



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000126480 ONE TIME PURCHASE OF A 12" X 12" HORIZONTAL
SEWAGE PORTABLE PUMP FOR THE JEFFERSON PARISH
DEPARTMENT OF SEWERAGE**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

05-Jun-2019 11:14:42 AM



Bid Number 50 – 00126480

**ONE TIME PURCHASE OF A 12" X 12" HORIZONTAL SEWAGE
PORTABLE PUMP FOR THE JEFFERSON PARISH DEPARTMENT OF
SEWERAGE**

JUNE 06, 2019 AT 2:00 PM

ATTENTION VENDORS!!!

**Please review all pages and respond accordingly, complying with all provisions
in the technical specifications and Jefferson Parish Instructions for Bidders and
General Terms and Conditions. All bids must be received in the Purchasing
Department by the bid due date and time.**

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053
Donna M Evans
DMEvans@Jeffparish.net
504-364-2691**

DATE: 5/22/2019

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00126480

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

BUYER: DMEVANS@jeffparish.net

BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETN, LA 70053 UNTIL 2:00 PM, 6/06/2019 AND PUBLICLY OPENED THEREAFTER.

For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only. All bids will be publicly opened at the West Bank location.

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting www.jeffparishbids.net to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

Jefferson Parish adheres to the Louisiana Code of Governmental Ethics, contained in Louisiana Revised Statutes Annotated, R.S. 42:1101, et seq. Vendor/Proposer by this submission, warrants that there are no "conflicts of interest" related to this procurement that would violate applicable Louisiana Law. Violation of the Louisiana Code of Governmental Ethics may result in rescission of contract, permit or licenses, and the imposition of fines and/or penalties, without contractual liability to the public in accordance with applicable law.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing via email to the buyer's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

PROTESTS: Only those vendors that submitted a bid in response to this solicitation may submit a protest in writing to the Director of the Purchasing within 48 hours of bid opening. The Purchasing Director will review it in connection with the Parish Attorney's Office which will then respond in writing as soon as possible.

PREFERENCE: Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA – R.S. 38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

13,15

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(l), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise stated in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations or warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session – Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

See Page 1 for Conflicts of Interest Statement

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO X

MAXIMUM ESCALATION PERCENTAGE REQUESTED N/A %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 6-6-20

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

120 Days ARO

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

N/A

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: Thompson Pump and Manufacturing Company Inc.

ADDRESS: 4620 City Center Drive

CITY, STATE: Port Orange, FL ZIP: 32129

TELEPHONE: (386) 767-7310 FAX: (386) 761-0362

EMAIL ADDRESS: dperry@thompsonpump.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: N/A

NUMBER: _____

NUMBER: _____

NUMBER: _____

TOTAL PRICE OF ALL BID ITEMS: \$ 88,382.00

AUTHORIZED SIGNATURE: 

David Perry

Printed Name

TITLE: Municipal Sales Manager

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00126480

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	EA	<p>ONE TIME PURCHASE OF 12 INCH X 12 INCH HORIZONTAL SEWAGE PORTABLE PUMP FOR THE JEFFERSON PARISH DEPARTMENT OF SEWERAGE</p> <p>0001 - Pump, Portable, 12 inch enviroprime high head pump, Thompson Silent Knight trailer mounted Part no. 12JSCJ-DJDST-45H-MC</p> <p>TO INCLUDE THE FOLLOWING:</p> <p>Auto start/stop control panel - electronic adder</p> <p>Please have pumps shipped to:</p> <p>Jefferson Parish Sewerage Department Attention: Morris Sapia Eastbank Sewerage Lift Stations Division 4901 Jefferson Hwy Suite B Jefferson, LA 70121</p>	\$ 88,382.00	\$ 88,382.00

SPECIFICATIONS

12 inch X 12 inch HORIZONTAL SEWAGE PORTABLE PUMP

JEFFERSON PARISH DEPT. OF SEWERAGE

- **GENERAL DESCRIPTION**

- The unit shall be a 12 inch x 12 inch compressor-assisted horizontal sewage pump driven by a water-cooled diesel engine. The pump shall be fully automatic, self-priming from dry conditions and capable of handling moderate volumes of air, water, and solids. Pump unit shall include a Silent Knight sound attenuation enclosure covering both the engine and pump for noise abatement. The unit shall be a Thompson model 12JSCJ-DJDST-45H-MC, or approved equal.
- The complete pump package shall be manufactured in a plant that is registered to ISO 9001:2008 and a copy of the Certificate shall be provided with the bid submittal. Bid not submitted with the required Certificate will be rejected.
- The pump shall be designated and manufactured in conformance with Contractors Pump Bureau/AEM pump standards.

