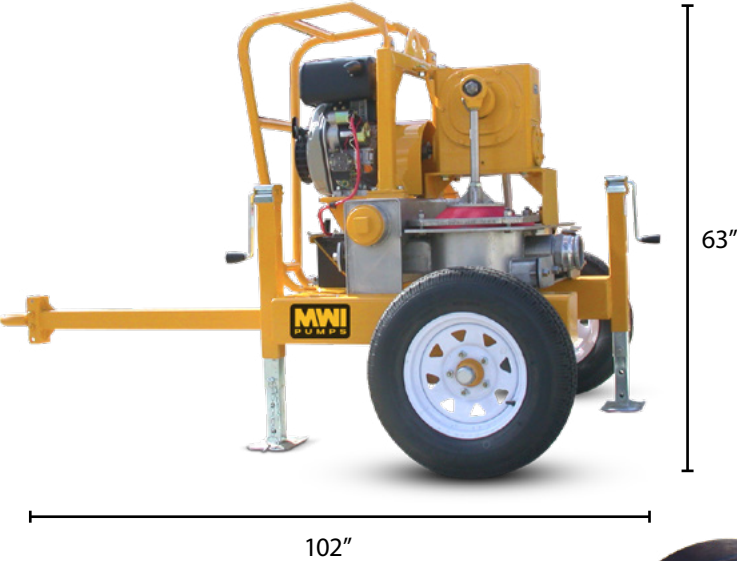




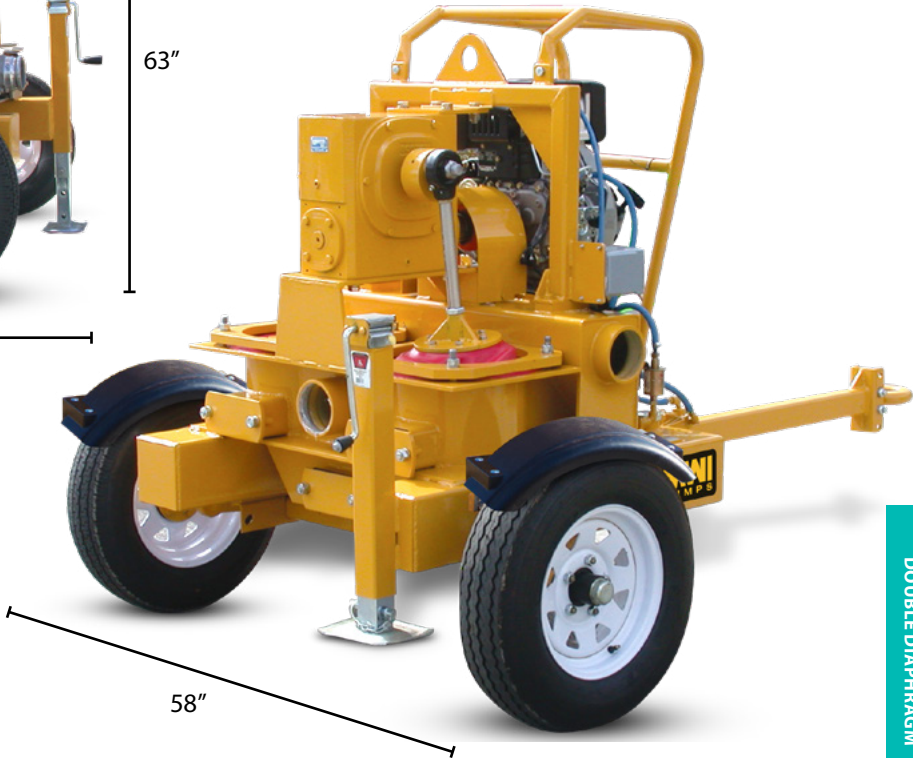
PERFORMANCE CURVE



MATERIALS & SPECIFICATIONS	
Standard engine	Yanmar L100W Final Tier 4
Max HP	9 HP
Fuel capacity	25 Gal
Gear box	Worm gear oil lubricated
Coupling	Omega flexible coupling
Diaphragm options	Urethane or neoprene
Control panel	Hour meter, including shutdowns for low oil pressure
Weight of trailer mounted unit	1550 lbs (dry)



DIMENSIONS



DOUBLE DIAPHRAGM



# DURAFLO™ SERIES

## 4-12” HYDRAULIC SUBMERSIBLE TRASH PUMPS WITH DIESEL OR ELECTRIC DRIVE UNITS

The MWI **Duraflo™ hydraulic submersible trash pump series** coupled with their diesel or electric drive units are an unbeatable combination for drying out construction excavations, quarry dewatering, sewage bypass, general municipal use and industrial work. With capacities up to X GPM, solid handling up to 3.125” and a max head (TDH) of up to Y’ these units are designed and manufactured for the toughest environments with the best combination of ruggedness, reliability, performance, operational costs and initial price. These pumps never quit – positively affecting your success and bottom line.



SPECIFICATIONS	HTC004	HTC006	HTC008	HTC010	HTC012
Delivery connection	4” Male NPT	6” Male NPT	8” ANSI Pattern Flange	10” ANSI Pattern Flange	12” ANSI Pattern Flange
Max capacity	1400 GPM	2000 GPM	4000 GPM	4000 GPM	7200 GPM
Max solids handling	3”	3”	3.125”	3.125”	3.125”
Max impeller diameter	10.6”	10.8”	12.2”	12.2”	16.75”
Max head (TDH)	115’	115’	120’	132’	130’
Max hydraulic system pressure	2700 PSI	2700 PSI	2700 PSI	2700 PSI	2700 PSI
Dimensions	Unit: 17 x 42” / Drive: 74.5 x 37 x 93”	Unit: 22.5 x 46” / Drive: 37 x 77 x 108”	Unit: 29 x 55” / Drive: 37 x 77 x 108”	Unit: 29 x 55” / Drive: 37 x 77 x 108”	Unit: 39 x 81” / Drive: 48 x 79 x 125.5”
Sound levels w/ enclosure	67 dBA at 7M / 23’	67 dBA at 7M / 23’	67 dBA at 7M	67 dBA at 7M / 23’	67 dBA at 7M / 23’
Max fuel consumption	2.8 gal/hr at 47 HP; 28 hr run time	4.2 gal/hr at 75 HP; 22.5 hr run time	5.9 gal/hr @ 99 HP; 15.9 hr run time	5.9 gal/hr at 99 HP; 15.9 hr run time	8.3 gal/hr at 156 HP; 22.3 hr run time
Sound levels w/ enclosure	67 dBA at 7M / 23’	67 dBA at 7M / 23’	67 dBA at 7M / 23’	67 dBA at 7M / 23’	67 dBA at 7M / 23’
Max fuel consumption	(1) At 11 HP; up to 3 days	At 47 HP; up to 24 hr run time	At 67 HP; up to 20 hr run time	At 75 HP; up to 24 hr run time	At 75 HP; up to 24 hr run time



# DURAFLO™ HTC004

## HYDRAULIC SUBMERSIBLE TRASH PUMP AND 800D DRIVE UNIT

### APPLICATIONS

**Flood Control**

**Industrial**

**Bypass Pumping**

**Stormwater  
Drainage**

**Construction  
Dewatering**

**Agriculture**

**Aquaculture**

**Quarries**

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, sewage bypass, 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. These pumps never quit – positively affecting your success and bottom line.

### FEATURES

#### Duraflo™ - HTC004

- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3" solids
- Runs dry indefinitely with oil lubricated seals and bearings
- Reliable, rugged vane hydraulic motor
- Lifting point
- Weldable and shock proof cast steel volute
- Manufactured in the USA

#### 800D Diesel Engine Drive Unit

- Skid mounted unit standard
- Trailer mounted unit available with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- 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 - inherently biodegradable hydraulic fluid
- Auto start/stop panel available with floats
- Manufactured in the USA

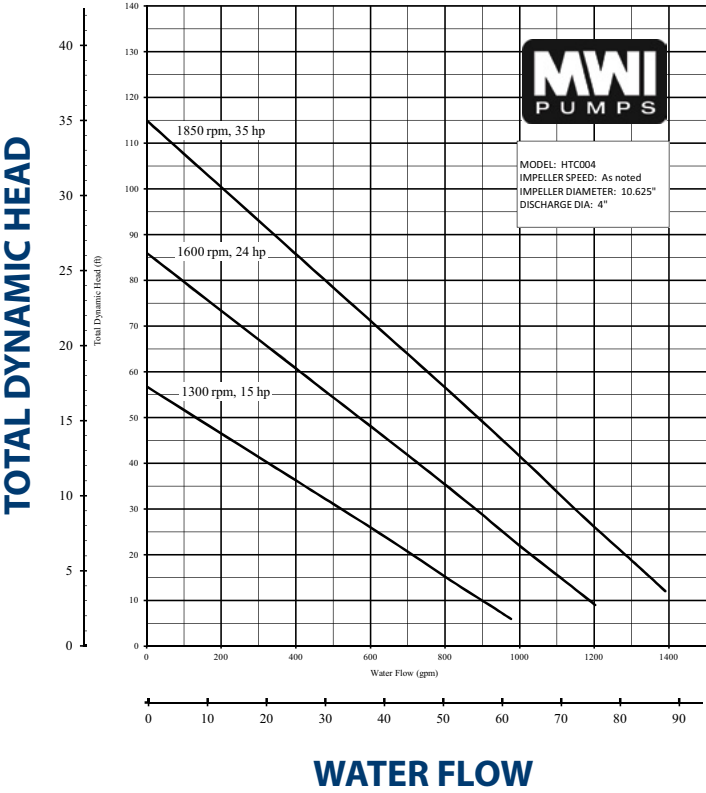
### QUICK SPECIFICATIONS

Delivery connection	4" Male NPT
Max capacity	1400 GPM
Max solids handling	3"
Max impeller diameter	10.6"
Max head (TDH)	115'
Max hydraulic system pressure	2700 PSI
Dimensions	Unit: 17 x 42" / Drive: 74.5 x 37 x 93"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	2.8 gal/hr at 47 HP; 28 hr run time

