DEPENDAPOWER Transportable Pumps

Description

Available in versatile 6000 GPM, 8000 GPM, and 10,000 GPM Models, WILLIAMS FIRE & HAZARD CONTROL (WILLIAMS) DEPENDAPOWER Transportable Pumps are diesel- driven, horizontal split case centrifugal pumps utilizing premium CATERPILLAR* or John Deere diesel drivers along with Goulds or Patterson water pumps to deliver exceptional performance evidenced by a 10 ft (3.05 m) lift of 6,000 gpm (22,712 Lpm) rating at 150 psi (10.3 bar) net outlet pressure at sea level. Our 8000 GPM and 10,000 GPM Models offer diverse pressure requirements with flooded suction systems.

Rugged corrosion-resistant designs, including full stainless steel manifolds and Belzona internal pump coating, produce an ideal system for draft and relay pump operations with fresh water, sea water, or brackish water. The pump, driver, and built-in fuel cell are integrated on a modular independent skid, which may be configured into various transportation modes, such as trail- ers or hook load skids to provide additional mobility.

WILLIAMS' DEPENDAPOWER line of pumps offers standard configurations built with popular features to get you up and running fast. This includes an extensive list of optional items, accessories, and pump sizes that provide great flexibility in customizing a pump solution to meet your most challenging water management needs.

Features

Wide Range of Available Packages: Available in 1,500 gpm (5,678 Lpm), 4,000 gpm (15,142 Lpm), 6,000 gpm (22,712 Lpm), 8,000 gpm (30,283 Lpm), and 10,000 gpm (37,854 lpm) packages.

Global Emissions Compliance: DEPENDAPOWER Pumps offer global emissions compliance with Tier II, III, and IV drivers.

Reliable Proven Track Record: These pump packages have been deployed by WILLIAMS Emergency Response Services for decades in their extensive, global response efforts. DEPENDAPOWER pump configurations are a critical component of our Emergency Response and Equipment Rental services.

Ease of Use and Serviceability: These packages offer a user-friendly operations interface, as well as low maintenance requirements. Typical field maintenance issues, such as fuel, oil, and filters, are minimal. Service partners are available globally for driver or service pump needs.

World Class Components: Superior performance of 10 ft (3.05 m) lift at full flow rate enables direct drafting from low level water sources where competing products fall short. Pumps provide lift as high as 20 ft (6.1 m) with reduced flow and proper priming.

Designed for Mobility: Compatible with various transportation modes, these pumps provide a great deal of power in a portable package. They offer mobility and stability for deployment into any land or marine based exercise.

Wide Range of Available Options: Meet today's most challenging water movement scenarios with a fully customizable pump package tailored to your unique specifications.

Optional Features

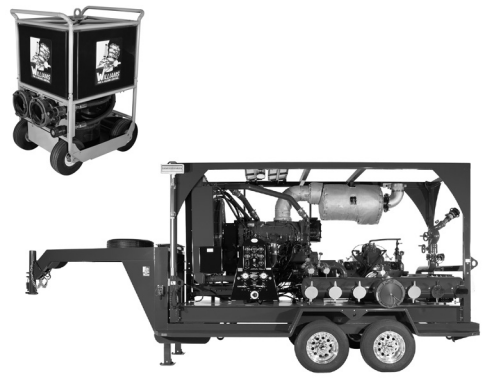
- Suction and supply hose racks
- Double mechanical seals, API Plan 53 flush, with tank
- Twin-disc clutch and hydraulic actuation kit with air-powered dry prime type system
- Sound attenuated pump enclosure
- Collapsible awning over operator area
- "Change while running" fuel filters
- Additonal tool kits
- Floating strainers
- Configurable with bumper-pull or goose-neck-styled trailer, or hook-load skid configurations

Note: Contact your Williams Fire & Hazard Control Technical Advisor or Customer Service for additional custom configurations. Email: sales@williamsfire.com

Application

The adequate supply and management of water resources are critical to the success of any firefighting emergency response effort. Whether drafting from natural water sources or feeding off a facility's positive pressure water system, relaying water over miles of hose can be challenging.