- **JOHN DEERE DIESEL ENGINE**

- The engine shall be a Tier III EPA compliant four (4) cylinder four (4) cycle water-cooled turbo-charged diesel engine, John Deere model 4045HF485-154, or approved equal. It shall be capable of producing 139 continuous duty horsepower at 1,800 rpm.
- The engine shall have an industrial type battery with 175-amp hour rating and minimum 990 cold-cranking amps, with 175 amp reserve, mounted in a lockable frame.
- A 12-volt starter and alternator charging system shall be provided.
- An industrial silencer muffler shall be provided.
- Governor shall be an electronic control type. Engine speed shall be adjustable to operate the pump between maximum and minimum design operating speeds.
- Engine shall have safety shutdown switches for low oil pressure and high coolant temperature.
- A control panel shall be provided in an enclosure mounted on rubber isolators to reduce vibration.
- Control panel shall contain the following instrumentation and controls: throttle control, key switch, tachometer, hour meter, oil pressure gauge, and temperature gauge.

- **CENTRIFUGAL PUMP**

- The centrifugal pump shall be a horizontal end suction solids handling centrifugal type.
- The pump casing shall be constructed of class 30 cast iron with back pullout

- design.
- The impeller shall be fully enclosed, 12.88 inch diameter x 27 degree and constructed of 65-45-12 ductile iron.
 - Suction wear ring allows minute clearance between impeller and volute. This ring can be replaced saving the volute from excessive wear. Wear ring shall be of peripheral type requiring no adjustment, and constructed of 65-45-12 ductile iron.
 - Mechanical seal shall be a John Crane Tungsten Carbide vs. Silicon Carbide mechanical type with viton elastomers, and stainless steel spring and hardware.
 - The seal chamber shall include a dished backplate to remove solids and abrasive material away from the seal area and purge air and gas pockets. An oil reservoir shall be provided for automatically feeding lubricant to the seal faces, permitting indefinite dry running.
 - Shaft shall be constructed of stress proof steel, machined and polished to transmit full drive output.
 - Shaft sleeve shall be AISI416 stainless steel. Sleeve designed to be renewable with O-ring and positively locked to prevent rotation on the shaft.
 - Bearing frame shall be constructed of class 30 cast iron.
 - Bearings shall be of sufficient size to withstand the radial and axial thrust loads incurred during service. Bearings shall have a minimum L-10 bearing life of 100,000 hours. Bearings shall be grease lubricated.
 - Centrifugal pump shall be capable of delivering 7,300 gallons per minute at 24 feet of total dynamic head at 1,800 rpm.
 - Centrifugal pump shall be capable of generating a closed discharge valve (shutoff) head of no less than 100 feet at 1,800 rpm.
 - Centrifugal pump shall be capable of handling up to 3.0 inch diameter non-compressible spherical solids.
 - The pump inlet shall be equipped with an 12 inch 125# ANSI flange
 - The pump outlet shall be equipped with a 12 inch 125# ANSI flange
 - The pump shall be furnished with a liquid-filled vacuum gauge for system diagnostics.
 - A 12 inch FNPT strainer shall be provided.

- **PRIMING SYSTEM**

- The priming system shall be fully automatic, eliminating the need to pre-fill the pump casing with water to achieve initial prime.
- An air separation chamber shall be provided to prevent any carryover of the pumping fluid through the ejector and onto the ground. Units not meeting this requirement will not be accepted.
- An air separation chamber shall contain a single float assembly mounted on a steel plate, which can be easily removed as a unit without special tools.
- The air separation chamber shall not include any screens which can clog, creating a maintenance nuisance and cause the priming system to fail.
- The compressor shall be an engine mounted, gear driven unit. No belt-driven compressors will be accepted.

