

Description

Our pumping systems for flow rates between 3800lpm - 42000lpm at discharge pressures up to 12bar and are standard equipped with a Caterpillar engine in combination with a pump from Peerless, Ruhr, Hale or Sims. To meet our customer's needs, a wide range of variations is available.

Hurricane C1,5

The Hurricane C1.5 is a NFPA standardized trailer-mounted draft pumping system capable of pumping up to 1500 GPM (5678 LPM) of water or foam solution with a maximum discharge pressure of 165 PSI (1138 kPa). Designed to be towed by a full-size truck, the pump can be quickly delivered to the water source and put to work once the hose lines and downstream devices are online. Robust, durable and dependable, the Hurricane is the answer for rapid deploying hi-volume water supply.



Key features

- Nominal Flowrate: @ 1138 kPa ca. 5678 LPM
- Rated suction lift: 10 ft (3 m) – per NFPA 1901
- SS suction manifold: single 6" capped NH connection
- SS discharge manifold: two 4" valved Storz connections
- Priming system: Electric vacuum primer
- Trailer Weight w/monitor (approx.): 3200 kgs
- Fuel capacity: 568ltr (> 10 hrs @ full power)

Hurricane C3

The Hurricane C3 is a trailer-mounted draft pumping system capable of pumping up to 3000 GPM (11,350LPM) of water or foam solution with a discharge pressure of 165 PSI (1138 kPa). Designed to be towed by a fullsize truck, the pump can be quickly delivered to the water source and put to work once hose lines and downstream devices are online. Robust, durable and dependable, the Hurricane is the answer for rapid deploying hi-volume water supply.



Key features

- Maximum Flowrate:
 - @ 1138kPa: 11,350 LPM
 - @ 1035kPa: 13,600 LPM
- SS suction manifold: three 6" capped connections
- SS discharge manifold: three 5" valved connections
- Priming system: Dual electric vacuum primers
- Weight (approx.): 5450 kg
- Fuel capacity: 720 ltr (> 8 hrs @ full power)

Hurricane C4

The Hurricane C4 is a trailer-mounted draft/boost pumping system capable of pumping up to 4000 GPM (15,142 LPM) of water or foam solution with a discharge pressure of 165 PSI (1138 kPa). Designed to be towed by a full-size truck, the pump can be quickly delivered to the water source and put to work once the hose lines and downstream devices are online. Robust, durable and dependable, the Hurricane is the answer for rapid deploying hi-volume water supply.



Key features

- Maximum Flowrate:
@ 1138kPa: 15,142 LPM
@ 1035kPa: 17,600 LPM
- SS suction manifold: four 6" NH connections
- SS discharge manifold: four 5" valved connections
- Priming system: Dual electric vacuum primers
- Weight (approx.): 6350 kg
- Fuel capacity: 757 ltr (> 8 hrs @ full power)

Hurricane C5

The Hurricane C5 is a trailer-mounted draft/boost pumping system capable of pumping up to 5000 GPM (18,927 LPM) of water or foam solution with a discharge pressure of 165 PSI (1138 kPa). Designed to be towed by a full-size truck, the pump can be quickly delivered to the water source and put to work once the hose lines and downstream devices are online. Robust, durable and dependable, the Hurricane is the answer for rapid deploying hi-volume water supply.



Key features

- Maximum Flowrate: @ 1138kPa: 18,927 LPM)
- SS suction manifold: six 6" NH connections
- SS discharge manifold: five 5" valved connections
- Priming system: Triple electric vacuum primers
- Weight (approx.): 6577 kg
- Fuel capacity: 1003 ltr (> 8 hrs @ full power)

Pumps

- Flow Rates: 3800lpm – 42000lpm
- Discharge Pressure: Standard up to 1138kPa
- Engine: Caterpillar Industrial Power Unit
 - C4.4, C7, C9, C13, C15, C18, C27, C32
 - Power Unit selected based on customer needs for flow rate and discharge pressure
- Pump/Impeller: Peerless, Ruhrpumpen, Hale, Simspump
 - Peerless and Ruhrpumpen pumps are used for flows 7600 lpm and above
 - All pumps use a bronze impeller
 - Special accommodations can be made for sea water such as Al-Ni-Bronze impellers
 - Simspump manufactures a direct graphite composite impeller replacement for any of our pumps, which is corrosion proof
- Power Transmission
 - End-Suction Pump (Hale): Integrated flywheel-mounted gearbox pump assembly
 - Horizontal Split-Case: Direct driven shaft coupling
 - Optional Clutch for horizontal pumps (simplifies maintenance and priming)
- Priming System (Drafting)
 - Electric Vacuum Primers provide necessary air removal
 - Larger manifolds, greater number of primers
- Manifold Connections (Suction and Discharge)
 - Storz, Multi-lug, NH, etc.
 - Optional Valved Inlet(s) for relay pumping

Other options

Foam Proportioning

- “Around-the-pump” Eductor Style pre-piped proportioning
- HAPS – Hydraulic Automated Proportioning System
- System runs using hydraulic pump powered by auxiliary PTO from engine