WILLIAMS DEPENDAPOWER product line is a customizable, high-performance offering with three primary pump size options. Field-proven, these workhorse pumps have demonstrated they are built to run tirelessly, sustain high pressure, and deliver the large water volumes required for the most challenging industrial firefighting scenarios.



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DEPENDAPOWER BOOST PUMP SPECIFICATIONS				
		STANDARD PUMP MODELS		
		10,000 GPM (37,854 LPM) Pump	8,000 GPM (30,283 LPM) Pump	6,000 GPM (22,712 LPM) Pump
Base Material	Skid, Rack & Trailer	Carbon Steel		
	Manifolds (Suction & Discharge)	316SS		
Nominal Dimensions (Skid L × W × H)		337 in. L × 102 in. W × 144 in. H (8560 mm L × 2591 mm W × 3658 mm H)		
		* Clutch adds 24" (610 mm) to Skid Length		
Gross Weight (Skid - Without Fuel)		28,000 lb (12,700 KG)	25,600 lb (11,612 KG)	18,800 lb (8,528 KG)
Standard Arrangement		Pump skid is removable from trailer for tactical flexibility. Fuel tank is incorporated into the skid base. *Other configurations available upon request for additional cost.		
Pump Type		Horizontal split-case		
Pump Models Available		Goulds 3409 14 x 10	Goulds 3409 14 x 10	Goulds 3409 14 x 10
				Patterson 12 x 8 MAA-G
Pump Coating		Belzona Coating (Internal Pump Case) *Standard Only for Goulds Pump		
Drivers (Standard) (Horsepower depends on individual unit specification)		CATERPILLAR C32 (1125 HP)	CATERPILLAR C27 (950 HP)	CATERPILLAR C18 (800 HP)
		CATERPILLAR C27 (950 HP)	CATERPILLAR C18 (800 HP)	JOHN DEERE JD18 (805 HP)
			JOHN DEERE JD18 (908 HP)	
		* HP Depends on individual unit specification.		
Clutch		Available Twin Disc Clutch (Adds 24" Overall Length)		
Fuel Cell Capacity		520 gal (1968 L)	460 gal (1741 L)	420 gal (1,590 L)
Suction Inlets (Standard)		Two x 12" Storz, Six × 6" (M)NST, Two × 2.5 in. (F)NST with plugs; *Options available @ additional cost	One × 12" Storz, Four × 6" (M)NST, Two × 2.5" (F)NST with plugs; *Options available @ additional cost	One × 12" Storz, Six × 6" (M)NST, Two × 2.5" (F)NST with plugs; *Options available @ additional cost
Suction Hose		6 in. x 20 ft Suction Hoses Included in Base Cost (One suction hose provided for each 6" Inlet)		
Standard Discharge Outlets		Two - 12" Storz with 12" w/Butterfly Valve, Four × 6"Storz w/Butterfly Valve, Two × 2.5" (M)NST with caps; *Options available @ additional cost	One × 12" Storz with 12" w/Butterfly Valve, Six × 6" Storz w/Butterfly Valve, Two × 2.5" (M)NST with caps; *Options available @ additional cost	One × 12" Storz with 12" w/Butterfly Valve, Six × 6" Storz w/Butterfly Valve, Two × 2.5" (M)NST with caps; *Options available @ additional cost
Recirculation Discharge		4" Monitor with Butterfly Valve (Nozzle capable of at least 500 gpm integrated into the discharge manifold, mounted at rear of unit)		
Control Panel		Digital Control Panel with Automatic Pressure Governor.		
Light Packs		24 V LED Lights Illuminate Work Area and Pump Maintenance Areas		
Performance Features				
Positive Feed		10,000 GPM @ 150 PSI (HP Req't)	8000 GPM @ 175 PSI (HP Req't)	8,000 GPM @ 150 PSI (HP Req't)
Draft @ 10 Ft Lift		6,000 GPM @ 175 PSI	6,000 GPM @ 165 PSI	6,000 GPM @ 150 PSI
Max Run Time		10 Hours (With Full Fuel Cell)		
Environmental and Safety Features				
Max Ambient Temperature		120 °F (49 °C)		
Protection System		Emergency kill switch: auxiliary circuit breaker bank		