- The compressor shall be an industrial version pressure-lubricated type. Splash-lubricated compressors will not be accepted.
 - The compressor shall contain a pressure relief valve for overpressure protection.
 - The priming system shall contain an in-line serviceable discharge 100% unrestricted flow area, with low head loss flapper valve design; and, a non-return valve which can be readily cleaned and repaired without having to disconnect the discharge piping. Ball type discharge check valves will not be accepted.
 - The venturi shall be constructed of bronze and be of modular design, allowing for replacement of individual components. The Venturi shall be remote mounted on the frame for ease of removal and inspection.
 - The priming system shall incorporate a manual valve to permit the pump to operate under positive suction head conditions.
 - The priming system shall be capable of automatically priming the pump with a 28-foot static suction lift with no water in the pump or suction piping.
 - Priming systems that incorporate vacuum pumps or mechanical diaphragm priming systems will not be accepted.
- **MOUNTING FRAME**
 - The complete power unit shall be mounted on a combination frame/single wall fuel tank constructed of tubular steel, approximate length 110 inches, approximate width 48 inches, with a fuel capacity of 127 US gallons.
 - The frame shall incorporate an integral lifting bail capable of lifting the entire unit.
 - Fuel tank shall have two clean-out ports located at opposite ends of the tank.
 - Fuel tank shall have a removable basket strainer mounted in the fill port and a lockable cap.
- **DUAL AXLE TRAILER**
 - The complete pump set shall be factory mounted on a site trailer meeting NHTSA, DOT Part 571 standards 108, 119, and 120.
 - Trailer shall include the following:
 - 10,400 lb. capacity dual spring axle.
 - Electric brakes
 - Four ST225/75R15-D tires.
 - Removable tongue assembly with 3 inch adjustable lunette eye hitch and safety chains.
 - Removable steel diamond plate fenders.
 - One top wind swivel 5,000 lb. capacity 15 inch retractable height tongue-mounted jack stand.
 - Two front and two rear stabilizing stands.
 - Optional DOT light package including stop, turn, tail and side marker lights, and license bracket.
- **SOUND ENCLOSURE**

- The entire unit including the pump and engine shall be completely enclosed in a lockable enclosure. Units not meeting this requirement will not be accepted.
- The enclosure shall reduce operating noise at or below 70 dBA measured at 7 meters @ full speed (EPA Standard 40CFR204 is 76 dBA @ 7 meters). Units not meeting this requirement will not be accepted.
- The enclosure shall be constructed with a modular 14-gauge galvanized steel frame and 2 inch thick reinforced galvaneel panels. Fiberglass or plastic enclosures will not be accepted.
- The individual panels shall be constructed of a sandwich construction of an 18-gauge solid galvaneel outer shell, 1.5 inch thick 8 lb. density mineral wool fill, encapsulated with an aluminum foil moisture barrier, and 0.050 gauge perforated aluminum inner liner, type 3003-H14 with a mill finish. Air vents and openings are lined with open-cell foam utilizing high temperature adhesive.
- The enclosure shall contain a minimum of 5 lockable-hinged doors; three sides, and two rear doors to allow unrestricted access to all compartments for servicing, without having to disassemble and remove panels. The enclosure shall contain a modular lift off panel on top. Enclosures that must be disassembled in order to facilitate routine maintenance will not be accepted.
- The enclosure shall contain two rear doors that can be opened and permit complete access to the pump and priming system for routine maintenance, without having to disconnect the suction or discharge piping.
- Enclosure shall utilize 1 inch thick open-cell foam surrounding all piping penetrations.
- The enclosure shall be fully detachable as a single unit to facilitate major repairs, such as replacing the engine or pump.
- The enclosure shall utilize 1-3 mil powder coating instead of other paint applications.

- **PAINTING**

- A minimum 1-2 mil thick layer of Industrial Acrylic Enamel primer shall be applied to the entire pump set prior to the finish coat. A minimum 1-2 mil thick layer of TPM Blue Industrial Acrylic Enamel Paint shall be applied over the primer coat.

- **WARRANTY**

- The manufacturer of the pumping unit shall warrant for a period of one year from the date of shipment that the entire unit and all equipment therein shall be free from defects in design, material, and workmanship.

- **TESTING**

- The complete pump set shall be factory tested according to ANSI/HI 1.61994 by a certified quality technician. The pump shall be sound tested according to ISO 3744, ANSI/HI9.4 and CPB Sound Level Measurement Standard. A test report shall be submitted to Jefferson Parish, prior to acceptance.