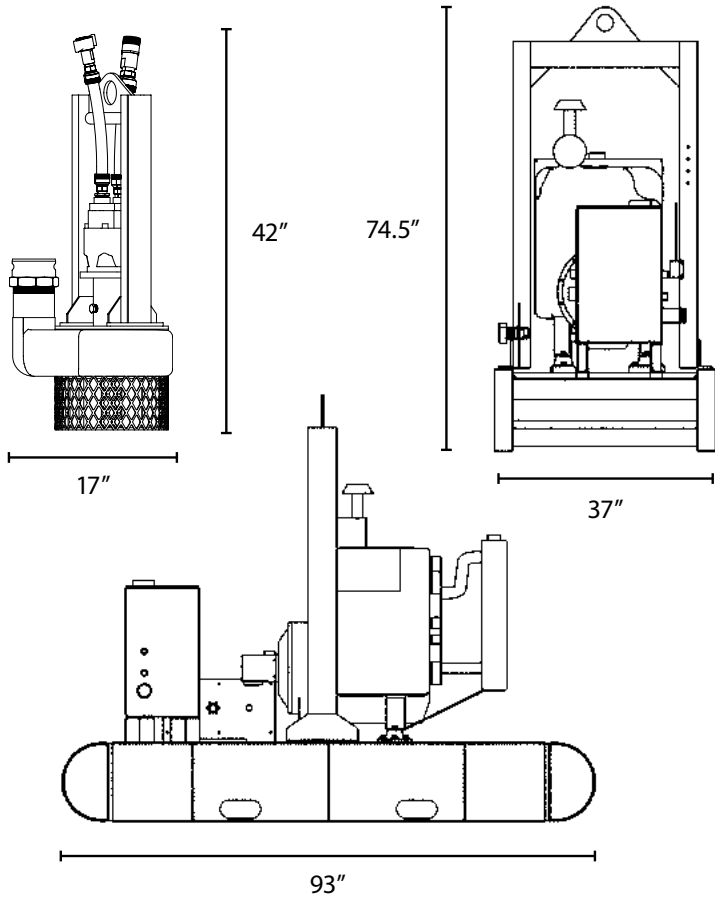




# PERFORMANCE CURVE



# DIMENSIONS



## MATERIALS & SPECIFICATIONS

### DURA FLO™ HTC004

Hydraulic motor	Vane type
Impeller	3 Bladed open - A36 Steel
Shaft material	300 Series stainless steel
Volute	High strength, cast steel- nautilus design
Delivery connection	4" Male NPT
Hose ports	1" Return, .75" Supply
Bearings	Grease lubricated - 50,000 hrs minimum life
Weight	175 lbs
Coating	Epoxy

### 800D DRIVE UNIT

Engine	800 Diesel engine
Engine power	47 HP
Control panel with safety shutdowns	Including tach, hour meter, high coolant temperature and high/low oil pressure/temperature, excessive vacuum shutdowns plus over speed protection
Fuel tank	78 Gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	10 Gallon hydraulic
Equipped standard	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic oil	AW 68
Weight	2800 lbs (skid)

# DURAFLO™ HTC006

## HYDRAULIC SUBMERSIBLE TRASH PUMP AND 1200D DRIVE UNIT

### APPLICATIONS

**Flood Control**

**Industrial**

**Bypass Pumping**

**Stormwater  
Drainage**

**Construction  
Dewatering**

**Agriculture**

**Aquaculture**

**Quarries**

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, sewage bypass, 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. These pumps never quit – positively affecting your success and bottom line.

### FEATURES

#### Duraflo™ - HTC006

- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3" solids
- Runs dry indefinitely with oil lubricated seals and bearings
- Reliable, rugged vane hydraulic motor
- Lifting point
- Weldable and shock proof cast steel volute
- Manufactured in the USA

#### 1200D Diesel Engine Drive Unit

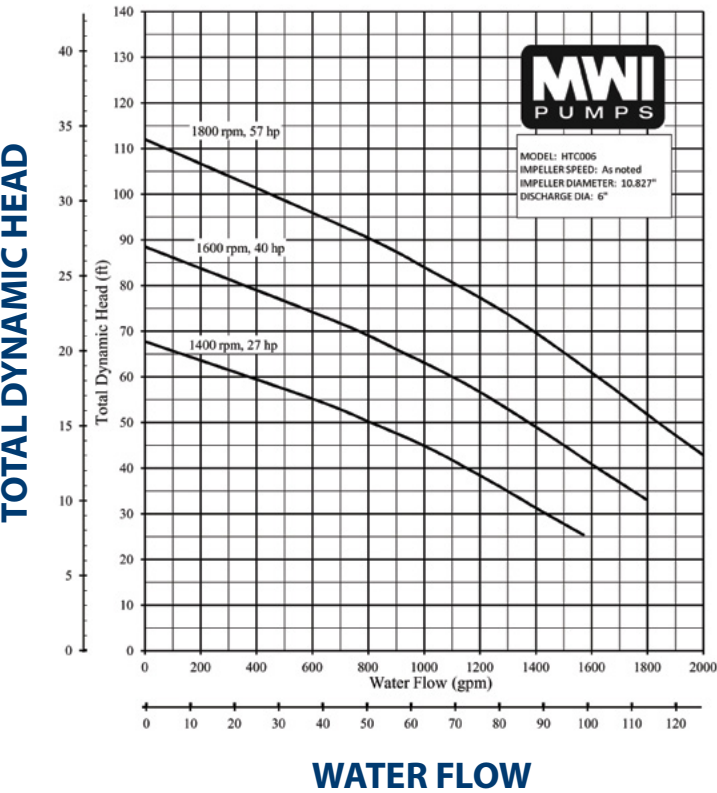
- Skid mounted unit standard
- Trailer mounted unit available with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- Complete hydraulic system with control panel, pump, filters, tank and gauges
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient vane hydraulic pump
- Environmentally friendly - inherently biodegradable hydraulic fluid
- Auto start/stop panel available with floats
- Manufactured in the USA

### QUICK SPECIFICATIONS

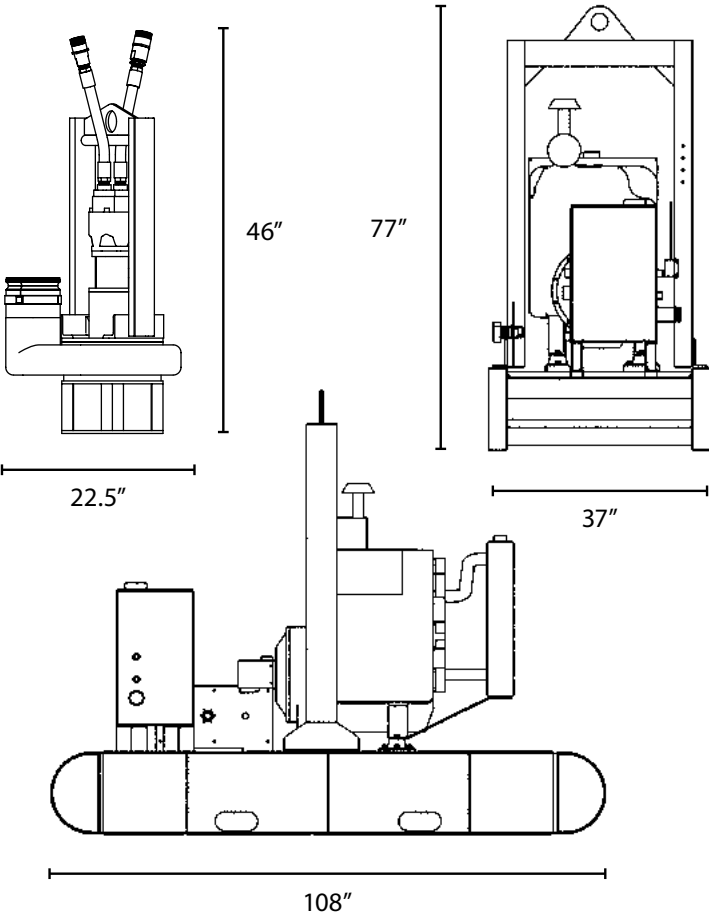
Delivery connection	6" Male NPT
Max capacity	2000 GPM
Max solids handling	3"
Max impeller diameter	10.8"
Max head (TDH)	115'
Max hydraulic system pressure	2700 PSI
Dimensions	Unit: 22.5 x 46" / Drive: 37 x 77 x 108"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	4.2 gal/hr at 75 HP; 22.5 hr run time



# PERFORMANCE CURVE



# DIMENSIONS



## MATERIALS & SPECIFICATIONS

### DURA FLO™ HTC006

Hydraulic motor	Vane type
Impeller	Cast stainless (CA40)
Shaft material	300 Series stainless steel
Volute	High strength, cast steel- nautilus design
Delivery connection	6" Male NPT
Hose ports	1.25" Return, 1" Supply
Bearings	Grease lubricated - 50,000 hrs minimum life
Weight	315 lbs
Coating	Epoxy

### 1200D DRIVE UNIT

Engine	JD 4045 (FT4)
Engine power	75 HP
Control panel with safety shutdowns	Including tach, hour meter, high coolant temperature and high/low oil pressure/temperature, excessive vacuum shutdowns plus over speed protection
Fuel tank	94 Gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	10 Gallon hydraulic
Equipped standard	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic oil	AW 68
Weight	3600 lbs (skid)



# DURAFLO™ HTC008

## HYDRAULIC SUBMERSIBLE TRASH PUMP AND 2000D DRIVE UNIT

### APPLICATIONS

**Flood Control**

**Industrial**

**Bypass Pumping**

**Stormwater  
Drainage**

**Construction  
Dewatering**

**Agriculture**

**Aquaculture**

**Quarries**

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, sewage bypass, 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. These pumps never quit – positively affecting your success and bottom line.

