



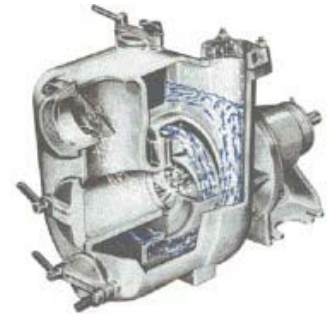
10" Wet-Prime Trash Pump

10HT-DJDST-4045T

With its heavy-duty cast-iron construction, ability to self-prime and re-prime automatically, this trash pump leads the industry in construction, industrial and wastewater applications. The 10HT-DJDST-4045T provides high flow rates up to 3,500 gpm and can handle spherical solids up to 3.35"

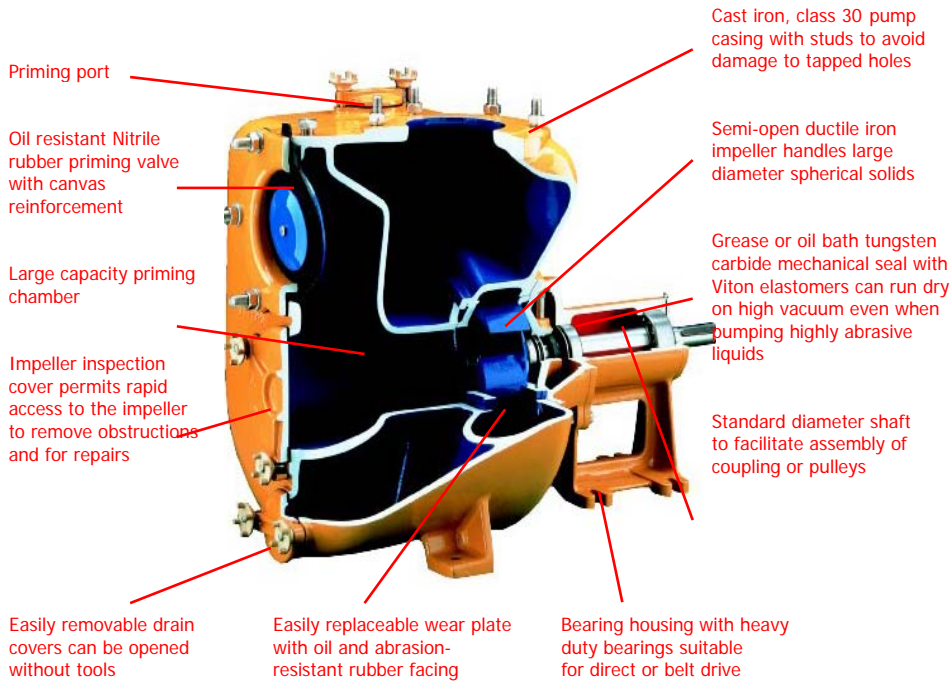
Features

- Standard engine – John Deere 4045T. Also available with Deutz engine
- Fully automatic, dry priming to 28 feet.
- Moderate heads to 120 feet
Maximum flows to 3,500 gpm
- Compact unit available with modular frame
- Maximum operating time is 16 hours @ 1,800 rpm.



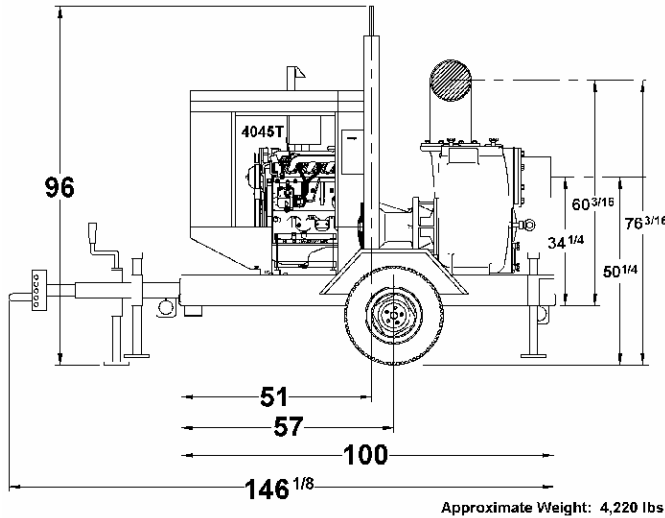
The impeller rotates and creates a vacuum drawing air into the pump where it is mixed with the liquid contained in the pump casing. The air/liquid mixture is driven into the priming chamber where the air separates and is expelled through the delivery port while the liquid, due to its higher density, falls back and is re-circulated.