- **MANUALS**

- One complete set of operation and maintenance manuals, stored inside a rainproof document box, shall be furnished with the unit.

Corporate Headquarters

4620 City Center Drive

Post Office Box 291370

Port Orange, FL USA 32129

Ph: (386) 767-7310 Fx: (386) 761-0362

E-Mail: sales@thompsonpump.com

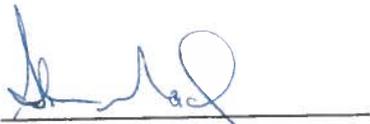
www.thompsonpump.com



Corporate Resolution

Be it known that, David Perry is Municipal Sales Manager for Thompson Pump and Manufacturing Company, Inc. and is authorized to represent and act as its legal agent and is authorized to sign bid documents, contracts and other agreements that may arise in the normal course of business for activity relating to sales, service and rental of Thompson Pump products.

Dated this 29th day of June 2017 by Christopher Thompson, President of Thompson Pump and Manufacturing Company, Inc. , a Florida Corporation.



Shawn Mackey, Corp Secretary

Christopher Thompson, President

A full line of pumping solutions:

Wet prime • Dry prime • Sound Attenuated • Hydraulic Submersible • Diaphragm • Rotary Wellpoint • High Pressure

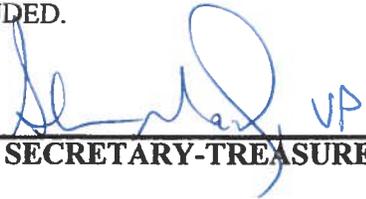
CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF
Thompson Pump and Manufacturing Company Inc.
INCORPORATED.

AT THE MEETING OF DIRECTORS OF Thompson Pump and Manufacturing Company Inc.
INCORPORATED, DULY NOTICED AND HELD ON June 29th, 2017,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT David Perry, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.



SECRETARY-TREASURER

11-6-18

DATE

Non-Public Works Bid Affidavit Instructions

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

Instruction sheet may be omitted when submitting the affidavit

Non-Public Works Bid

AFFIDAVIT

STATE OF Florida

PARISH/COUNTY OF Volusia

BEFORE ME, the undersigned authority, personally came and appeared: _____

David Perry, (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized legal agent of Thompson Pump & Manufacturing Company Inc. (Entity), the party who submitted a bid in response to Bid Number 50-00126480, to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.


Signature of Affiant

David Perry
Printed Name of Affiant

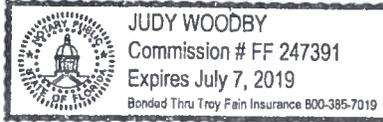
SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 5th DAY OF June, 2019.

Judy Woodby
Notary Public

Printed Name of Notary

Notary/Bar Roll Number

My commission expires _____





JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

April 24, 2019

CHANGES FOR THE JEFFERSON PARISH PURCHASING DEPARTMENT

- **Purchasing will be moving back to the General Government Building the week of May 6, 2019.**
- **All Public Bid Openings (2 pm response time) after the week of May 6, 2019 will be held in Jefferson Parish Purchasing Department, 200 Derbigny Street, Suite 4400, Gretna, LA, 70053.**
- **All advertised bid submissions (2 pm) and all non-advertised bid submissions (11 am) are due at the 200 Derbigny Street, Suite 4400 address or via on-line through Central Bidding until the date and time the bid is to open. For convenience, the bid submission can be delivered to our satellite office in the Yenni Bldg, 1221 Elmwood Park Blvd, Suite 404, Jefferson, LA, 70123 until the day before the bid opening date and time.**
- **Always refer to the Invitation to Bid instructions for pre-bid information (if applicable). Bidders should reference the "Additional Requirements" section of the bid instructions and/or the "Important Notice to Bidders" included in the bid package for specific requirements to respond accordingly.**
- **Proof of insurance in the form of a current certificate evidencing coverages is required with bid submission from all bidders.** Bidders must read the insurance requirement attachment included in each bid package for specific instructions. Upon contract execution, successful bidder must produce final insurance certificates in accordance with Jefferson Parish insurance requirements.

For more information, please call Jefferson Parish Purchasing at 504-364-2678.

