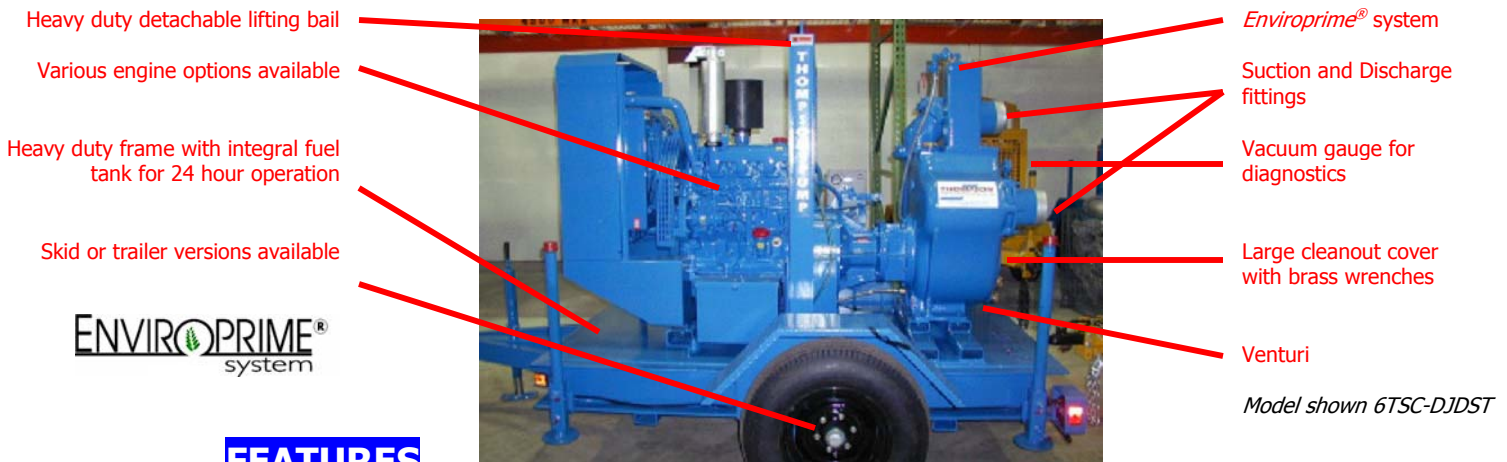


# TSC SERIES *ENVIROPRIME*<sup>®</sup> COMPRESSOR-ASSISTED DRY PRIME TRASH PUMPS



*Thompson's compressor-assisted Trash Pumps are designed to handle dry prime applications effectively and efficiently, with the revolutionary environmentally safe Enviroprime<sup>®</sup> system*

Thompson *Enviroprime*<sup>®</sup> trash pumps are engineered to provide consistent and dependable service on the most difficult job sites. These pumps are used in a wide variety of applications including open pumping and sewage bypassing where moderate air handling is required. The pumps are capable of pumping liquids with high abrasives or solids as large as 3.35" in diameter. *Enviroprime*<sup>®</sup> trash pumps are specifically designed to prevent fluids, such as sewage, from entering the venturi and eventually spilling onto the ground, making the *Enviroprime*<sup>®</sup> environmentally friendly and safe.



## FEATURES

### **All the features of Thompson's TS Series Open Trash/Sewage Pumps and more...**

- Alternate self-priming and net priming capability
- Automatic dry priming and re-priming to 30 feet
- Environmentally safe
- Able to operate during 'snore' conditions
- Positive suction head capability
- Heavy duty cast iron construction for long life
- Large solid handling capacity
- High flow and high head capabilities
- 2 or 3-vane ductile iron impellers available
- Impeller inspection cover allows easy access for cleaning and repair without disturbing suction piping
- Cast iron rubber-lined, abrasion resistant wear plate
- Dry running abrasion-resistant tungsten carbide mechanical seal with Viton elastomers
- Safety shutdown control panel standard
- Various diesel engine and electric motor options
- Simple low-cost maintenance

## APPLICATIONS

**Construction:** Dewatering excavations, canals and sumps; bypassing sewers and bodies of water; groundwater dewatering; water supply from wells or canals; hosing down concrete casings; extended sumping; wellpoint dewatering

**Civil Engineering:** Sewage pumping; flood drainage; fire fighting; recovery of hazardous liquids

**Waste Treatment:** Sewer bypasses; pumping polluted hot or corrosive wastewater containing sand, mud or solids in suspension; dosing neutralizing liquids; pumping out settled sludge

**Mining:** Wash-down operations; tailings; high head/high volume applications

**Agricultural:** Surface irrigation; liquid manure oxygenation; transfer and spraying fertilizers or manure

**Industrial:** Transfer of neutral, acid or alkali clean or dirty liquids containing sand, mud or solids in suspension; low viscosity petroleum products

