6” Solids Handling Compressor-Assisted Pump (Dry Prime)

FSA Base Model: Thompson Pump 6JSC

With its heavy-duty construction and fast priming capabilities, this trailer mounted solids handling jet pump leads the industry in construction, industrial and mining applications. The Thompson Pump 6JSC is designed for high flows to 2475 gpm and heads to 164 feet making it perfect for sewage bypass pumping or general construction dewatering.

ENVIROPRIME SYSTEM® with Compressor

- Thompson’s innovative priming system preventing blow-by of sewage, effluent and waste from discharging onto the ground. This system, with Thompson’s compressor priming system, offers mid-range air handling capabilities for quick priming.

Pump End Materials	
Pump Casing	Ductile iron with cleanout port available with suction wear ring or wear plate
Impeller	Dynamically balanced, non-clogging, enclosed or semi-open, 65-45-12 ductile iron with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life; Diameter 11”
Mechanical Seal	2.5” run-dry, oil or grease lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Single inside mounted, non-pusher type with self-adjusting elasto-meric bellows. All other components are 304 stainless steel and viton.
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 is heavy-duty class 30 cast-iron
Shaft	High quality ‘stress-proof’ steel and fitted with a renewable 416 stainless steel sleeve

TECHNICAL SPECIFICATIONS

Suction Size	6 in (15.24 cm)
Discharge Size	6 in (15.24 cm)
Maximum Flow Capacity	2475 gpm (561.83 m³/h)
Maximum Head	164 ft (49.99 m)
Maximum Solids Handling	3 in (7.62 cm)
Maximum Operating Speed	2000 rpm
Maximum Operating Temp.	200 °F (93.33 °C)
Maximum Operating Pressure	71 psi (489.5 kPa)

Fuel Tank	55 gal (208.20 L)
Fuel Consumption @ 2000 rpm	2.97 gph (11.24 L/h)
Best Efficiency Point	80 %

Maximum Operating Times	Fuel Economy
21 hours @ 2000 rpm	0.365 lb/hp-hr @ 2000 rpm
29 hours @ 1800 rpm	0.368 lb/hp-hr @ 1800 rpm
42 hours @ 1600 rpm	0.375 lb/hp-hr @ 1600 rpm