### FEATURES

#### Duraflo™ - HTC008

- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3.125" solids
- Runs dry indefinitely with oil lubricated seals and bearings
- Reliable, rugged vane hydraulic motor
- Lifting point
- Weldable and shock proof cast steel volute
- Manufactured in the USA

#### 2000D Diesel Engine Drive Unit

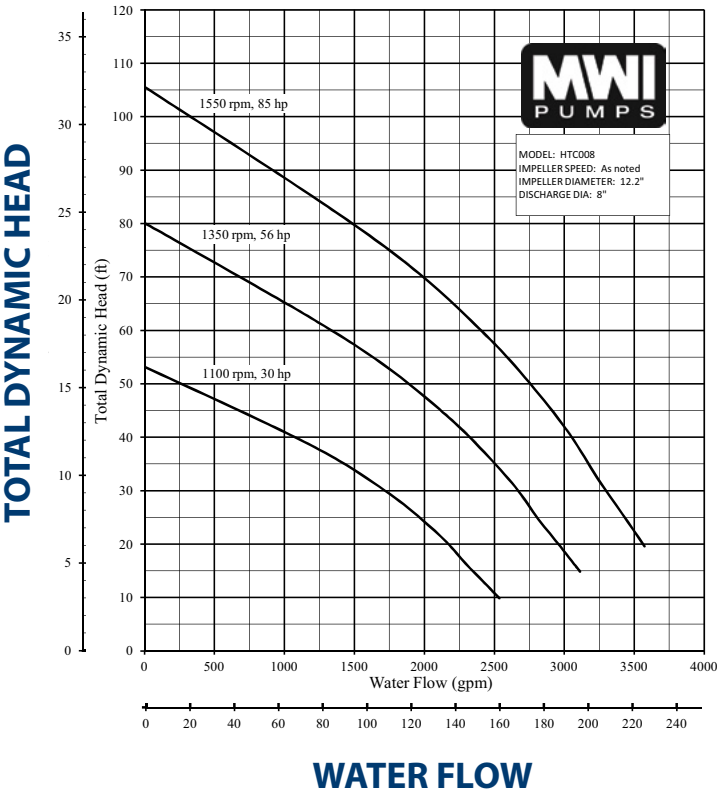
- Skid mounted unit standard
- Trailer mounted unit available with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- Complete hydraulic system with control panel, pump, filters, tank and gauges
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient vane hydraulic pump
- Environmentally friendly - inherently biodegradable hydraulic fluid
- Auto start/stop panel available with floats
- Manufactured in the USA

### QUICK SPECIFICATIONS

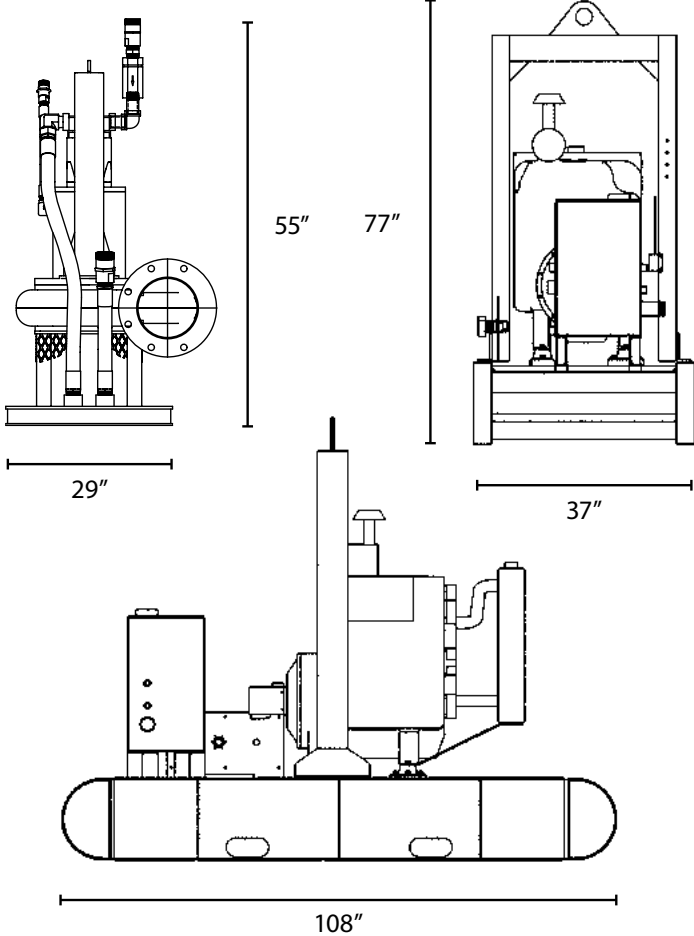
Delivery connection	8" ANSI Pattern Flange
Max capacity	4000 GPM
Max solids handling	3.125"
Max impeller diameter	12.2"
Max head (TDH)	120'
Max hydraulic system pressure	2700 PSI
Dimensions	Unit: 29 x 55" / Drive: 37 x 77 x 108"
Sound levels w/ enclosure	67 dBA at 7M
Max fuel consumption	5.9 gal/hr @ 99 HP; 15.9 hr run time



# PERFORMANCE CURVE



# DIMENSIONS



## MATERIALS & SPECIFICATIONS

### DURAFLO™ HTC008

Hydraulic motor	Vane type
Impeller	Cast stainless (CA40)
Shaft material	300 Series stainless steel
Volute	High strength, cast steel- nautilus design
Wear plates	A36 steel - upper and lower
Delivery connection	8" ANSI Pattern Flange
Hose ports	1.25" Supply, 1.5" return, .75" case drain
Mechanical seal	Silicone carbide - hydraulic-fluid bathed
Bearings	Hydraulic-fluid lubricated - 50,000 hours minimum life
Weight	670 lbs
Coating	Epoxy

### 2000D DRIVE UNIT

Engine	John Deere 4045HF280
Engine power	99 HP
Control panel with safety shutdowns	Including tach, hour meter, high coolant temperature and high/low oil pressure/temperature, excessive vacuum shutdowns plus over speed protection
Fuel tank	94 Gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	15 Gallon hydraulic
Equipped standard	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic oil	AW 68
Weight	3800 lbs (skid)

# DURAFLO™ HTC010

## HYDRAULIC SUBMERSIBLE TRASH PUMP AND 2000D DRIVE UNIT

### APPLICATIONS

**Flood Control**

**Industrial**

**Bypass Pumping**

**Stormwater  
Drainage**

**Construction  
Dewatering**

**Agriculture**

**Aquaculture**

**Quarries**

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, sewage bypass, 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. These pumps never quit – positively affecting your success and bottom line.

### FEATURES

#### Duraflo™ - HTC010

- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3.125" solids
- Runs dry indefinitely with oil lubricated seals and bearings
- Reliable, rugged vane hydraulic motor
- Lifting point
- Weldable and shock proof cast steel volute
- Manufactured in the USA

#### 2000D Diesel Engine Drive Unit

- Skid mounted unit standard
- Trailer mounted unit available with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- 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 - inherently biodegradable hydraulic fluid
- Auto start/stop panel available with floats
- Manufactured in the USA

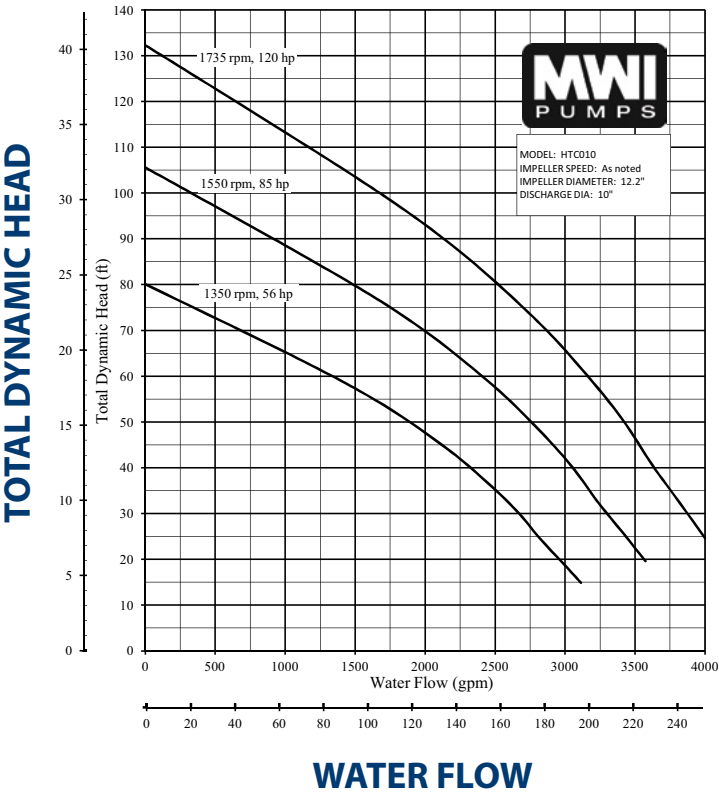
### QUICK SPECIFICATIONS

Delivery connection	10" ANSI Pattern Flange
Max capacity	4000 GPM
Max solids handling	3.125"
Max impeller diameter	12.2"
Max head (TDH)	132'
Max hydraulic system pressure	2700 PSI
Dimensions	Unit: 29 x 55" / Drive: 37 x 77 x 108"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	5.9 gal/hr at 99 HP; 15.9 hr run time

