

6" Solids Handling ENVIOPRIME System® Pump



Thompson Pump 6JSCEN-DJDST-45T-M

With its heavy-duty cast-iron construction and ability to dry-prime and re-prime automatically, this end-suction centrifugal pump leads the industry in construction, industrial and mining applications. The Thompson 6JSCEN-DJDST-45T-M ENVIOPRIME System® solids-handling pump is designed for high flows and heads to 195 feet making it perfect for sewage bypass pumping or general construction dewatering. The 6JSCEN-DJDST-45T-M pump provides flow rates to 2,700 gpm and solids handling to 3".

Features and Benefits

- Maximum flows to 2,700 gpm.
- Heads to 195 feet.
- Fully automatic, dry priming to 28 feet.
- John Deere 4045TF290-74 engine.
- ENVIOPRIME System® compressor-assisted priming system prevents blow-by, allowing pump to be environmentally safe.
- Modular frame included with optional, removable, Silent Knight® sound attenuated enclosure available.

Maximum Run Time:

- 17 hours @ 2,000 rpm
- 21 hours @ 1,800 rpm
- 33 hours @ 1,600 rpm

ENVIOPRIME System®

Thompson's exclusive ENVIOPRIME System® works in conjunction with the compressor/venturi priming system to prevent blow-by, such as sewage and waste, from discharging on the ground. The system works automatically, evacuating the air from the suction line during startup, as well as any air or gases introduced into the suction line during the pumping process.

- Handles large volumes of air, producing quicker priming times.
- Eliminates need for a venturi waste hose.
- Extends the life of the pump by separating air and water, keeping the venturi from clogging and shutting down the system.
- This innovative system, along with high efficiency impellers, lessens power requirements resulting in reduced operating costs.



ENVIOPRIME
system®

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Engine Specifications

Engine: John Deere 4045T, 72 hp @ 2,000 rpm
Type: 4-cylinder, in-line, 4-cycle, water-cooled, turbo-charged, direct-injected, Interim Tier IV diesel

Standard Equipment: Alternator, radiator, EPA certified emissions exhaust muffler

Displacement: 275 cubic inches

Fuel Economy: .397 lb/hp-hr @ 2,000 rpm

.395 lb/hp-hr @ 1,800 rpm

.397 lb/hp-hr @ 1,600 rpm

Automatic Shutdowns: Low oil pressure; High water temperature

Materials of Construction

Pump Casing: Heavy-duty class 30 cast-iron with cleanout port.

Impeller: Dynamically balanced, non-clogging, enclosed, 65-45-12 ductile iron with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life; 12" Diameter.

Suction Wear Ring: 65-45-12 ductile iron.

Mechanical Seal: 2.5" dry-running, grease-lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Other components are 304 stainless steel and viton.

Shaft: 4340 alloy steel and fitted with a renewable 416 stainless steel shaft sleeve.

Unit Specifications

Fuel Tank Capacity: 70 US gallons

Fuel Consumption: 3.97 gph @ 2,000 rpm

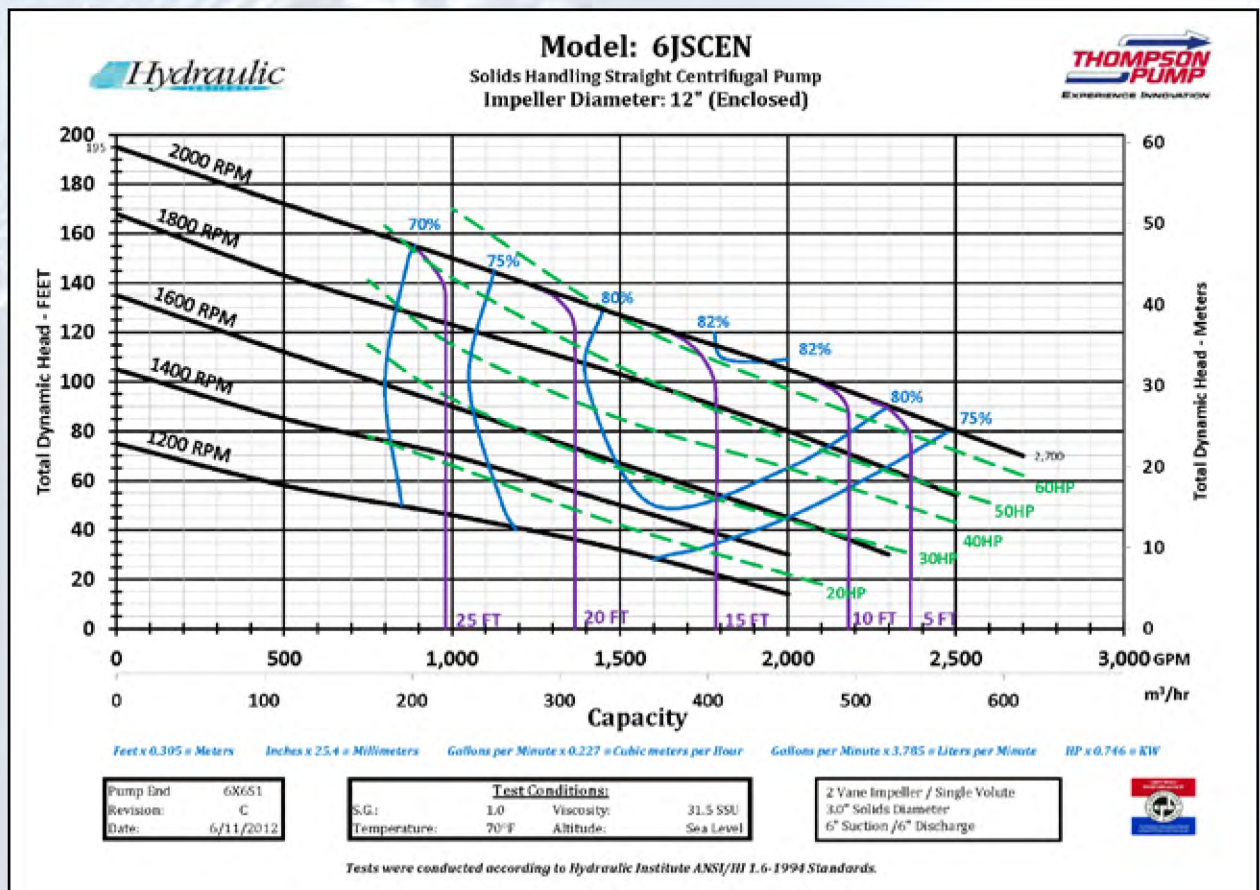
Maximum Operating Speed: 2,000 rpm

Maximum Operating Temperature: 212°F

Maximum Operating Pressure: 85 psi

Maximum Suction Lift: 28 feet

Maximum Casing Pressure: 195 psi



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