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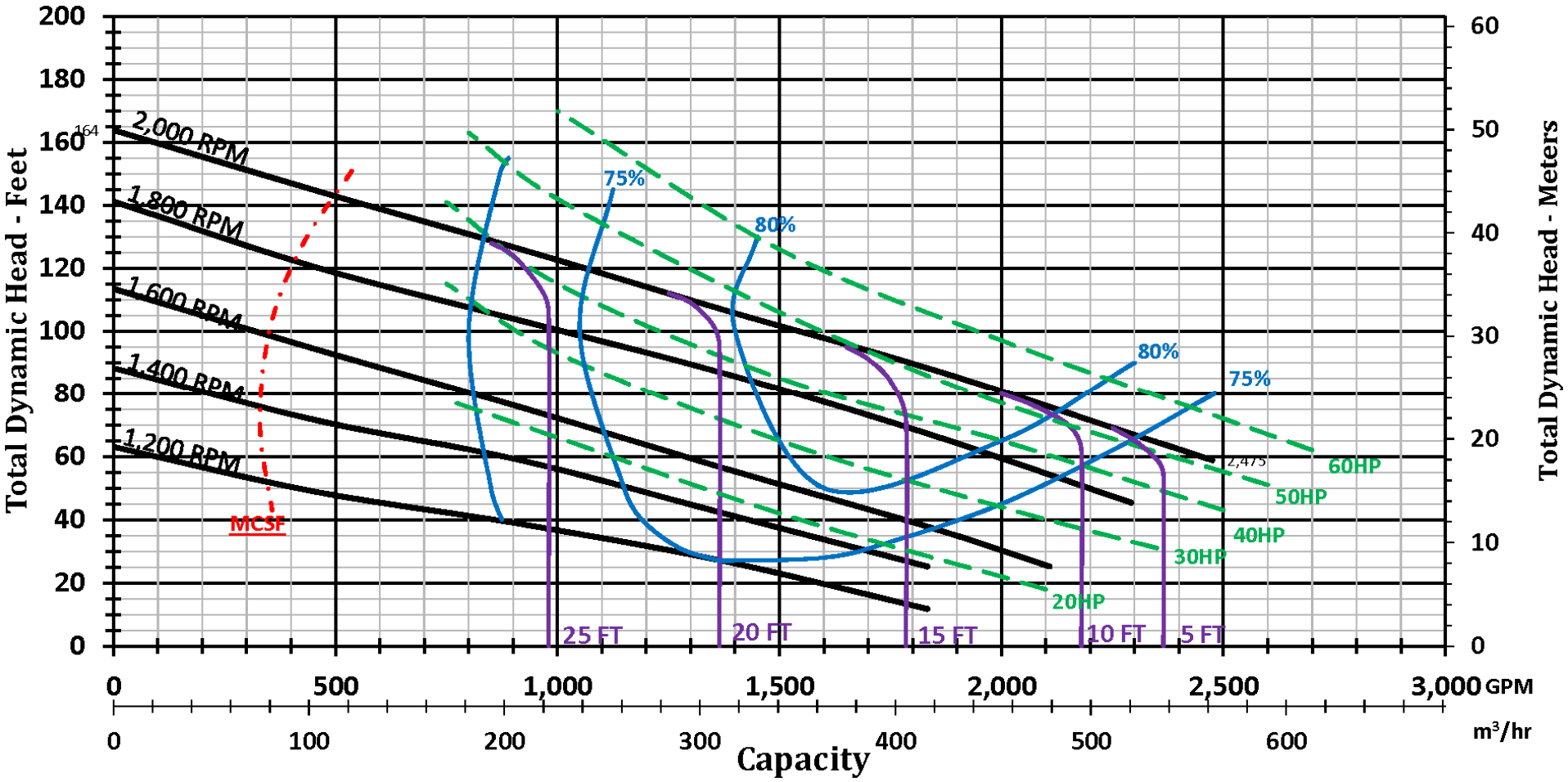
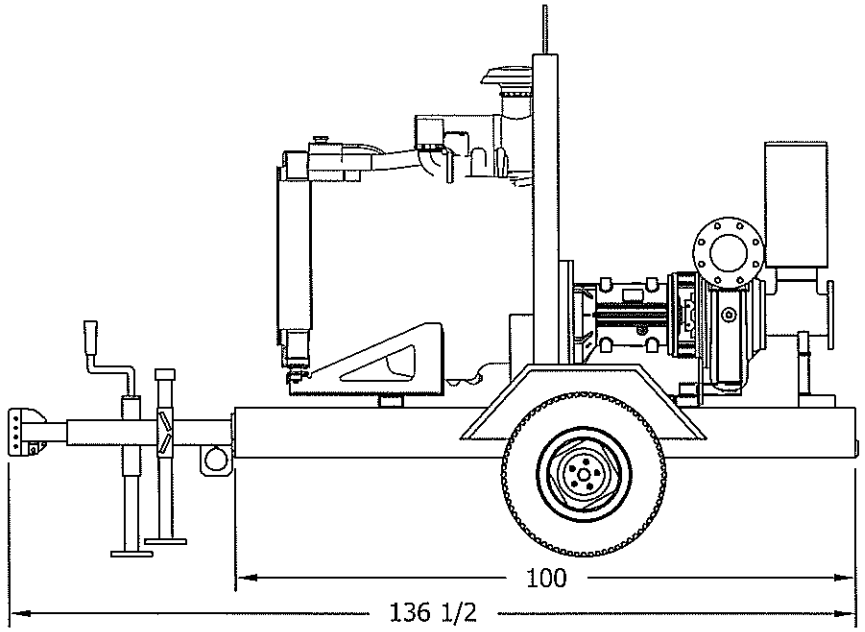
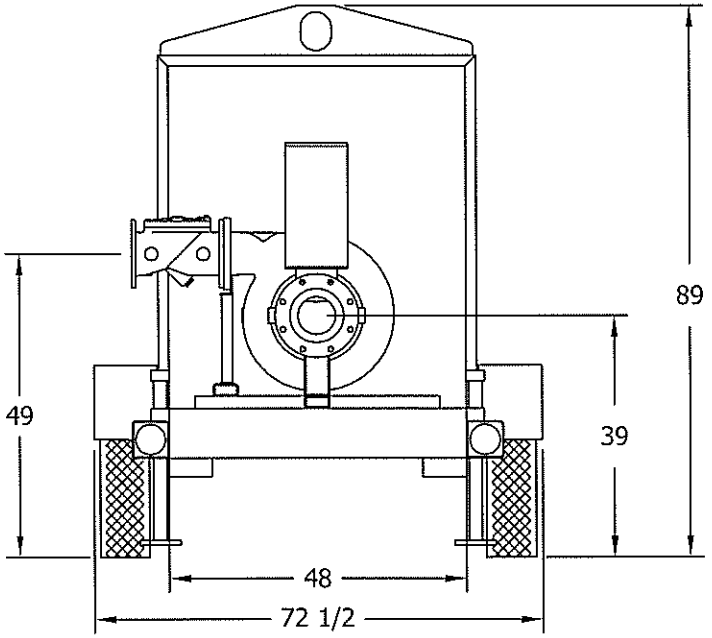