Joseph S. Yenni Building – 1221 Elmwood Park Blvd., Ste. 404, Jefferson, LA 70123

Office 504.364.2678

General Government Bldg. – 200 Derbigny St – Suite 4400 - Gretna, LA 70053

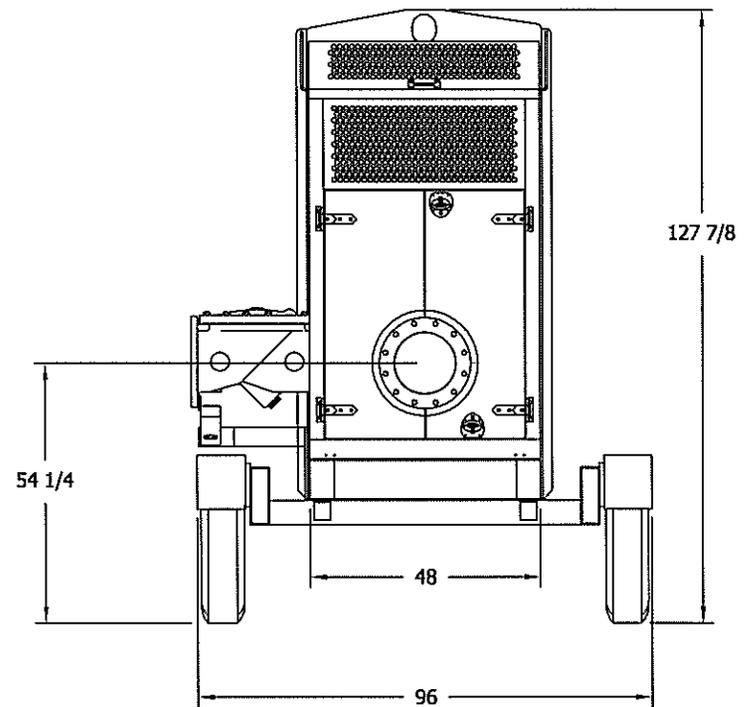
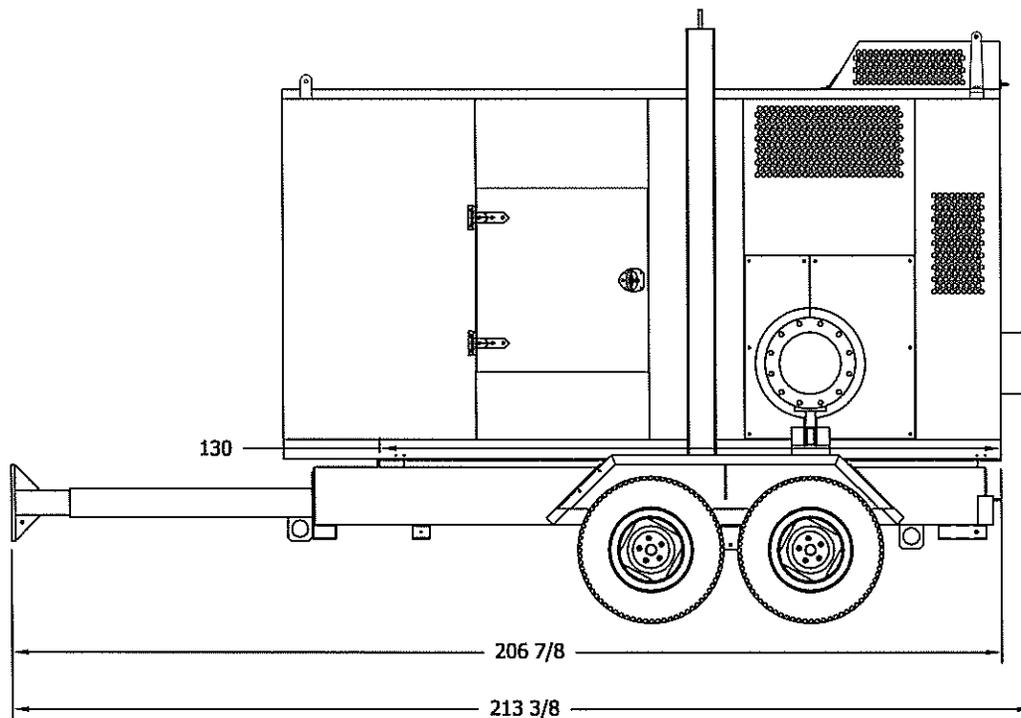
Office 504.364.2678