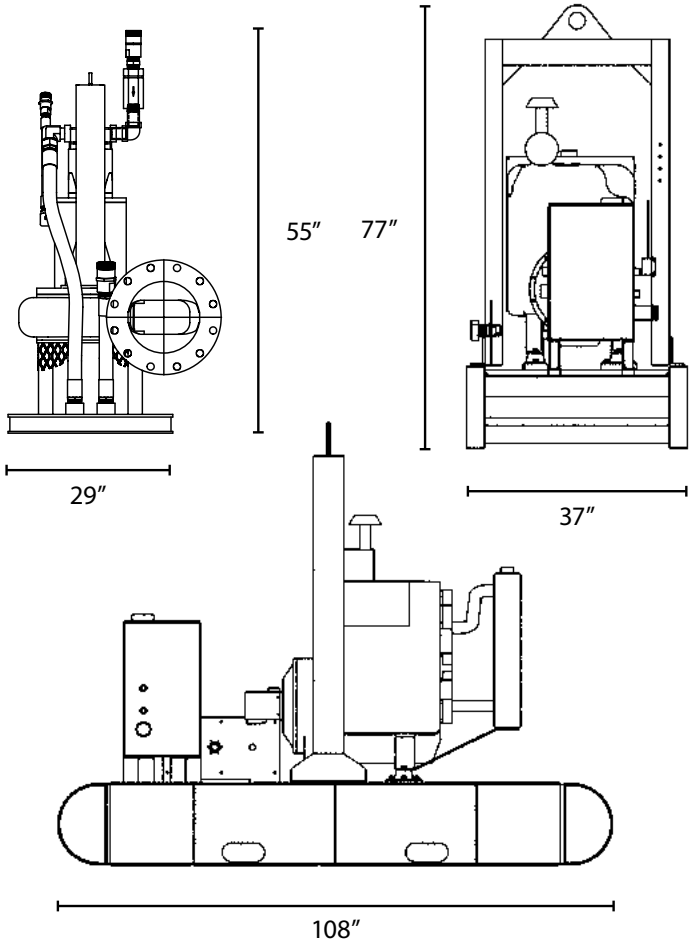




# PERFORMANCE CURVE



# DIMENSIONS



## MATERIALS & SPECIFICATIONS

### DURAFLO™ HTC010

Hydraulic motor	Vane type
Impeller	Cast stainless (CA40)
Shaft material	300 Series stainless steel
Volute	High strength, cast steel-nautilus design
Wear plates	A36 Steel - upper and lower
Delivery connection	10" ANSI Pattern Flange
Hose ports	1.25" Supply, 1.5" return, .75" case drain
Mechanical seal	Silicone carbide - hydraulic-fluid bathed
Bearings	Hydraulic-fluid lubricated - 50,000 hrs minimum life
Weight	680 lbs
Coating	Epoxy

### 2000D DRIVE UNIT

Engine	John Deere 4045HF280
Engine power	99 HP
Control panel with safety shutdowns	Including tach, hour meter, high coolant temperature and high/low oil pressure/temperature, excessive vacuum shutdowns plus over speed protection
Fuel tank	94 gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	15 Gallon hydraulic
Equipped standard	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic oil	AW 68
Weight	3800 lbs (skid)

# DURAFLO™ HTC012

## HYDRAULIC SUBMERSIBLE TRASH PUMP AND 2400D DRIVE UNIT

### APPLICATIONS

**Flood Control**

**Industrial**

**Bypass Pumping**

**Stormwater  
Drainage**

**Construction  
Dewatering**

**Agriculture**

**Aquaculture**

**Quarries**

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, sewage bypass, 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. These pumps never quit – positively affecting your success and bottom line.

### FEATURES

#### Duraflo™ - HTC012

- Open 3 bladed impeller for handling trash and sewage
- Easily passes 3.125" solids
- Runs dry indefinitely with oil lubricated seals and bearings
- Reliable, rugged vane hydraulic motor
- Lifting point
- Weldable and shock proof cast steel volute
- Manufactured in the USA

#### 2400D Diesel Engine Drive Unit

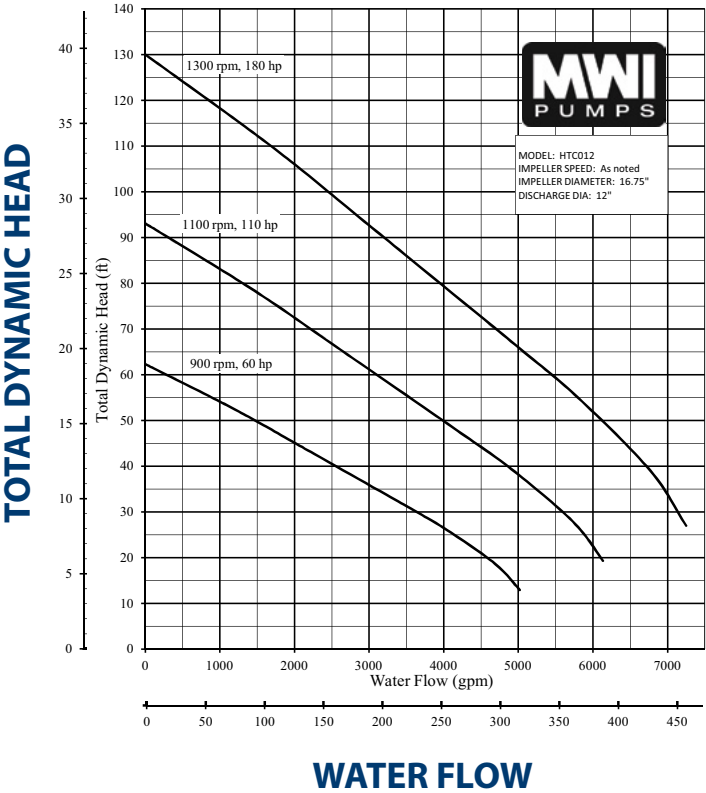
- Skid mounted unit standard
- Trailer mounted unit available with optional fenders, DOT light kit and braking system
- Engine and hydraulic safety shutdowns
- Complete hydraulic system with control panel, pump, filters, tank and gauges
- Small hydraulic tank reduces fluid replacement costs
- Reliable, efficient vane hydraulic pump
- Environmentally friendly - inherently biodegradable hydraulic fluid
- Auto start/stop panel available with floats
- Manufactured in the USA

### QUICK SPECIFICATIONS

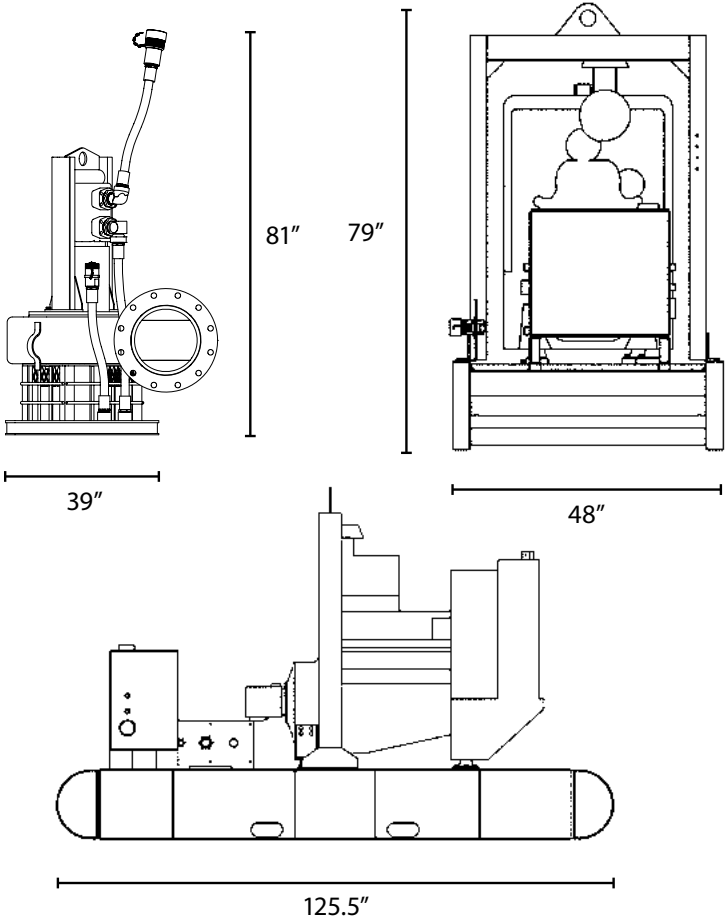
Delivery connection	12" ANSI Pattern Flange
Max capacity	7200 GPM
Max solids handling	3.125"
Max impeller diameter	16.75"
Max head (TDH)	130'
Max hydraulic system pressure	2700 PSI
Dimensions	Unit: 39 x 81" / Drive: 48 x 79 x 125.5"
Sound levels w/ enclosure	67 dBA at 7M / 23'
Max fuel consumption	8.3 gal/hr at 156 HP; 22.3 hr run time



# PERFORMANCE CURVE



# DIMENSIONS



## MATERIALS & SPECIFICATIONS

### DURAFLO™ HTC012

Hydraulic motor	Vane type
Impeller	3 Bladed open - A36 steel
Shaft material	300 Series stainless steel
Volute	High strength, cast steel-nautilus design
Wear plates	A36 Steel - upper and lower
Delivery connection	12" ANSI Pattern Flange
Hose ports	1.5" Supply, 1.5" return, .75" case drain
Mechanical seal	Silicone carbide - hydraulic-fluid bathed
Bearings	Hydraulic-fluid lubricated - 50,000 hrs minimum life
Weight	1230 lbs
Coating	Epoxy

