IRONCLAD
POWERED BY MERSINO

4” Prime Assisted

Solids Handling Pump

Our 4” solids handling jet pump is designed for high flows to 1,360 gpm and heads to 330 feet. Our quick self-priming pump eliminates the need for a waste hose and the need to fill up the pump housing with water to obtain prime. It also prevents discharge of pumping eluent onto the ground.

*Photos are representational; actual products vary. Additional product plans and specifications may vary from those shown and are subject to in-stock availability.

Features

John Deere 4024TF281-49 engine

Fully automatic, dry priming to 28 feet

High head to 132 feet

Maximum flows to 1200 gpm

Solids handling to 3”

Specifications

Fuel tank capacity: 55 US Gallons

Fuel consumption: 1.68 gph @ 2,200 rpm

Maximum operating speed: 2,200 rpm

Maximum operating temperature: 200 degrees F

Maximum working pressure: 60 psi

Maximum suction lift: 28 feet

Impeller: 8.25” diameter

Engine Specifications

Engine: John Deere 4024T, 37hp@ 2,000 rpm

Type: 4-cylinder, in-line, 4-cycle, water-cooled, turbo-charged, direct-injected, Interim Tier IV diesel

Displacement: 275 cubic inches

Fuel Economy:
+ .392 lb/hp-hr @ 2,200 rpm
+ .386 lb/hp-hr @ 2,000 rpm
+ .381 lb/hp-hr @ 1,800 rpm

Maxium operating time:
+ 32 hours @ 2,200 rpm
+ 39 hours @ 2,000 rpm
+ 50 hours @ 1,800 rpm

Vacuum Pump Specifications

Vacuum pump: Dry, rotary claw, air cooled, oil less, direct drive (5.4 hp)

Casing: Class 30 cast iron

Maximum operating temperature: 200 degrees F

Maximum working pressure: 15 psi

Maximum suction lift: 28 feet

Air handling capacity: 97 SCFM

Construction

Pump casing: Heavy Duty Class 30 cast iron

Impeller: Dynamically balanced, non-clogging, enclosed, CD4MU with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life.

Mechanical Seal: 2.5” run-dry, grease lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Single inside-mounted, non-pusher type with self-adjusting elastomeric bellows. All other components are 304 stainless steel and viton.

Head: back pull out design, heavy-duty class 30 cast iron with tapered bore design

Bearing and Frame: 30 cast iron, heavy duty grease lubricated

Shaft: 17-4 pH stainless steel and fitted with a renewable 416 stainless steel shaft sleeve

We proudly provide specialty-containment and waste-management solutions, with industry-leading service, safety, access and integrity.

Learn more at IRONCLADENVIRONMENTAL.COM

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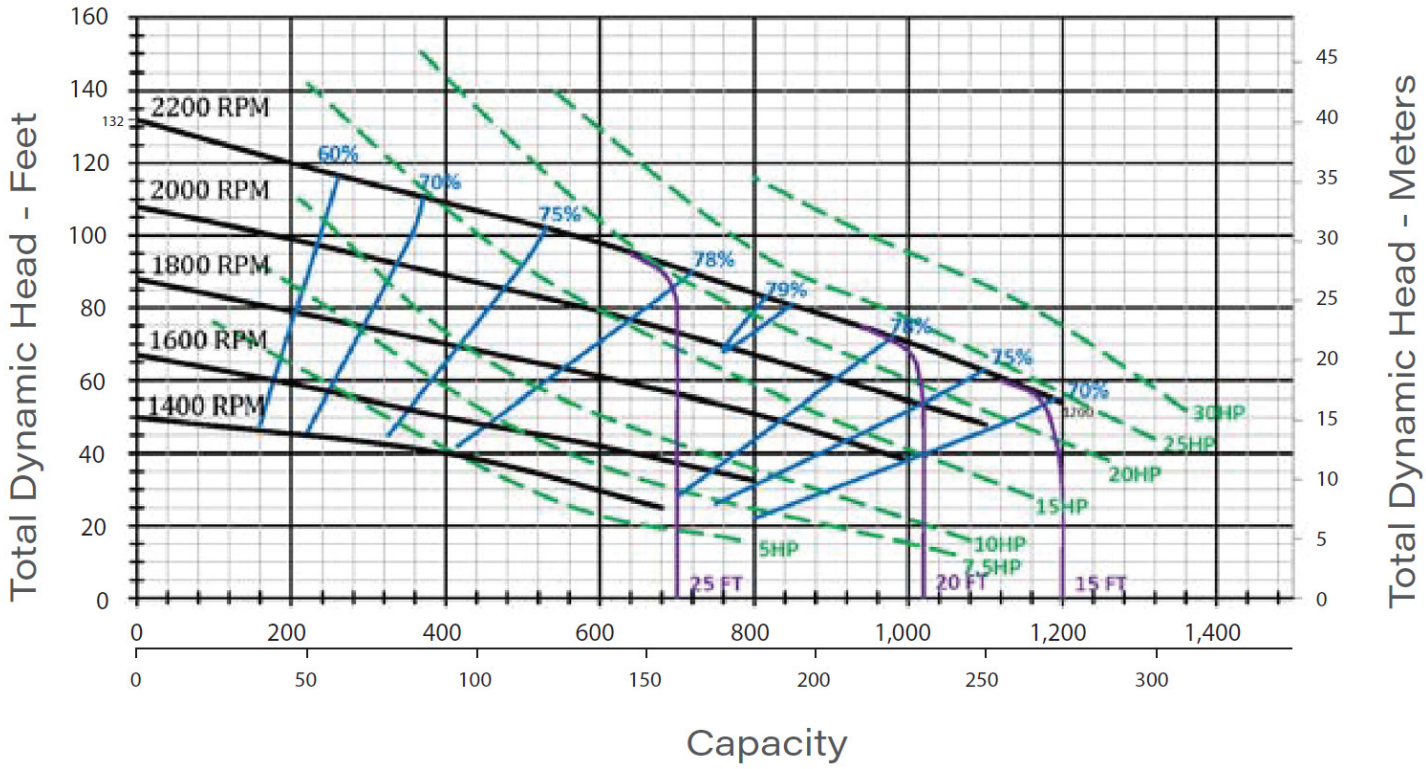
4” Pump Performance Curve



*Some details not shown in all views. Overall dimensions are normal.

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