Email: Purchasing@jeffparish.net Website: www.jeffparish.net

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	11/8/18
CHECKED	IA	DATE	11/8/18
APPROVED		DATE	

TITLE
 12JSCJ-DJDS-45HC04-MC W/TPM 14K SEPARATE TRAILER CONCEPTUAL DRAWING



SCALE	NONE	DO NOT SCALE DRAWING
SIZE	B	SHEET 1 OF 1
DRAWING NUMBER	C-JSCW08-C392	REV 1

With its heavy-duty cast-iron construction, ability to dry-prime and re-prime automatically, this end-suction centrifugal pump leads the industry in construction, industrial and mining applications. The Thompson 12JSVJ-DJDST-45HC04-MC ENVIOPRIME® Solids Handling Jet Pump is designed for high flows to 7,300 gpm and moderate heads to 102 feet making it perfect for sewage bypass pumping or general construction dewatering.



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

ENVIOPRIME SYSTEM® with OVT

- Thompson's innovative priming system preventing blow-by of sewage, effluent and waste from discharging onto the ground. This system, with Thompson's OVT system, offers 97 SCFM air handling capabilities for quick priming.

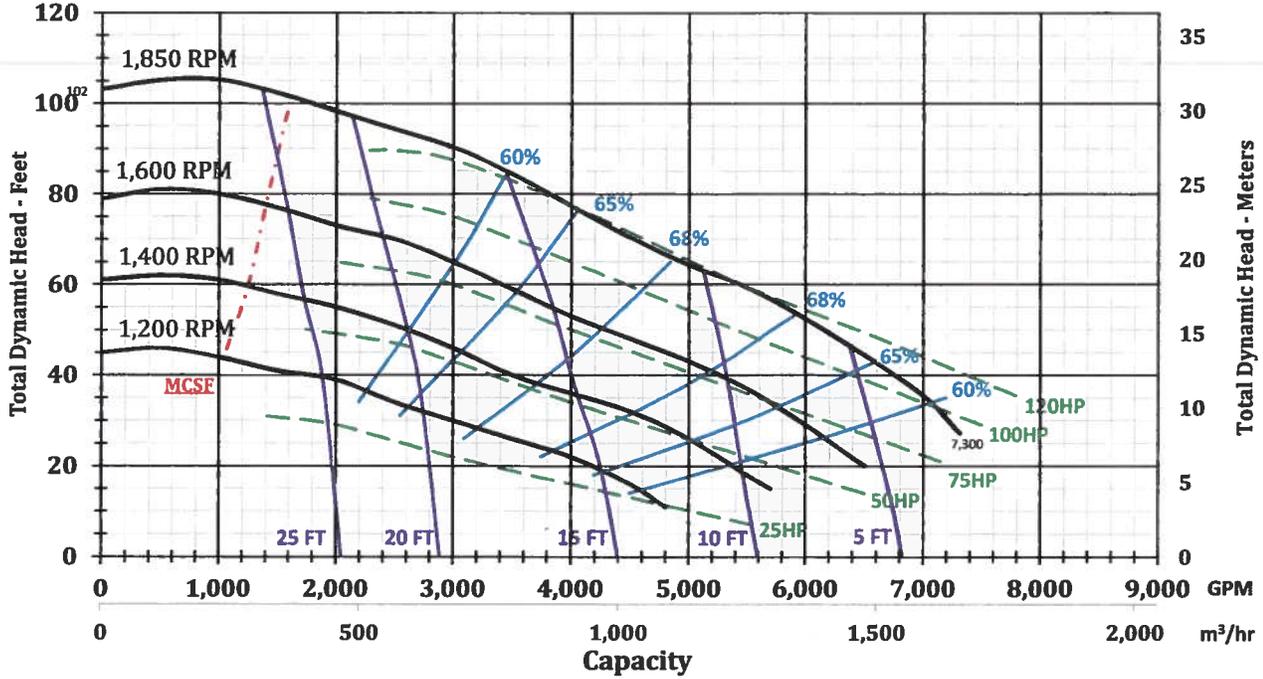
Materials	
Pump Casing	Heavy-duty class 30 cast-iron
Impeller	Dynamically balanced, non-clogging, Semi-Open, 65-45-12 ductile-iron, with rear-equalizing vanes to reduce axial loading and prolong seal and bearing life; diameter 12.88" x 27°
Mechanical Seal	3" run-dry oil lubricated with Tungsten Carbide 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.
Bearings & Frame	Heavy-duty bearing, grease lubricated to carry both axial and radial loads, Heavy-duty class 30 cast-iron frame
Suction Wear Plate	Replaceable, 65-45-12 ductile iron
Shaft	'Stress-proof' steel and fitted with a renewable 416 stainless steel shaft sleeve
Head	Rugged, back pull out design, heavy duty class 30 cast iron with tapered bore design