Standard Items Included (Unless Noted Otherwise)

- All Inlet Manifolds Include Two × 2 ½" App Style Ball Valve Auxiliary inlets; One × 3" Blind Flange for Optional Equipment
- All Discharge Manifolds Include Two × 2 ½" App Style Ball Valve Auxiliary Discharge Outlets and One × 3" Blind Flange for Optional Equipment
- One Dead Blow Hammer
- Storz Wrench Set
- 6" Storz × 5" Storz Adapter, One for Each Storz Discharge (Excluding 12")
- 6" (F)NST × 6" Storz, One for Each 6" Inlet
- 6" (F)NST × 5" Storz, One for Each 6" Inlet
- Suction Hoses: 6" × 20 FT Suction Hose (One for Each 6" Inlet)
- Strainers: 6" NST Non-Floating Barrell Strainers, One for Each 6" × 20 FT Section Hose Provided
- Wheel Chocks (Two Sets)

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DEPENDAPOWER SUBMERSIBLE PUMP SPECIFICATIONS		
		STANDARD PUMP MODELS
		8,000 GPM (30,283 LPM) Pump
Base Material	Skid, Rack, &Trailer	Carbon Steel
	Optional Manifold (One × 12",Two × 8")	316SS
Nominal Dimensions (Skid L × W × H)		128 in x 98 in x 201 in 3251 mm x 2489 mm x 5105 mm
Gross Weight (Skid - Without Fuel)		20,500 lb (9300 kg)
Standard Arrangement		Gooseneck Trailer, Bumper Pull Trailer
Pump Type		Floating Submersible
Pump Unit		Kase SP4V9 (Single Unit Flows 4,000 GPM Flow / Two Tandem Units for 8,000 GPM Pump)
Pump Material		Carbon Fiber, Aluminum Flotation and Inlet Screen
Driver		John Deere JD14 (500 HP)
Clutch		Available Twin Disc Clutch (Adds 24" Overall Length)
Fuel Cell Capacity (Estimated)		250 gal (946 L)
Submersible Pump Discharges		One × 8" Storz Per Submersible Pump Unit (Two Tandem Units for 8,000 GPM Pump)
System Hose Connections (Per Pump Unit)		Three System Connections for Each Submersible Pump Unit: One, Hydraulic Feed Line | One, Hydraulic Return Line | One, Case Drain Line * 200-Feet of Each Hose Per Pump Unit
Hose Reels		One Hose Reel for Each System Hose Line (8,000 GPM Pump Package Totals Six Hose Reels, Each Capable of Loading 200-Feet of Line Respectively)
Crane (Front or Rear Mount)		45-FT Knuckle Boom Crane, Powered by System Hydraulics.
Control Panel		IP65 Full Color LED Display to Monitor/Control Hydraulic System and Diesel Engine. Panel Also Includes Manual Backup Controls.
Light Packs		24 V LED Lights Mounted to Lifting Frame Effectively Lighting both Work and Maintenance Areas
Performance Features		
Package Performance		8000 gpm @ 23 psi
Hydraulic System Pressure		5,000 PSI
Max Run Time		8 Hours (With Full Fuel Cell)
Environmental and Safety Features		
Max Ambient Temperature		1232°F-130°F [0°C-54°C] Engine heating aids required to start below 32°F [0°C]
Protection System		Emergency kill switch: auxiliary circuit breaker bank

Standard Items Included (Unless Noted Otherwise)

- Spreader Bar and Lifting Slings to Connect Pump units together for lifting and deployment.
- Spare Belly Box Control battery mounted with charger
- Two × 8" X 100' Sections of Lay Flat Hose, Orange
- 6" and 12" Storz Wrench set (Two of each)