FOR REFERENCE ONLY

NOTES:

1. DIMENSIONS ARE APPROXIMATE. IN THE INTEREST OF PRODUCT IMPROVEMENT, THOMPSON PUMP RESERVES THE RIGHT TO CHANGE DIMENSIONS AND SPECIFICATIONS WITHOUT NOTICE





DRAWN STIETZEL	DATE 4/9/19	TITLE	
CHECKED IA	DATE 4/9/19	Thompson Pump 6JSC	
APPROVED	DATE		

THOMPSON PUMP
EXPERIENCE INNOVATION

SCALE NONE	DO NOT SCALE DRAWING		
SIZE B	SHEET 1 OF 1		
DRAWING NUMBER C-JSCW08-C427	REV 2		

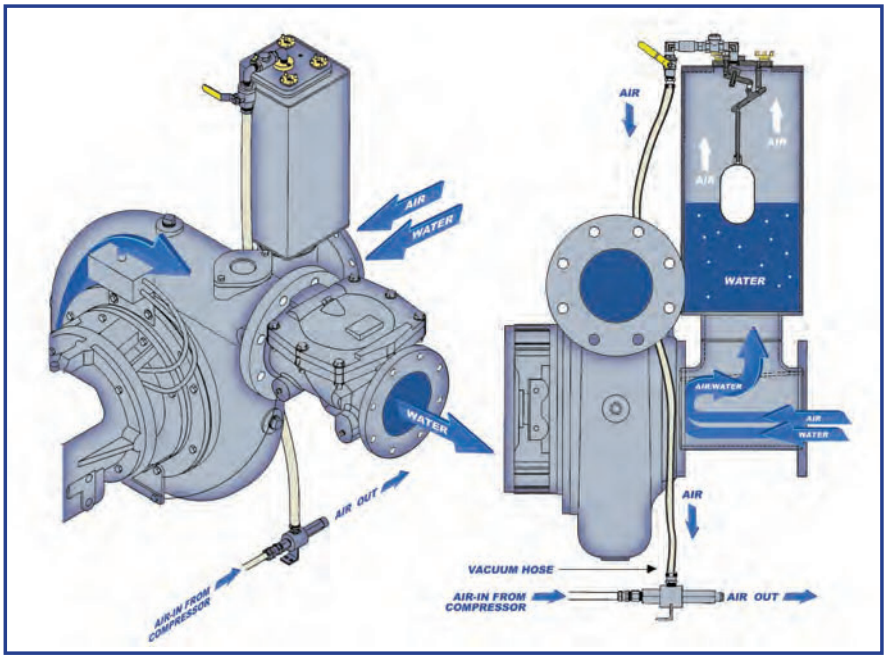
THOMPSON PUMP
Experience Innovation

PRIMING

COMPRESSOR-ASSISTED ENVIROPRIME SYSTEM®

Environmentally friendly priming system that prevents blow-by.

