



Name: 4" Compressor-Assisted Solids Handling Pump

Model: 4JSC-LHP-SK

With its heavy-duty cast-iron construction and fast priming capabilities, the Thompson 4JSC-LHP-SK solidshandling end suction centrifugal pump leads the industry in construction, industrial and municipal applications. The Thompson 4JSC-LHP-SK is designed for moderate flows up to 1,060 gpm and heads up to 86 feet making it perfect for sewage bypass pumping or general construction dewatering.



Consult factory for other versions & options including site trailers, sound attenuation, etc.

Pump End Materials	
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 8.25" x 10°.
Mechanical Seal	Dry-running, grease or oil lubricated with Tungsten Carbide rotating and Silicon Carbide stationary seal faces. Single inside mounted, non- pusher type with self-adjusting elastomeric bellows. 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	Heavy-duty grease lubricated to carry both axial and radial loads.
Bearing Frame	Heavy-duty class 30 cast iron.
Shaft	SAE 1144 fitted with a 416 stainless steel shaft sleeve.

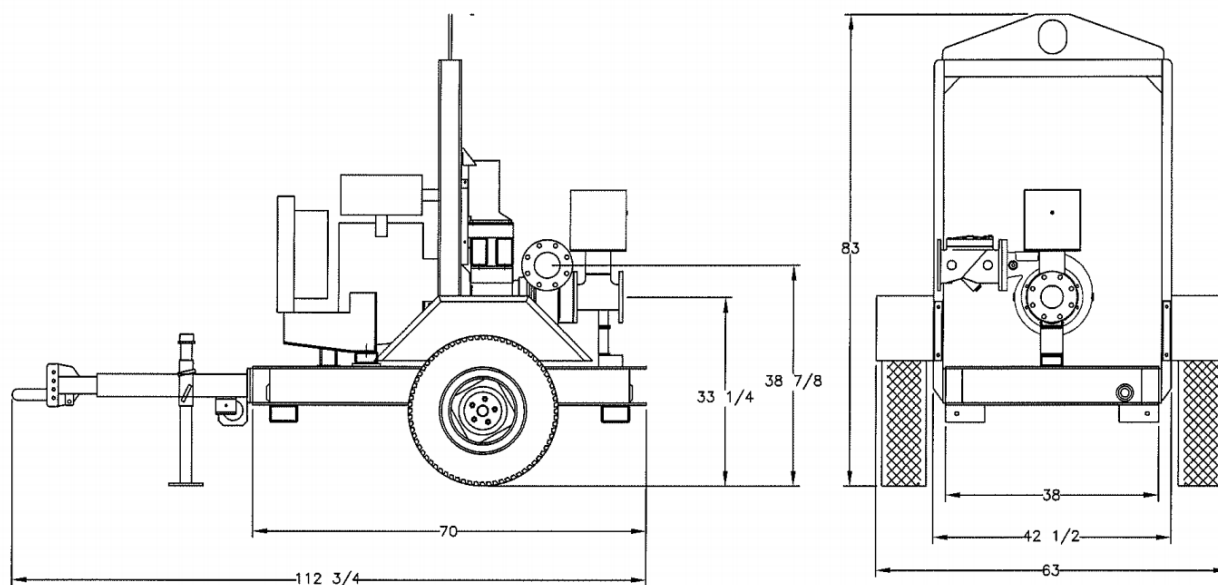
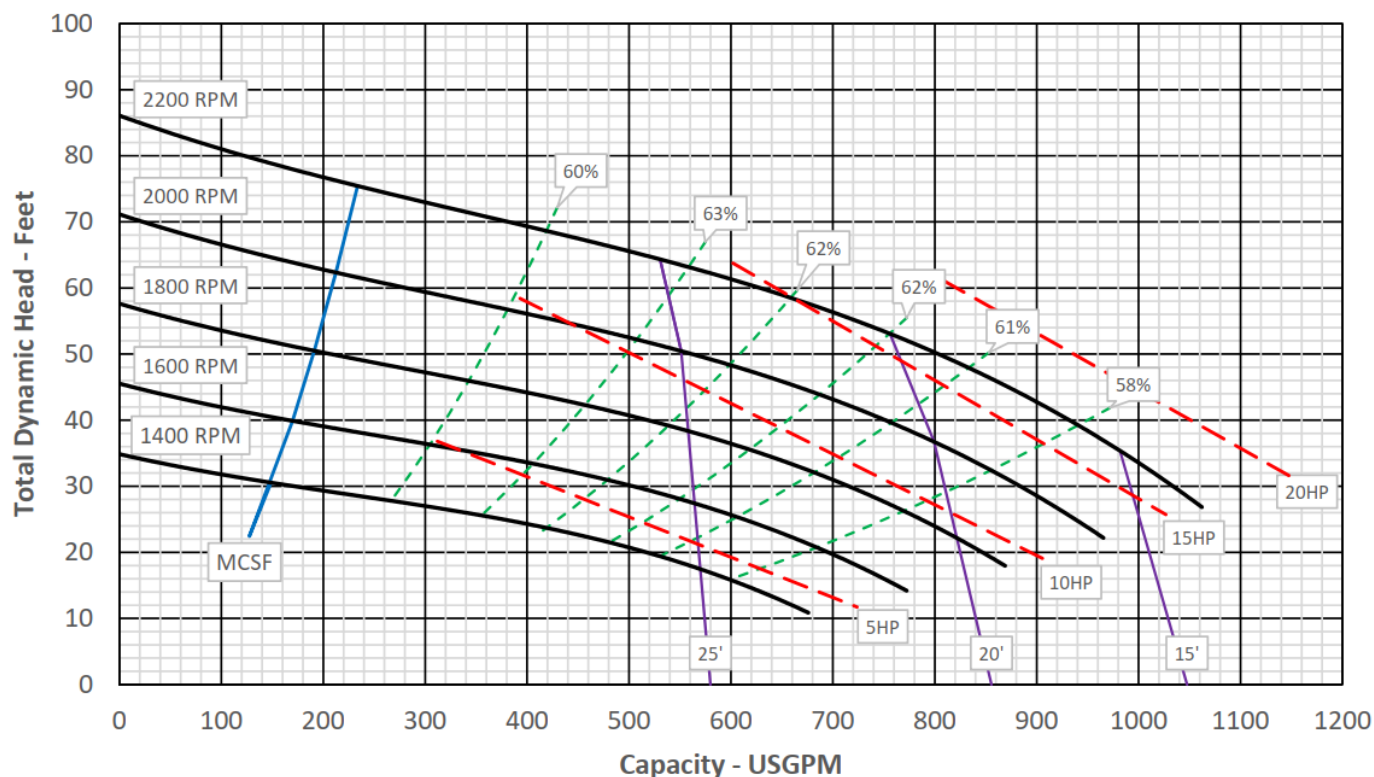
Technical Specifications			
Suction Size	4 in (10.16 cm)	Approximate Dry Weight	4,950 lbs (2,245.28 kg)
Discharge Size	4 in (10.16 cm)	Best Efficiency	63%
Maximum Solids Handling	3 in (7.62 cm)	Maximum Operating Speed	2,200 rpm
Maximum Operating Temperature	200° F (93.33° C)	Maximum Operating Pressure	37.23 psi (256.69 kPa)