### 2000D DRIVE UNIT

Engine	John Deere 6068HF285
Engine power	156 HP
Control panel with safety shutdowns	Including tach, hour meter, high coolant temperature and high/low oil pressure/temperature, excessive vacuum shutdowns plus over speed protection
Fuel tank	187 Gallon vented fuel tank with extra large filler and fuel gauge
Fluid tank	22 Gallon hydraulic
Equipped standard	Internal suction strainer, return filter, external sight gauge for hydraulic oil and vented hydraulic oil filler cap
Hydraulic oil	AW 68
Weight	4900 lbs (skid)



## “ FEEDBACK

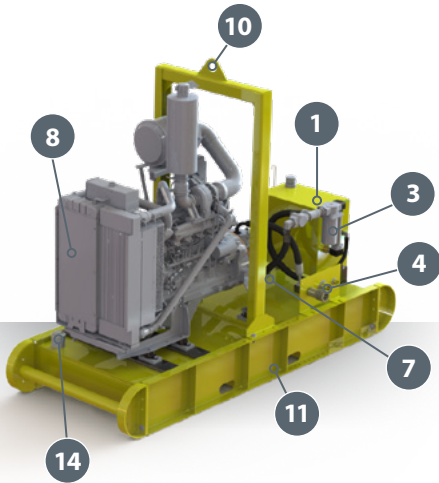
After Hurricane Irma, a customer's farm was flooded and their old pump was damaged. MWI emergency service and support team quickly came to the customer's aid by providing a temporary pumping solution to get the farm back on dry ground and operational. When the customer was ready to buy a replacement, they went to MWI Pumps.





# SKID DIESEL DRIVE UNIT

POWERING HYDRAFLO™ & DURAFLO™



## GENERAL INFORMATION

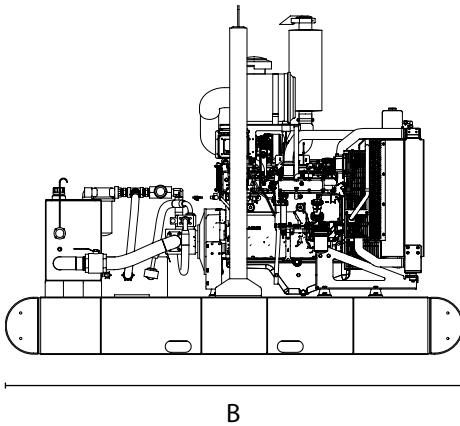
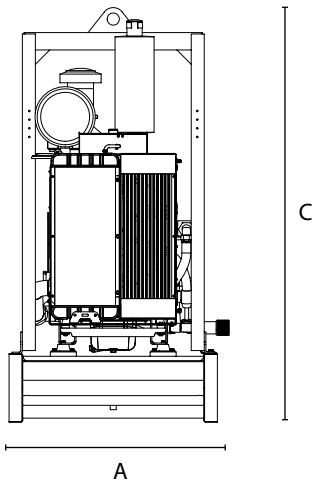
Drive Model Number	Water Pump	Hydraulic Reservoir		Day Tank		Hose Connection (in.)			Diesel Engine (BHP Range) HP @ 1800 RPM
		Gals.	Ltrs.	Gals.	Ltrs.	Return	Supply	Case Drain	
800D	8"	10	38	78	295	1	0.75	0.75	≤ 35
1200D	12-16"	10	38	94	356	1.25	1	0.75	36-70
2000D	20"	15	57	94	356	1.5	1.25	0.75	71-100
2400D	24"	22	83	187	708	1.5	1.5	0.75	101-225

## STANDARD FEATURES

- Oil reservoir/heat exchanger
- Hydraulic oil level switch gauge
- Return filter
- Quick couplers
- Relief valve (not shown)
- Suction strainer (below)
- Hydraulic pump
- Diesel engine
- Engine controls
- Lifting eyes (small frames only)
- Heavy duty skid frame
- Battery
- Control Panel
  - Suction strainer vacuum gauge
  - Hydraulic system pressure gauge
  - Oil temperature gauge
  - Failure reset
  - System loading valve
- Day tank

Items not shown: 2, 5, 6, 9, 12, 13

## DIMENSIONS



## PHYSICAL DATA

Drive Model Number	General Dimensions							
	A		B		C		Dry Weight (Approx.)	
	Ft.	Mts.	Ft.	Mts.	Ft.	Mts.	lbs.	kg.
800D	3.08	0.94	7.75	2.36	5.44	1.66	2100	950
1200D	3.08	0.94	9.00	2.74	6.42	1.96	2500	1135
2000D	3.08	0.94	9.00	2.74	6.42	1.96	3100	1409
2400D	4.00	1.22	10.45	3.19	6.59	2.00	4300	1950

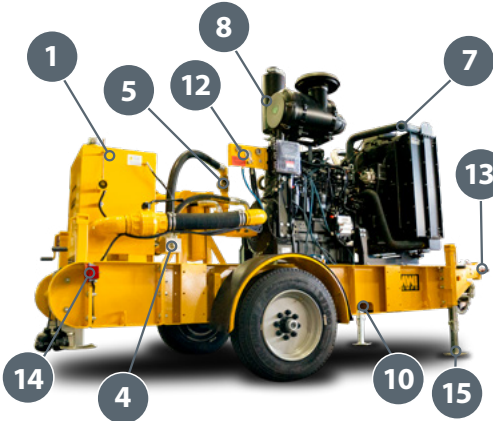
# PORTABLE DIESEL DRIVE UNIT

POWERING HYDRAFLO™ & DURAFLO™

GENERAL INFORMATION									
Drive Model Number	Water Pump	Hydraulic Reservoir		Day Tank		Hose Connection (in.)			Diesel Engine (BHP Range)
		Gals.	Ltrs.	Gals.	Ltrs.	Return	Supply	Case Drain	HP @ 1800 RPM
800	8"	10	38	78	295	1	0.75	0.75	≤ 35
1200	12-16"	10	38	94	356	1.25	1	0.75	36-70
2000	20"	15	57	94	356	1.5	1.25	0.75	76-100
2400	24"	22	83	187	708	1.5	1.5	0.75	101-200

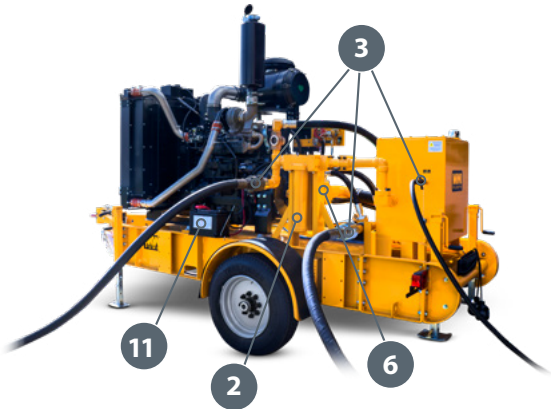
## STANDARD FEATURES

- 1. Oil reservoir/heat exchanger
- 2. Return filter
- 3. Quick couplers
- 4. Relief valve
- 5. Relief bypass sight indicator
- 6. Hydraulic pump
- 7. Diesel engine
- 8. Engine controls
- 9. Lifting eyes
- 10. Diesel reservoir



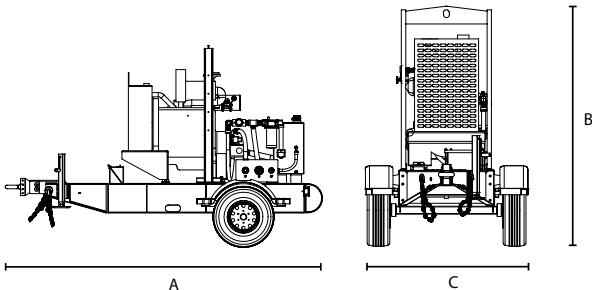
- 11. Battery
- 12. Hydraulic control panel
- 13. Hydraulic surge brake actuator
- 14. Tail lights
- 15. Tongue jack

Item not shown: 9



Physical Data								
Drive Model Number	General Dimensions							
	A		B		C		Dry Weight (Approx.)	
	Ft.	Mts.	Ft.	Mts.	Ft.	Mts.	lbs	kg
800	11.00	3.35	7.71	2.35	5.58	1.70	2500	1135
1200	12.29	3.75	7.71	2.35	5.58	1.70	2900	1315
2000	12.29	3.75	7.71	2.35	5.58	1.70	3500	1590
2400	14.58	4.45	8.04	2.45	6.56	2.00	4800	2180

## DIMENSIONS

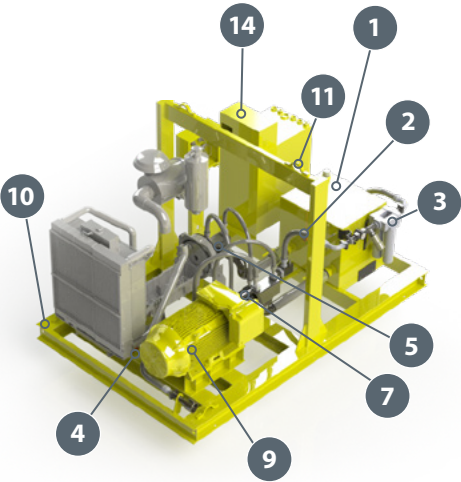


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# DIESEL ELECTRIC DRIVE UNIT