*Note: Alternate pump end materials available for corrosive liquids*

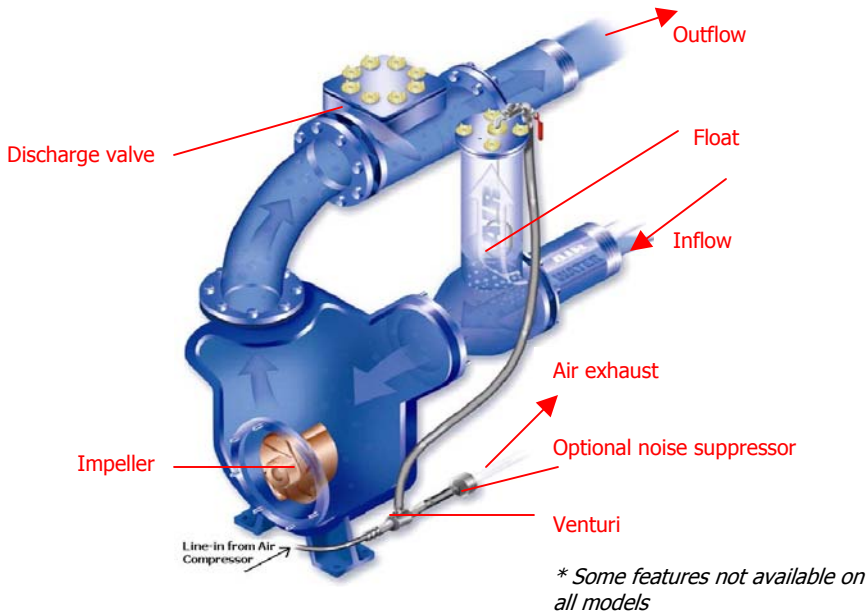
In the interest of product improvement, we reserve the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity and Head are shown for comparative purposes. Consult engineering data for exact capabilities.

Thompson Pump & Manufacturing Co., Inc. 4620 City Center Drive, Port Orange, Florida, USA 32119  
Phone (800) 767-7310 • Fax (386) 761-0362 • [www.thompsonpump.com](http://www.thompsonpump.com)

# TSC SERIES *ENVIROPRIME*<sup>®</sup> COMPRESSOR-ASSISTED DRY PRIME TRASH PUMPS



## ENVIROPRIME<sup>®</sup> FEATURES AND BENEFITS



- Prevents discharge of pumping effluent onto the ground
- Eliminates the need for a venturi waste hose
- Increases the service life of the venturi by preventing abrasive and caustic materials from passing through
- Reduces the possibility of plugging the venturi with the pumping fluid, causing the dry priming system to become inoperative
- Eliminates the need for screens which typically clog, causing the dry priming system to become inoperative
- Allows for optional noise suppressor on projects where noise is a consideration



## WORKING PRINCIPLE

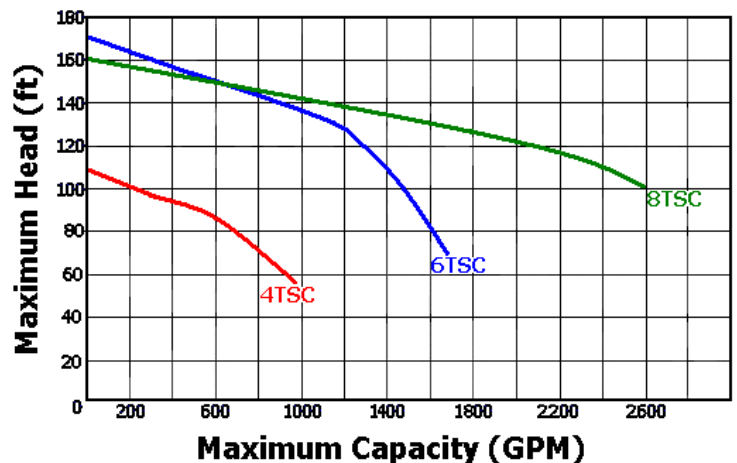
Thompson Pump's exclusive *Enviroprime*<sup>®</sup> dry priming system works in conjunction with the compressor/venturi priming system to prevent carry over, or blow-by, of the pumping fluid into the venturi and onto the ground. The compressor delivers compressed air to the venturi, which evacuates air from the pump suction line. As the air is evacuated from the suction line, the pumping fluid begins to travel into the pump and the *Enviroprime*<sup>®</sup> system.

When the pumping fluid reaches the *Enviroprime*<sup>®</sup> system, the internal float will rise, closing off the air valve. When the air valve is closed, the pumping fluid will drop in the *Enviroprime*<sup>®</sup> system preventing any carry over into the venturi. The *Enviroprime*<sup>®</sup> system also allows the priming system to remove air while the pump is pumping. As air is introduced into the suction line during pumping, the float will lower, allowing the priming system to evacuate the ensuing air. Once the air is evacuated, the cycle will repeat automatically.