Control and Electric

- Onboard air compressor and/or generator
- Wireless control of pump and monitor (200mtr range)
- Trailer
 - Standard A-Frame Trailer, Low-Boy or Fifth Wheel
 - Optional NFPA 1901 Standardization
 - Fuel Capacity for 8+ hours of runtime
 - Anti-slip working surfaces (tough coat or diamond plate)
 - Hitch coupler: per customer spec (ball, pintle hook, etc.)
 - Brakes: Electric with emergency breakaway protection and manual hand brake
 - Interior and exterior maintenance/operation lighting
 - Wheel chocks
 - LED trailer lighting per FMVSS 108 and USDOT regulations
 - Available External (side) storage for suction hoses and top mounted monitor

Skid

- Compact Skid, ISO-Skid, Ro-Ro Skid
- Standard Enclosed Skid for protection of pump and engine assembly (optional open skid)
- Fuel Capacity for 8+ hours of runtime
- Anti-slip working surfaces (tough coat or diamond plate)
- Interior and exterior maintenance/operation lighting
- Available External (side) or Internal storage for suction hoses and top mounted monitor

Hurricane Skid Pumping Unit

The Hurricane Skid Pumping Unit is an enclosed skid-mounted draft pumping system capable of flow ranges between 1000 GPM (3785 LPM) to 11000 GPM (41640 LPM) of water or foam solution with a discharge pressure of 165 PSI (1138 kPa). Like its trailer-mounted version, the Hurricane is a diesel-power unit driven pump package with on-board priming and optional foam proportioning. The skid can be a customer specific layout to meet space requirements or utilize standard ISO container framing for shipping and fireboat conversion convenience. The Hurricane Series is the precise solution to Hi-Volume pumping needs for emergency water needs.

Key features

- Maximum Flowrate: @ 1138kPa: 18,927 LPM)
- SS suction manifold: six 6" NH connections
- SS discharge manifold: five 5" valved connections
- Priming system: Triple electric vacuum primers
- Weight (approx.): 6577 kg
- Fuel capacity: 1003 ltr (> 8 hrs @ full power)



HRC5 Package shown with compact frame layout and bottom suction/top discharge ports

Pumping Systems

- Flow Rates with Caterpillar engine: 3800 lpm – 42000 lpm
 - HRC1 – 3800 LPM (1000 GPM): CAT C6.6/C7 @ 225 HP
 - HRC3 – 11355 LPM (3000 GPM): CAT C13 @ 400 HP
 - HRC5 – 18925 LPM (5000 GPM): CAT C18 @ 700 HP
 - HRC8 – 30280 LPM (8000 GPM): CAT C27 @ 1100 HP
 - HRC11 – 41635 LPM (11000 GPM): CAT C32 @ 1350 HP
- Discharge Pressure: Standard up to 1138kPa
- Engine: Caterpillar Industrial Power Unit
 - C1, C3, C5, C8, C11
 - Power Unit selected based on customer needs for flow rate and discharge pressure
- Pumping System:
 - Peerless horizontal split case centrifugal pump
 - Optional composite Sims horizontal pump
- Manifolds, Piping and Valves:
 - All Piping Stainless Steel
 - Inlets: Standard NH/customer specific
 - Outlets: Standard Storz/customer specific
- Priming System: Hale ESP Priming with manual valves
- Control system: Rear-mounted operator's panel with Caterpillar control module, priming control, suction & discharge pressure gauges, lighting control, and AC inlet for engine heater and battery charging

Skid

- Compact Skid or ISO-20 Frame
- Fuel capacity: > 8 hrs @ full power
- Anti-slip working surfaces
- Internal storage of suction lines (if applicable)
- Exterior flood lighting for nighttime operations
- Interior lighting for ease of maintenance



* HCl.5SKMI-1500 GPM Monitor Skid

Options

- Top-mounted electric monitors
- Internal foam proportioning
- Complete wireless control package (pump and monitors)
- Customer specific water connection types
- Custom colors and decals



* HRC11 Package shown with optional dual 6" electric monitors

Typhoon Pumping System

The Typhoon Pumping System is an ISO-skid mounted hi-lift pumping system capable of pumping flows ranging between 1000 to 10000 GPM (3785 - 37854 LPM) of water or foam solution with a discharge pressure of 165 PSI (1138 kPa). Designed to be moved using standard over-the-road trucking, the Typhoon can be quickly delivered to the water source and put to work once hose lines and downstream devices are online. Robust, durable, dependable and virtually corrosion proof, the Typhoon is the answer for rapid deploying hi-lift hi-volume water supply needs.

Pumping System

- Engine Types: Single or Dual Caterpillar Diesel Industrial Power Units
(Number of engines depends on flow rate)
- Boost Pump(s): Peerless w/bronze impeller
- Flow Rates Available @ 165 PSI Discharge: 1000 – 10000 GPM (3785 – 37854 LPM)
- Submersible Pump(s): Hydraulically-driven powdercoated aluminum body pump with integrated flotation and Sims structural graphite composite impeller
- Max Lift: 125+ ft (38+ m)
- Manifolds and Piping: All stainless steel
- Control system: Rear-mounted operator's panel with Caterpillar control module, suction & discharge pressure gauges, lighting control, and AC inlet for engine heater and battery charging
- Optional On-Board Proportioning System: Eductor-Style or Hydraulic Automated Proportioning System



Skid

- Frame: Standard ISO-20 or 30 configuration
- Removable Top Shell and side entries for engine maintenance
- Fuel capacity: (> 8 hrs @ full power)
- Anti-slip internal working surfaces
- Interior and exterior lighting
- Internal storage for supply hoses
- Internal hydraulic hose reels for submersible pump deployment