POWERING HYDRAFLO™ & DURAFLO™

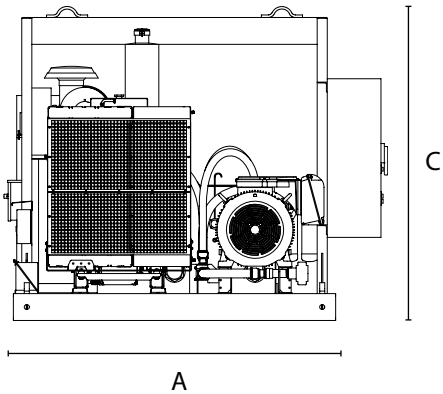


GENERAL INFORMATION									
Drive Model Number	Water Pump	Hydraulic Reservoir		Day Tank		Hose Connection (in.)			Diesel Engine (BHP Range)
		Gals.	Ltrs.	Gals.	Ltrs.	Return	Supply	Case Drain	
800	8"	15	57	50	189	1	0.75	0.75	≤ 35
1200	12-16"	15	57	50	189	1.25	1	0.75	36-70
2000	20"	23	85	50	189	1.5	1.25	0.75	71-100
2400	24"	33	125	50	189	1.5	1.5	0.75	101-200
3000	30-36"	90	341	50	189	2	2	0.75	201-350
4200	42-48"	338	1278	100	379	2-2	2-2	0.75	351-575

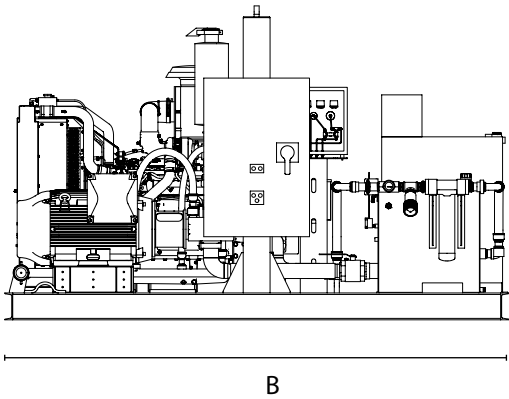
## STANDARD FEATURES

- Oil reservoir/heat exchanger
- Hydraulic oil level switch gauge
- Return filter
- Quick couplers
- Relief valve
- Suction strainer (not shown)
- Hydraulic pump
- Coupling
- Electric motor
- Heavy-duty skid frame
- Lifting eyes
- Control panel
  - Suction strainer vacuum gauge
  - Hydraulic system pressure gauge
  - Oil temperature gauge
  - Failure reset
  - System loading valve
- Electric motor starter panel (optional)
- Day tank

## DIMENSIONS

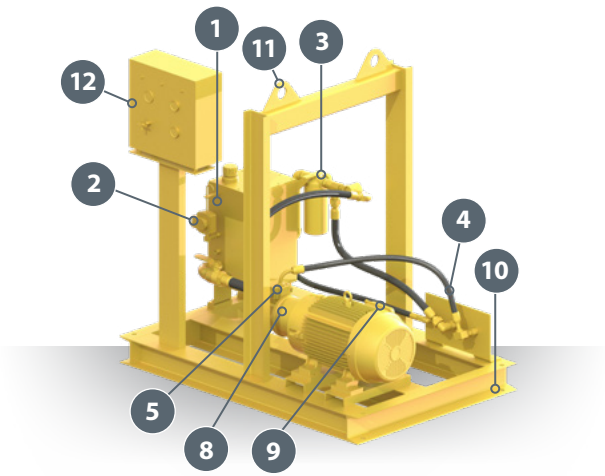


Physical Data								
Drive Model Number	General Dimensions							
	A		B		C		Dry Weight (Approx.)	
	Ft.	Mts.	Ft.	Mts.	Ft.	Mts.	lbs	kg
800/1200	6.00	1.83	10.00	3.05	7.17	2.18	3500	1585
2000/2400	7.25	2.21	11.50	3.51	7.17	2.18	5000	2270
3000	7.25	2.21	12.50	3.81	7.17	2.18	7000	3175
4200	8.00	2.44	15.00	4.57	8.25	2.51	12000	5445



# ELECTRIC DRIVE UNIT

## POWERING HYDRAFLO™ & DURAFLO™



GENERAL INFORMATION							
Drive Model Number	Water Pump	Hydraulic Reservoir		Hose Connection (in.)			Electric Motor (BHP Range)
		Gals.	Ltrs.	Return	Supply	Case Drain	HP @ 1800 RPM
800	8"	10	38	1	0.75	0.75	≤35
1200	12-16"	10	38	1.25	1	0.75	36-70
2000	20"	15	57	1.5	1.25	0.75	76-100
2400	24"	22	83	1.5	1.5	0.75	101-200
3000	30-42"	40	151	2	2	0.75	201-350

### STANDARD FEATURES

1. Oil reservoir/heat exchanger

2. Hydraulic oil level switch gauge

3. Return filter

4. Quick couplers

5. Relief valve

6. Suction strainer

7. Hydraulic pump

8. Coupling

9. Electric motor
10. Heavy-duty skid frame

11. Lifting eyes

12. Control panel

A. Suction strainer vacuum gauge

B. Hydraulic system pressure gauge

C. Oil temperature gauge

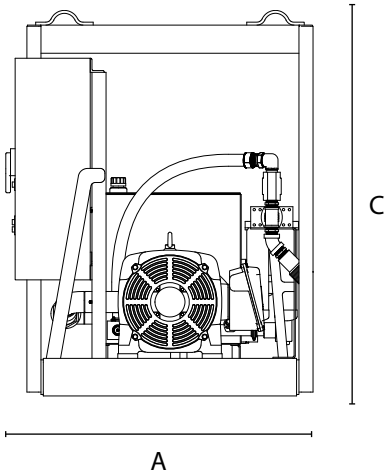
D. Failure reset

E. System loading valve

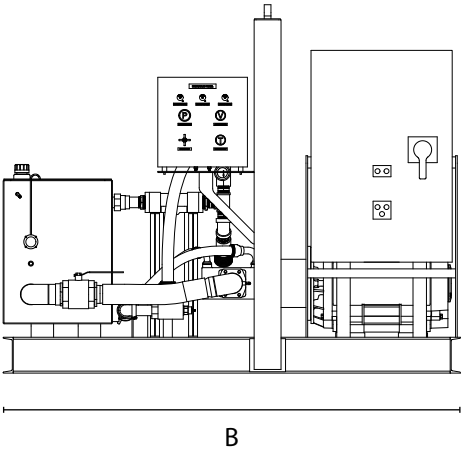
13. Electric motor starter panel (optional)

Items not shown: 6, 7, 13

### DIMENSIONS



PHYSICAL DATA								
Drive Model Number	General Dimensions							
	A		B		C		Dry Weight (Approx.)	
	Ft.	Mts.	Ft.	Mts.	Ft.	Mts.	lbs	kg
800	4.00	1.22	6.00	1.83	5.60	1.71	1750	795
1200-2000	4.25	1.30	7.50	2.29	5.60	1.71	2100	950
2400	4.50	1.37	10.00	3.05	5.60	1.71	3000	1360
3000	5.19	1.58	12.50	3.81	6.67	2.03	4100	1860







## FEEDBACK

The customer was pleased that the system provided an efficient, elegant solution of pumping more water without the need for additional units to sustain the pumping capacity requirement. The contractor purchased the additional pumps and drive units, as well as MWI Pump's maintenance and repair services which saved them considerable money during phase 1 of the project. MWI Pumps was retained to work with the customer on future phases and projects.





# PRIMERITE™ C-SERIES CT004C & CT006C

## 6" BLADE AND AUGER TRASH PUMPS

### APPLICATIONS

**Wastewater  
Ragging and  
Fouling**

**Sewage Bypass**

**Dewatering**

**Hydraulic Transfer**

**Stationary Lagoon  
and Manure Boats**

**Wastewater  
Treatment Plant**

High-efficiency Primerite™ C-Series Trash Pumps can now be outfitted with Blade and Auger Cutter pump ends by Cornell Pumps to handle wastewater ragging and fouling. Cutter pump ends help save on energy costs and are reliable on a wide range of heads and flows. They can be used for retrofit or when passing along to a main trunk or pipeline. Both options keep operation and labor costs low by keeping clean-out events to a minimum, while improving efficiency by reducing downtime and low-flow periods. Both Blade and Auger Cutter Pump ends adhere to the MWI Pumps standards of quality and reliability.

### FEATURES

#### Blade Cutter

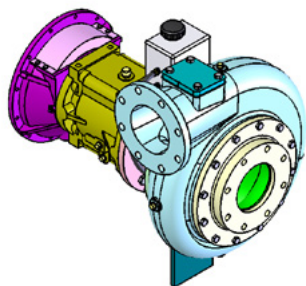


- Consists of a rotating and stationary cutter, utilizing a standard impeller
- Minimal energy consumption (4% or less) for solution
- Designed to break up clogs/ragging
- Hardened cutter material
- Adjustable clearances
- Minimal flow restrictions
- Does not change external pump dimensions
- Retrofittable

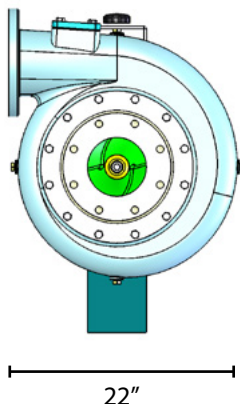
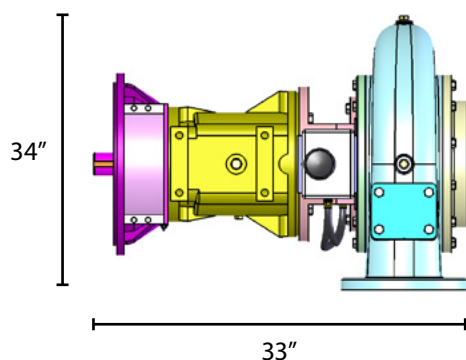
#### Auger Cutter