## MODEL SPECIFICATIONS

Unit Model	Size (In.)	Maximum* Capacity (GPM)	Maximum* Head (Ft.)	Maximum Solids (In.)
4TSC	4	930	112	3.00
6TSC	6	1,750	172	3.00
8TSC	8	2,600	160	3.35

\* @ 2,200 RPM except 4TSC @ 2,000 RPM



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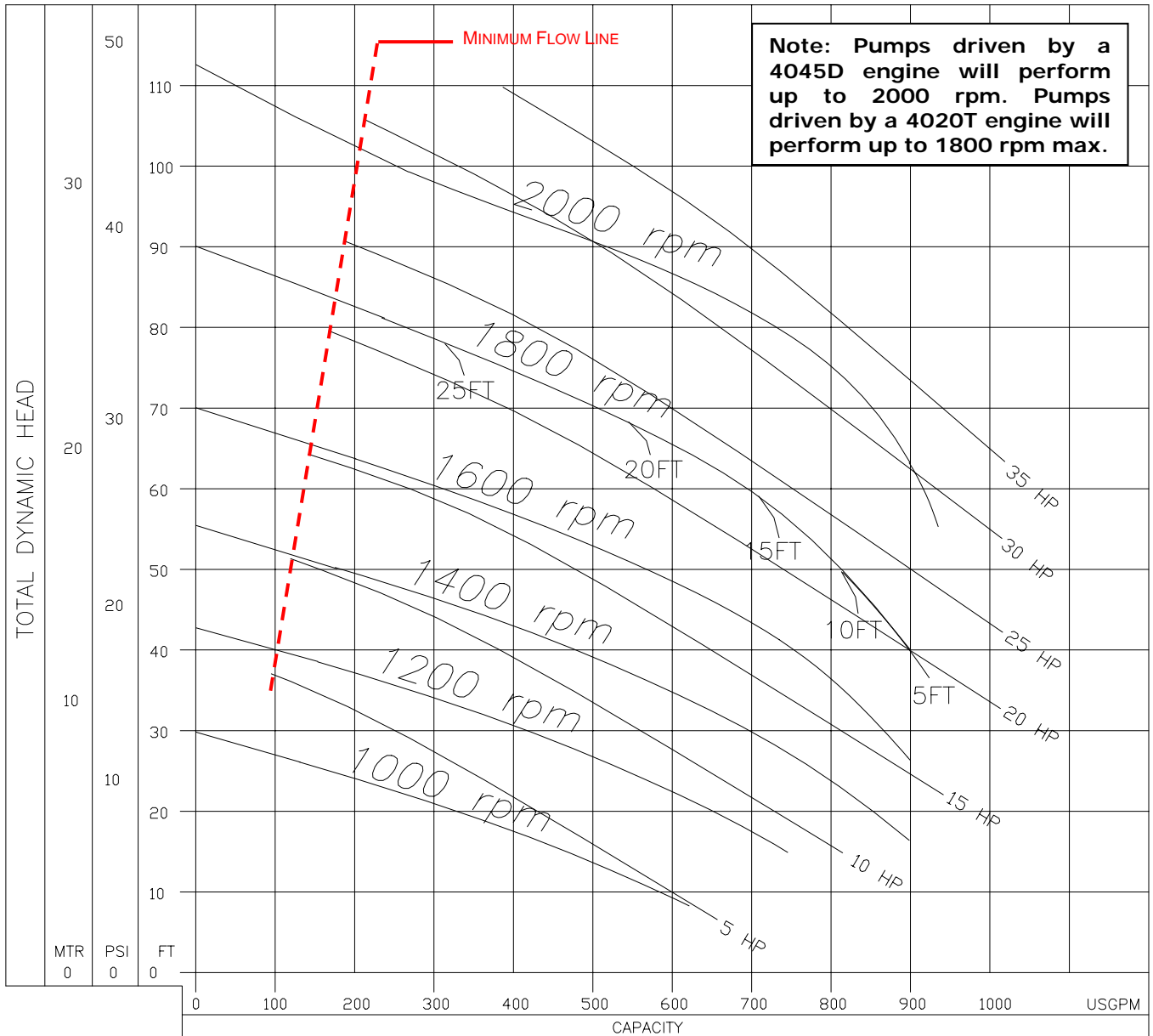
Locations nationwide  
(866) PUMPS-12

## Product Performance Curve

# THOMPSON MODEL 4TSC OPEN TRASH SEWAGE PUMP

January, 2001

Impeller Dia.	Style	No. Vanes	Solids Dia.	Suction	Discharge	Weight
9.74"	SEMI-OPEN	2	3.0"	4"	4"	440 LBS.



<p>TEST CONDITIONS:          Fluid: Water          S.G.: 1.0          Temperature: 68°F (20°C)          Altitude: Sea Level          Viscosity: 31.5 SSU</p>	
<p>Pump Speed Ratings:      Continuous Duty: 1800 rpm      Intermittant Duty: 2000 rpm</p>	

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