TECHNICAL SPECIFICATIONS

Suction Size	12" (30.48 cm)	Approximate Dry Weight	6270 lbs (2844 kg)
Discharge Size	12" (30.48 cm)	Fuel Tank	127 Gal (480 L)
Maximum Flow Capacity	7,300 gpm (1658 m ³ /h)	Fuel Consumption @ 1,800 rpm	6.5 GPH (24.6 L/h)
Maximum Head	102 ft (31.08 m)	Best Efficiency Point	68 %
Maximum Solids Handling	3" (7.62 cm)	Maximum Operating Times	Fuel Economy
Maximum Operating Speed	1,850 rpm	18 hours @ 1,800 rpm	.338 lb/hp-hr@1,800 rpm
Maximum Operating Temp.	200°F (93.33°C)	21 hours @ 1,600 rpm	.334 lb/hp-hr@1,600 rpm
Maximum Operating Pressure	41 psi (278 kPa)	25 hours @ 1,400 rpm	.331 lb/hp-hr@1,400 rpm

Hydraulic

Model: 12JSCJ
 Solids Handling Straight Centrifugal Pump
 Impeller Diameter: 12.88" x 27° (Enclosed)



Feet x 0.305 = Meters Inches x 25.4 = Millimeters Gallons per Minute x 0.227 = Cubic meters per Hour Gallons per Minute x 3.785 = Liters per Minute HP x 0.746 = KW

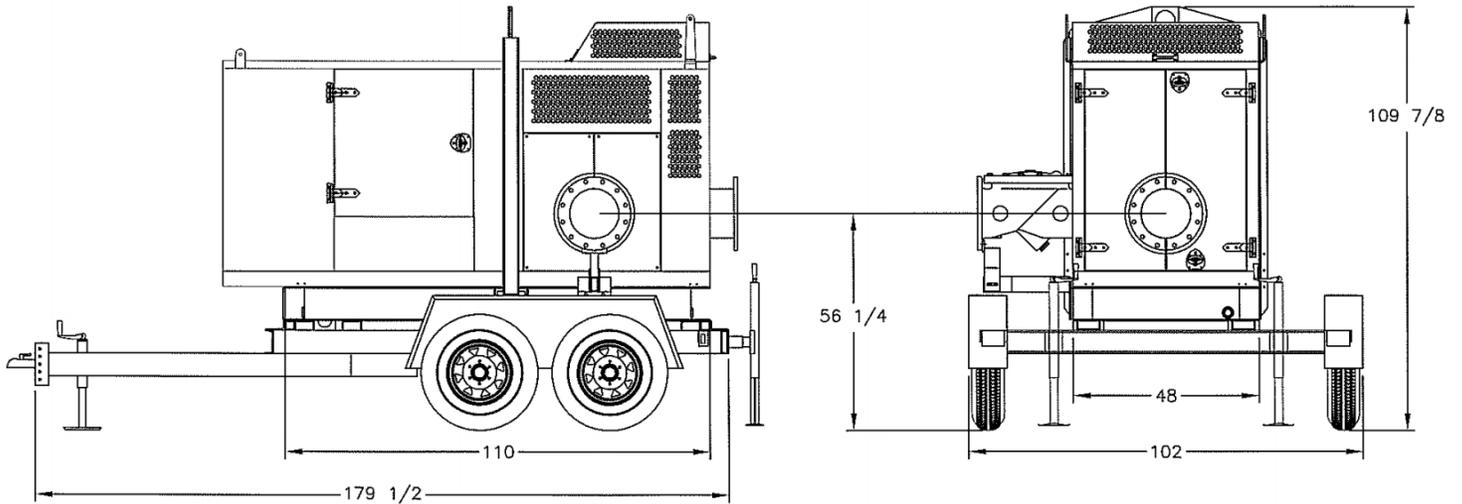
Model:	12JSCJ
Revision:	B
Date:	7/21/2015

Test Conditions:	
S.G.:	1.0
Temperature:	70°F
Viscosity:	31.5 SSU
Altitude:	Sea Level

4 Vane Impeller / Single Volute
3.0" Solids Diameter
12" Suction / 12" Discharge



Tests were conducted according to Hydraulic Institute ANSI/HI 1.6-1994 Standards.