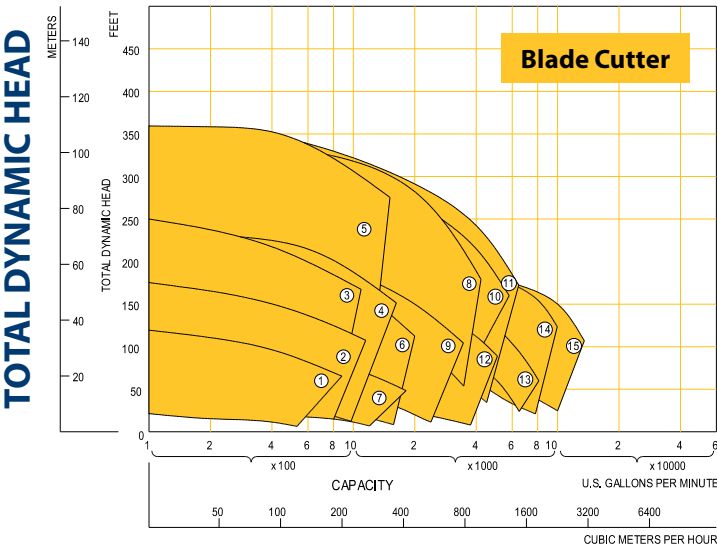
- The more aggressive solution, featuring scythe-like edges from the impeller eye, sweeping all the area where the suction pipe meets the volute
- Handles the most aggressive and troublesome clogs and ragging
- Limited energy consumption (around 8%) for solution
- Hardened cutter material
- Insignificant flow restrictions
- Does not change external pump dimensions
- Retrofittable



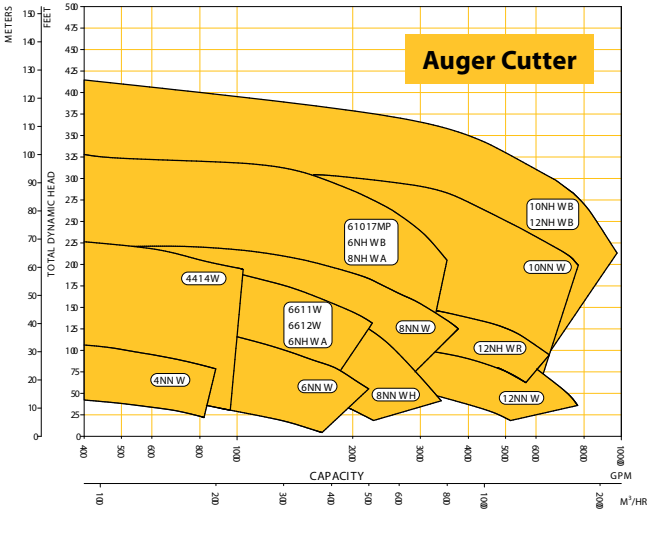
### DIMENSIONS



PERFORMANCE CURVES



WATER FLOW



WATER FLOW

PRIMERITE™ C-SERIES CT004C & CT006C

“ FEEDBACK

*I am the pump station operator for an area of Puerto Rico that is 2-3' below sea level and often ravaged by storms. During Hurricane Maria I operated my stations for over 34 consecutive hours to prevent flooding in the assigned area. With just three 42" pumps from MWI, I prevented flooding and kept our people safe and dry. Your pumps are reliable, efficient and simply the best.*





# PRIMERITE™ C-SERIES CT004C & CT006C

## 4" AND 6" CHOPPER PUMPS WITH REPLACEABLE CUTTER BARS

### APPLICATIONS

Lift Stations

Septage Receiving

Sludge Transfer  
and Recirculation

Digester Scum  
Blankets

Clarifier Scum

Reliable Primerite™ C-Series Pumps can now be built with Chopper pump ends by Cornell Pumps to handle the toughest pumping jobs and chopping solids. The standard casing for this pump is ASTM A536 grade 65-45-12 ductile iron. The replaceable cutter bar is T1 tool steel heat treated to a minimum 600 Brinell hardness. Standard construction includes a heat treated cast steel impeller. Back-to-back angular contact ball thrust bearings and single ball radial bearings make for smooth operation. Each pump is fitted with a John Crane type 2, tungsten carbide single mechanical seal.

The chopper pump requires minimal maintenance and includes a variety of mounting configurations to fit your application needs. A self-cleaning system comes standard, thereby eliminating the need for costly flush piping systems and thousands of gallons per year of wasted flush water.

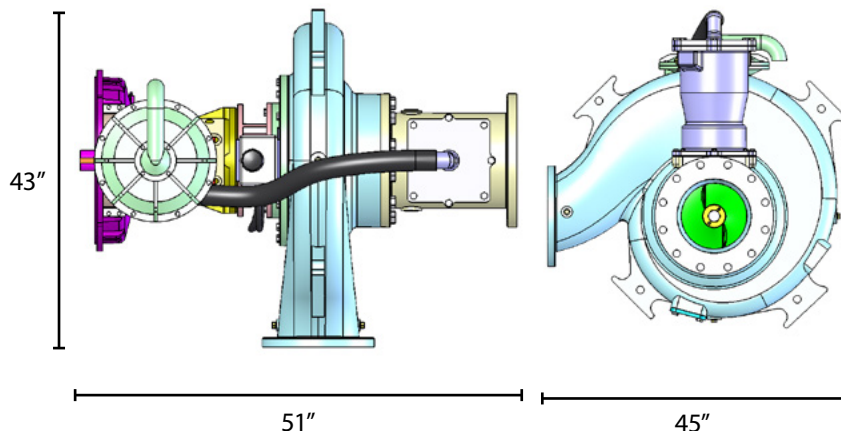
### FEATURES

- Eliminates the vast majority of clogging problems
- Chops solids up to 2"
- No seal flush system necessary
- Efficiency to 65%
- TDH up to 250'
- Operating speeds to 2200 RPM
- Heavy-duty construction
- A variety of mounting configurations
- Frame-mounted or close-coupled configurations
- Vertical and horizontal configurations
- Long-life mechanical seal



Chopper pump operating at a treatment plant.

### DIMENSIONS





# ACCESSORIES

## REPLACEMENT PARTS & HOSE

Find all the commercial / industrial grade water pump accessories you need for your MWI pump, from water pump hardware to quality replacement parts. Whether you need a spare part to keep on hand in the event of an emergency or a new component to make important repairs, you will find what you need in our selection. Please note that some water pump accessories come with your purchase or rental. Other water pump hardware and accessories are only available upon request. MWI engineers can review and evaluate all pump parts and present improved technologies that will reduce wear and improve reliability of your pump.

### PVC WELLPOINT



Item:  
90 Degree Intake

These PVC Wellpoints with conical end caps are used to draw water and air from beneath the ground to temporarily lower the water table and allow for construction. We also carry self-jetting wellpoints.

### BAUER-TYPE FITTINGS



Item:  
Quick Connect/Disconnect

MWI provides a variety of Bauer-type quick connect/disconnect coupling and adapter fittings including; hose ends, screw ends, pipe bends, adapters, flanged ends, rubber sealings, and closure rings.

### HEADER PIPE



Item:  
PVC Schedule 40 Header

Headers collect the water from the wellpoints and deliver it to the pump. MWI PVC Schedule 40 header pipe is available in an 8 inch diameter and 20 foot lengths with either 7 or 10 saddles.

### HEADER PIPE FITTINGS



Item:  
Multiple Configurations

These header pipe fittings come in a number of configurations including; 450 bend, 900 bend, tee and blank end. All fit with extra strength rubber sleeves and stainless steel clamps.

### SWING JOINTS



Item:  
Wellpoint Accessories

Our swing joints are equipped with clear plastic elbows to monitor the flow of water and control valves to maintain vacuum levels. Both ends connect quickly and easily.

### HOSES & FITTINGS



Item:  
Hose Line

MWI has a complete line to fit any application. We provide a variety of hoses ranging from suction hose to high pressure discharge hose. All are available with an assortment of couplings and fixtures.

### HEADER COUPLINGS



Item:  
Sleeves

These flexible rubber sleeves have stainless steel clamps to quickly join header pipes.



# 24/7 EMERGENCY, RENTAL & REPAIR SERVICES

## ON-SITE AND OFF-SITE MAINTENANCE, REPAIR & SUPPORT



# 24/7

Pump Rental &  
Repair Services

**Call 772-770-0004**

### Damage, accidents, malfunctions or maintenance?

MWI Pumps offers 24/7 emergency pump repair services for all our products and a dedicated emergency support staff to assist you ASAP in times of need. Our industrial pump repair and maintenance solutions improve your pump's reliability, extend its service life, and reduce costs. We also repair most pumps from other manufacturers. In addition to our industrial pump repair and maintenance services, we maintain a large inventory of backup pumps and spare parts to keep downtime at a minimum.

Regardless of your needs, let us make your pump run like new again. Our fully staffed engineering department and service team at our Vero Beach location is ready to rebuild and repair your water pump today. We service pumps for a variety of applications, including flood control, irrigation, storm water, agriculture, aquaculture, industrial applications, and cooling water.