Fuel Tank Options*		Maximum Run Times: Yanmar	
Modular (M)	50 Gal	69 Hours	
Double-Wall (D)	34 Gal	47 Hours	
Modular Large Capacity (X)	150 Gal	207 Hours	
Double-Wall Large Capacity (Z)	75 Gal	103 Hours	

*Contact factory for fuel tank sizes not listed above.

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Yanmar 3TNV88F—24 hp @ 2,400 rpm				
Typical Operating Speed	2,200 rpm	Engine Speed	Fuel Economy	Run Time*
Maximum Head	86 ft (22.86 m)	2,200 rpm	0.378 lb/hp-hr	44 hrs
Maximum Flow Capacity	1,060 gpm (493.72 m ³ /hr)	2,000 rpm	0.369 lb/hp-hr	55 hrs
Maximum Fuel Consumption	1.13 gph (4.28 L/hr)	1,800 rpm	0.362 lb-hp-hr	69 hrs

*Engine run times calculated based on a 50 gallon fuel tank.

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Thompson Pump's Silent Knight Canopy is designed to fully contain the pump and engine in a lockable enclosure. This enclosure will reduce noise levels at, or below 74 dBA when measured from a distance of 7 meters. With a modular design, this canopy can be added to many units after the unit has already been in operation.



Materials

Outer Shell	18 Gauge Galvaneal Steel
Frame	14 Gauge Galvaneal Steel
Insulation	8 pound mineral wool with laminate face. 1 1/2" thick, 1" thick open-cell foam sound collars around piping
Interior Lining	Perforated aluminum 0.05 thick, 30 holes per in ² , 1/8" diameter
Coating	1-3 mil powder coating available in a variety of colors
Latches	Vector "T" handle key locking with adjustable cam (M27-LF-20-363-22P)
Hinges	Long hinge strap (M27-LF-20-363-21-2) Short hinge strap (M27-LF-20-363-21-3)
Fasteners	<ul style="list-style-type: none"> • Hex head bolts 304 stainless • Hex nuts fine thread 304 stainless • Flat washers 304 stainless • Hex head sheet metal screws or self drilling screws 304 stainless • Aluminum pop rivets • All other bolts, screws or fasteners should be 304 stainless • Hinge grease fittings 304 stainless

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