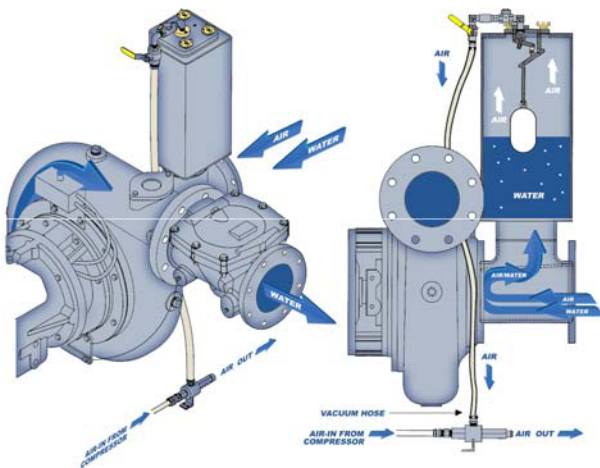


8" Solids Handling ENVIROPRIME® Pump 8JSCE-DJDST-45H-M

With its heavy-duty cast-iron construction, ability to dry-prime and re-prime automatically, this end-suction centrifugal pump leads the industry in construction, industrial and mining applications. The Thompson 8JSCE-DJDST-45H-M ENVIROPRIME® Solids Handling Pump is designed for high flows to 3,200 gpm and high heads to 300 feet making it perfect for sewage bypass pumping or general construction dewatering.

Features

- ☒ Standard engine – John Deere 4045HF485-154. Also available with a Deutz engine.
- ☒ Fully automatic, dry priming to 28 feet.
- ☒ Moderate heads to 300 feet; Maximum flows to 3,200 gpm; solids handling to 3"
- ☒ Modular frame included. Also available with removable drop-on Silent Knight® sound enclosure
- ☒ Maximum operating time is:
16 hours @ 2,000 rpm
21 hours @ 1,800 rpm
27 hours @ 1,600 rpm
- ☒ ENVIROPRIME® compressor-assisted priming system prevents blow-by allowing pump to be environmentally safe



ENVIROPRIME® system

Thompson's exclusive ENVIROPRIME® dry-priming system works in conjunction with the compressor/venturi priming system to prevent blow-by, such as sewage and waste, from discharging onto 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.

Features and Benefits

- ☒ 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.
- ☒ Allows for optional noise suppressor
- ☒ This innovative system, along with high efficiency impellers, lessens power requirements resulting in reduced operating costs.

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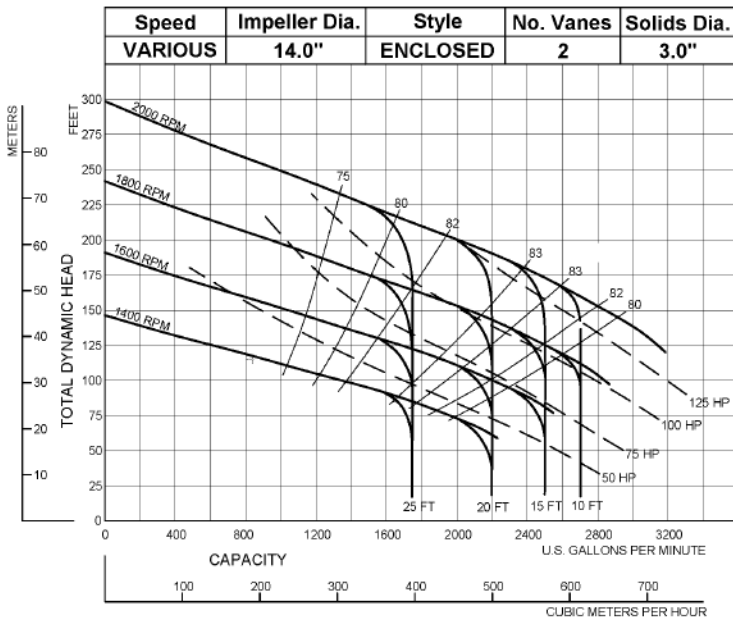
Engine Specifications

Engine: John Deere 4045H, 149 hp @ 2,000 rpm
Type: 4-cylinder, in-line, 4-cycle, water-cooled, turbo-charged, direct-injected, Tier III diesel
Standard Equipment: Alternator, radiator, muffler, and residential grade silencer muffler
Displacement: 275 cubic inches
Fuel Economy: .350 lb/hp-hr @ 2,000 rpm
 .351 lb/hp-hr @ 1,800 rpm
 .360 lb/hp-hr @ 1,600 rpm
Automatic Shutdowns: Low lube oil pressure; high water temperature

Materials of Construction

Pump Casing: Heavy-duty class 30 cast-iron
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; Diameter 14"
Mechanical Seal: 2.5" dry-running, grease or oil lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Other components are 304 stainless steel and nitrile.
Head: Rugged, back pull out design, heavy-duty class 30 cast iron with tapered bore design.
Bearings & Frame: Heavy-duty grease lubricated to carry both axial and radial loads. Frame, heavy-duty class 30 cast iron
Suction Wear Ring: 65-45-12 ductile iron
Shaft: 'Stress-proof' steel and fitted with a renewable 416 stainless steel shaft sleeve

8JSCE-DJDST-45H-M Performance Curve



Unit Specifications

Fuel Tank Capacity: 114 US gallons
Fuel Consumption: 6.76 gallons per hour
Maximum Operating Speed: 2,000 rpm
Maximum Operating Temperature: 212°F
Maximum Working Pressure: 160 psi
Maximum Suction Lift: 28 feet
Maximum Casing Pressure: 175 psi