ENVIROPRIME system®



Thompson pumps with the Enviroprime System® are used on many applications where the project site cannot be contaminated by pump fluids, such as sewage or hazardous effluent. The Enviroprime System® provides quick initial priming and consistent re-priming along with the ability to prevent the pumping of effluent discharge, commonly known as "blow-by," into the environment. The Thompson Pump Enviroprime System® also eliminates the need to fill the pump with water to obtain initial prime at start-up.

When pumping sewage, possible leaks must be considered because of the effects to the environment and the fines and penalties that may be assessed by the EPA (Environmental Protection Agency) – not to mention the cleanup costs that are associated with an overflow. The Enviroprime System® provides this peace of mind.

SPECIFICATIONS

The Enviroprime System® is available on pump sizes 2 to 18 inches with capacities up to 11,000 gpm, heads to 430 feet and can handle solids up to 4 inches. The Enviroprime System® is a multi-purpose compressor-assisted system that offers fully automatic priming, re-priming and continuous operation - with minimal maintenance. Not only are Thompson pumps with the Enviroprime System® ideal for sewer bypasses, but they are versatile enough to handle general dewatering excavations, flood drainage, sludge, canals, sumps and almost any fluid transfer.

WORKING PRINCIPLE

This innovative priming system prevents product blow-by from discharging, keeping the surrounding environment clean and safe. On our JSC High Head pumps the Enviroprime System® uses an air compressor to separate air from water, which keeps the pump's venturi from clogging. An air compressor supplies air to a venturi, providing powerful air suction to the chamber located at the pump inlet. The chamber empties air from the pump's suction line causing it to fill with water. When the suction line is fully primed, an internal float rises in the Enviroprime System® chamber, shutting off the air suction. During operation, if prime is lost or air enters the pump suction line, the float automatically actuates, reapplying suction to restore prime or eliminate air pockets. In addition to protecting the environment, the Enviroprime System® reduces the hassle and cost of maintenance. Nothing but air passes through the venturi, therefore there is no screen to maintain, no leak-off tube, and no wear. The venturi comes with a lifetime warranty.

THOMPSON PUMP
Experience Innovation

CONTROL PANELS

RECON CONTROL PANELS

With Telemetry and Expandable I/O Options

MODEL: 2000 AND 2000T

RECON2000

RECON

Thompson Pump **RECON** Control Panels are specifically designed and engineered to work with our complete line of dewatering pumps. Our **RECON**2000 includes the following features:

- Large display, buttons and more shutdown inputs and relays than the competition
- Easily log data and hours for accurate reporting
- Notification alarm for engine off/on, and failure
- 8 Fully programmable relays and 76 selectable features, including Pump RPMs, Pump Failure, and more
- RS-485 communication ports for communication with SCADA and additional alarm equipment
- Remote operation using pressure/level transducer with backup float switch operation
- Warning alarm event history stores up to 64 events
- Can maintain flow and head parameters using pre-set engine RPM for unattended operation
- Tracks oil and filter usage with automatic alerts when replacement is recommended
- Diesel engine warm up and cool down cycle included
- Interim and Final Tier 4 diesel engine alerts with info showing level of soot in the diesel particulate filter (DPF) and if engine and/or filter needs regeneration
- Includes real-time clock with battery back-up
- Ability to monitor fault codes and warnings

Orion Registrar, Inc.

Thorough and Fair Auditing

Certificate of Certification

This is to certify the Quality Management System of:

Thompson Pump and Manufacturing Co., Inc.

4620 City Center Drive
Port Orange, FL 32129 USA

Has been assessed by Orion Registrar and found to be in compliance with the following Quality Standard:

ISO 9001:2015

The Quality Management System is applicable to:

Designer and Manufacturer of Innovative Pumps and Dewatering Equipment for the Construction, Public Works, Energy and Mining Markets.

The Certification period is from

May 3, 2019 to June 26, 2022

This certification is subject to the company maintaining its system to the required standard, and applicable exceptions, which will be monitored by Orion.

Client ID: 1329 Certificate ID: 1016369

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY

Paul M. Burck, President — May 3, 2019 Date

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

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