## MWI PUMP REPAIR SERVICES

- 24/7 Emergency response
- Engineering and diagnostics
- Pump rebuilding
- Pump replacement parts
- Pump testing
- Pump training

## ON- AND OFF-SITE SERVICES

- 24/7 On-site support
- Emergency pump repair hotline
- Multiple local rental locations
- Pump and equipment rental
- Design and consultancy
- Installation and commissioning
- Application setup and teardown
- Maintenance contracts
- Monitoring and supervision
- Maintenance and repair
- Parts and logistics/delivery
- Training and tech support
- HDPE pipe fusion technicians





# CUSTOM ENGINEERING & DIAGNOSTICS

## IN-HOUSE CERTIFIED ENGINEERING & 100+ YEARS OF EXPERTISE

Customers turn to MWI  
Pumps for our custom  
water pump engineering  
experience,  
responsiveness, and  
quality of service

At MWI, we take pride in our innovative pump designs and can modify or custom design solutions that fit our customer's needs. Our seasoned group of certified engineers work directly with our customers to optimize the performance and reliability of the pumps. If a pump needs assistance, our engineers quickly evaluate, diagnose and pinpoint the root of a pump's degradation or issue and then recommend a comprehensive plan to get it back in full operation. From engineering project reviews to custom water pump engineering, we have you covered.

An engineering review is paramount to extending the life of a pump. Let our team of experienced pump engineers, review and evaluate your pumps today.



## CAPABILITIES

- Custom applications engineering
- In-house Certified engineering staff
- Root-cause analysis with Solid Works
- 3D application modeling
- Stress analysis
- Harmonics study
- Stress testing
- Materials systems analysis



# GLOSSARY

## LARGE-VOLUME PUMP BASICS

**Atmospheric Pressure** — the force exerted by the atmosphere on the earth's surface, which allows a centrifugal pump to operate. At sea level, the atmospheric pressure equals 14.7 PSI.

**Brake Horsepower (HP)** — pump performance can be expressed in horsepower using the following formula:

$$\text{Brake HP} = \text{GPM} \times \text{Ft./Head} \div 3940$$

**Capacity** — the water handling capability (volume) of a pump expressed as gallons per minute (GPM).

**Cavitation** — status in which the pump impeller is not receiving a full supply of material. This can be due to reduced flow or over rotation. Excessive pump RPM can cause a vortex in the eye of the impeller. Air bubbles attach to the metal surfaces and, under extreme pressure, implode, taking tiny bits of metal away with each implosion, pitting the impeller and volute surfaces.

**Centrifugal Force** — the action that causes something to move away from its center of rotation.

**Centrifugal Pump** — uses centrifugal force to move water or other liquids. Centrifugal pumps use an impeller and a volute to create the partial vacuum and discharge pressure necessary to move water through the casing. The impeller and volute form the heart of a pump—their design determines its flow, pressure and solid handling characteristics. As the impeller rotates and churns the water, it purges air from the casing, creating an area of low pressure, or partial vacuum, at the eye (center) of the impeller. The weight of the atmosphere on the external body of water pushes water rapidly through the hose and pump casing toward the eye of the impeller. Centrifugal force created by the rotating impeller pushes water away from the eye, where pressure is lowest, to the vane tips where pressure is the highest. The velocity of the rotating vanes pressurizes the water, forcing it through the volute and discharging it from the pump.

**Check Valve** — (swing check valve) a device used in a suction or discharge line that allows flow in only one direction, isolating the material being pumped.

**Critical Lifts** — suction lifts greater than 25'.

**Dewatering Pump** — designed for clear water applications (agricultural, industrial and residential). As a general rule, dewatering pumps are limited to a 10% solids concentration and a solids size of one-fourth the diameter of the suction inlet.

**Diaphragm Pump** — uses a positive displacement design rather than centrifugal force to move water through the casing, delivering a specific amount of flow per stroke, revolution or cycle. Diaphragm pumps are ideal for applications with slow seepage at the point of suction, due to their great air handling capabilities.

**Duty Point** — The point on a performance curve that plots flow (GPM) and head (feet).

**Dynamic Discharge Head** — the sum of the static discharge head and the discharge friction loss in the discharge line. Also referred to as Total Discharge Head.

**Dynamic Suction Head** — the sum of the static suction lift and the suction friction loss in the suction line. Also referred to as Total Suction Head.

**Flow Rate** — how many gallons per minute (GPM) of pump flow are required. Flow can also be expressed in gallons per hour (GPH) and in million gallons per day (MGD).

$$1 \text{ MGD} = 700 \text{ GPM.}$$

**Float Switch** — a device used to start and stop a pump based on preset water levels.

**Fluid Type** — whether the fluid being pumped is clean or dirty, contains any solids or abrasives or is a hazardous material.

**Friction Loss** — reductions in flow due to turbulence as water passes through hoses, pipes, valves and fittings. This includes both suction and discharge friction losses.

**Head** — gains or losses in pressure caused by gravity and friction as water moves through a system. It can be measured in lbs. per square inch (PSI) or feet of water. A pump must produce 1 PSI to push a column of water vertically 2.31 feet. Use the following formulas to convert:

$$\text{Max pressure} \times 2.31 = \text{Max Head Rating} \quad \text{Max Head Rating} \div 2.31 = \text{Max Pressure}$$

**High Head (high-pressure) Pump** — capable of handling flows at significantly higher total dynamic head ratings (TDH). They utilize a closed design impeller and a compact volute called a diffuser to generate the high discharge pressure needed and cannot handle large solids.

**Hose Length (or Pipe)** — the suction and discharge hose or pipe lengths required for a given application. Longer hoses increase friction loss, reducing pump performance. Hose lengths should be kept as short as possible.

**Impeller** — a rotating disk with a set of vanes coupled to the engine or drive shaft that produces centrifugal force within the pump casing of a centrifugal pump.

**Maximum Suction Lift** — the height (approximately 25') that water can be lifted by a centrifugal pump in actual conditions, taking into consideration altitude, friction loss, temperature, suspended particles and the inability to create a perfect vacuum. The 25' suction lift is attainable for cold water (60°F) at sea level.

**Mechanical Seal** — a spring-loaded pump component that forms a seal between the pump and the engine or motor. Pumps designed for working in harsh environments require a more abrasive resistant seal.

**Net Positive Suction Head (NPSH)** — the amount of energy in the liquid at the pump inlet. It must be defined to have meaning, as either available or required.

**Performance Curve** — a chart or graph that illustrates pump performance by plotting the total head and flow rate at various suction lifts. Performance curves for diesel-driven pumps also show pump performance at various engine RPMs.

**Prime** — the creation of a partial vacuum inside the pump casing, which allows water to flow into the pump.

**Seepage** — the rate at which the fluid being pumped accumulates at the point of suction. Slow seepage allows air into the pump suction, which causes some types of pump to lose their prime.

**Self-priming** — the ability of a pump to purge air from its casing and suction hose, creating a partial vacuum and allowing water to flow freely into the pump.

# HURRICANE PREP, PLANS & FLOOD CONTROL

## HURRICANE PREPARATION, EMERGENCY BYPASS AND FLOOD CONTROL

### Are you prepared with a dependable, flood control solution?

MWI's proven track record in providing emergency flood control, dewatering and bypass assistance to help dry out New Orleans after Hurricane Katrina has made MWI Pumps a veteran at preparing for natural disasters both before and after the storm hits.

Hurricanes, tropical storms and severe emergency events can cause flash floods, flooded roads and canals with debris, damage to personal and municipal property, phone or power outages as well as water, sewer or other disruptions. Preparing for the Hurricane Season before it hits with a solid contingency plan helps reduce damage, cost and time loss from equipment shortages. With a plan in place for hurricane-prone and coastal areas, MWI's stand-by emergency team and rental equipment can provide peace of mind when immediate response is needed the most. MWI Pumps is here to help.



HURRICANE & FLOOD CONTROL

### GLOSSARY CONTINUED

**Solids Concentration** — ratio of solids to liquid in the overall volume of the material being pumped, which is helpful in determining the proper pump for the application.

**Solids Size** — average diameter of individual particles in the material being pumped, which is important to know when specifying a pump. Large solids can be filtered with strainers or rock guards.

**Static Discharge Head** — the vertical distance from the centerline of the pump impeller to the point of discharge. (see dynamic discharge head)

**Static Suction Lift** — the vertical distance from the lowest suction point to the centerline of the pump impeller. This distance should be kept to a minimum for maximum pump performance. (see theoretical and maximum suction lift)

**Submersible Pump** — a centrifugal pump designed to operate within the water source being pumped, thereby eliminating the suction lift limitations common to other types.

**Theoretical Suction Lift** — the maximum height (33.9') that water can be lifted inside a tube under perfect conditions (perfect vacuum) at sea level. At this point, the water inside exerts a pressure equal to the weight of the atmosphere pushing down on the ocean's surface. Theoretical suction lift is calculated by dividing the atmospheric pressure at sea level (14.7 lbs. per square inch) by the weight of one cubic inch of water (.0361 lbs.). This equals 407.2" or 33.9'.

**Total Dynamic Head (TDH)** — the sum of the dynamic suction head and the dynamic discharge head. Also referred to as Total Head.

**Trash Pump** — designed to handle large amounts of debris, with a solid handling capability of 25% by volume. As a rule of thumb, trash pumps can handle spherical solids up to one-half the diameter of the suction inlet. Larger, diesel-driven trash pumps (4" to 12" diameter) are designed to handle 3" diameter solids.

**Viscosity** — the resistance to flow of a liquid at a given temperature. Highly viscous liquids are thick and tend to flow slower than liquids of low viscosity.

**Volute** — the casing surrounding the impeller in a centrifugal pump that collects the liquid discharged from the impeller.

GLOSSARY & NOTES

**MWI Pumps**

33 NW Eller Street

Deerfield Beach, FL 33441

General Inquiries: 954-426-1500

Emergency Tel: 772-770-0004

**[mwipumps.com](http://mwipumps.com)**

**Rental Locations**

Deerfield Beach: 954-427-2206

Vero Beach: 772-770-0004

Jacksonville: 904-425-6741

Orlando: 407-854-3378

Tampa: 813-899-2863

Fort Myers: 239-337-4747

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