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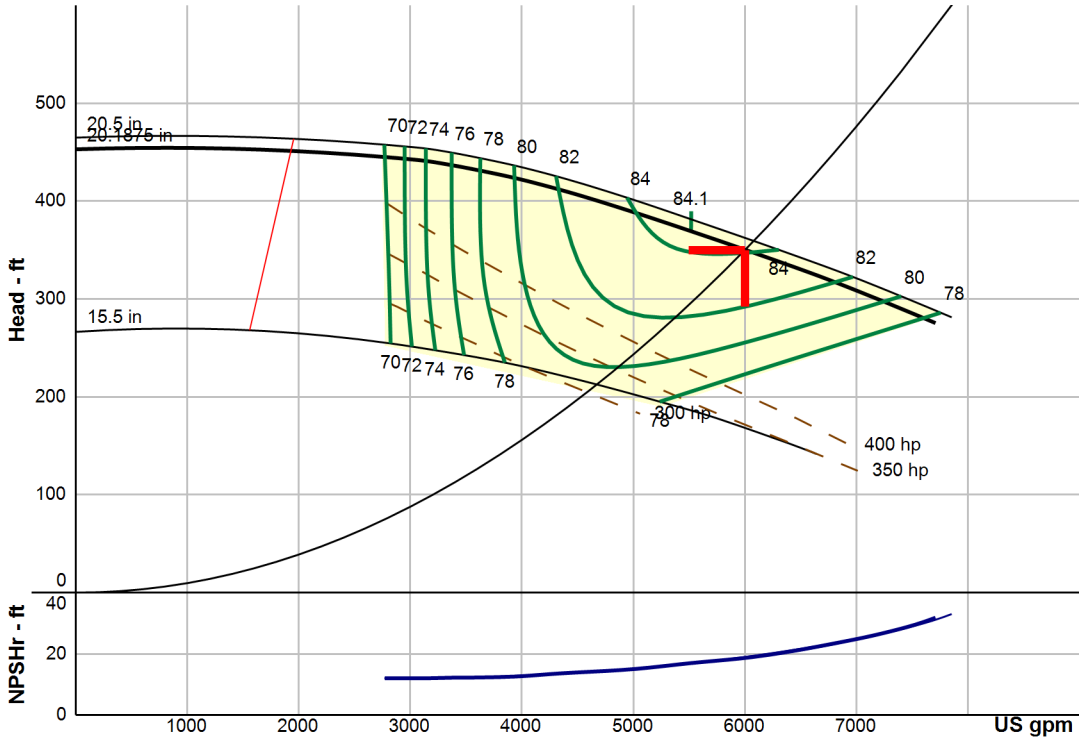
Performance Curve

--- Duty Point ---	
Flow:	6002 US gpm
Head:	350 ft
Eff:	84%
Power:	632 hp
NPSHr:	18.7 ft
Speed:	1750 rpm
--- Design Curve ---	
Shutoff Head:	453 ft
Shutoff dP:	196 psi
Min Flow:	1931 US gpm
BEP: 84.1% @ 5517 US gpm	
NOL Power:	
696 hp @ 7710 US gpm	
--- Max Curve ---	
Max Power:	
724 hp @ 7855 US gpm	



In accordance with the Hydraulic Institute Standards, pump is guaranteed for one set of conditions. Performance guarantees are based on shop test and when handling clear, cold, fresh water at sea level and at a temperature no greater than 85 degrees F. Suction lift must not exceed that shown on curve.

Performance Evaluation:

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
7200	1750	299	80.2	679	26.4
6000	1750	350	84	632	18.7
4800	1750	396	83.3	574	14.6
3600	1750	432	77.8	505	12.3
2400	1750	446	65.8	417	12

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Performance Curve

Notes: 1. Power and efficiency losses are not reflected on the curve below.
2. Elevated temperature effects on performance are not included.