When the suction line has evacuated the air, the pump is primed and operates as a standard centrifugal pump. The check valve mounted in the pump suction port ensures that sufficient liquid remains in the pump casing for re-priming. In addition, the check valve prevents the liquid from draining out of the suction line, so at restart no time is lost for re-priming.



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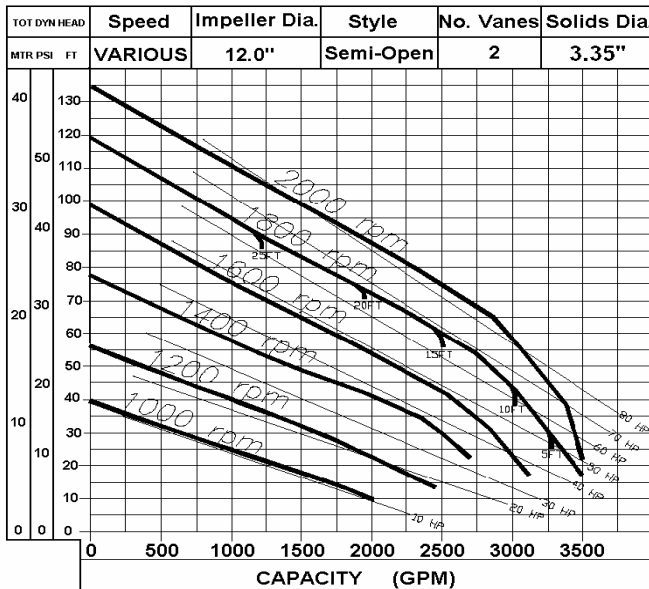
10HT-DJDST-4045T Dimensions



Materials of Construction

- Pump Casing:** Heavy-duty class 30 cast-iron with built-in volute
- Impeller:** Dynamically balanced, two-vane, non-clogging, semi-open, ductile iron, with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life. Diameter 12.0"
- Mechanical Seal:** 65mm type AR3; grease or oil lubricated with Tungsten Carbide rotating and stationary seal faces. All other seal components are 304 stainless steel and Viton.
- Suction Check Valve:** Built-in weighted, full-flow valve to eliminate re-priming with each cycle.
- Head:** Rugged, back pull out design, heavy-duty class 30 cast iron with tapered bore design. Automatic lubrication system for dry-running pump.
- Bearings & Frame:** Heavy-duty grease lubricated; frame is heavy-duty class 30 cast iron
- Shaft:** SAE 4140 alloy steel and fitted with a 304 stainless steel shaft sleeve.
- Wear Plate:** Replaceable, class 30 cast iron with abrasion resistant rubber facing to extend service life

10HT-DJDST-4045T Performance Curve



Engine Specifications

- Engine:** John Deere 4045T, 87 hp @ 1,800 rpm
- Type:** 4-cylinder, in-line, 4-cycle, water-cooled, turbo charged, direct-injected, Tier II diesel
- Standard Equipment:** Alternator, radiator, muffler, and exhaust stack with rain protection.
- Displacement:** 275 cubic inches
- Fuel Economy:** .381 lb/hp-hr @ 1,800 rpm
- Safety Shutdowns:** High coolant temperature; Low oil pressure.

Unit Specifications

- Fuel Tank Capacity:** 60 US gallons
- Fuel Consumption:** 3.7 gallons per hour
- Maximum Operating Speed:** 1,800 rpm
- Maximum Operating Temperature:** 212°F
- Maximum Working Pressure:** 78 psi
- Maximum Suction Lift:** 28 feet
- Maximum Casing Pressure:** 88 psi

In the interest of product improvement, Thompson Pump & Manufacturing reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity, Head and Pump Curve are for comparative purposes. Consult engineering data for exact capabilities.
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