JOHN DEERE

ENGINE PERFORMANCE CURVE

Rating: Gross power
Application: Continuous

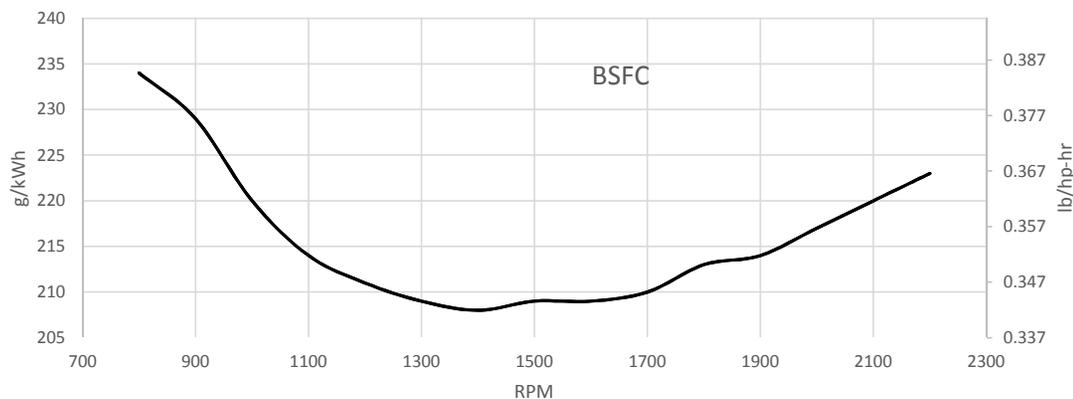
Power Bulge 0%
Torque Rise 20%

PowerTech™ PWL 4.5L Engine

Model: 4045HFC04

139 hp @2200 rpm

104 kW @2200 rpm



STANDARD CONDITIONS

Air Intake Restriction 12in.H2O (3kPa)

Exhaust Back Pressure 30in.H2O (7.5kPa)

Gross Power Guaranteed within + or - 5% at SAEJ1995 and ISO 3046 conditions:

Air Inlet Temperature = 77°F (25°C)

Barometer = 29.31 in.Hg (99 kPa)

Fuel Inlet Temperature = 104°F (40°C)

Fuel Specific Gravity @ 60 °F (15.5 °C) = 0.853

CONVERSION FACTORS:

Power: kW = HP x 0.746

Fuel: 1 Gal = 7.1 lb, 1 L = kg

Torque: N·m = lb-ft x 1.356

All values are from currently available data and are subject to change without notice.

Notes:1) This Performance Curve provides installation requirements necessary for the engine to emit at its certified emission levels. For additional information necessary to meet applicable regulatory requirements, refer to the John Deere Emissions-related Installation Instructions (AG01): <https://power.deere.com/wps/myportal/jdps/products/engines/apguidelines>.

Designed/Calibrated to meet:

Certified By:

CARB
EPA Tier 4
EU Stage IV

12-Oct-18

Ref: Engine Emission Label

Performance Curve: 4045HFC04_A

Engine Installation Criteria

General Data

Engine Model	4045HFC04	
Number of Cylinders	4	
Bore	106 mm	4.2 in.
Stroke	127 mm	5.0 in.
Displacement	4.5 L	275 in. ³
Compression Ratio	17.0:1	
Valves per Cylinder, Intake/Exhaust	2/2	
Firing Order	1-3-4-2	
Combustion System	Direct Injection	
Engine Type	In line, 4-Cycle	
Aspiration	Turbocharged & air-to-air aftercooled	
Engine Crankcase Vent System	Open	

Physical Data

Length	870 mm	34.3 in.
Width	650 mm	25.6 in.
Height	1050 mm	41.3 in.
Weight, with oil&no coolant (Includes engine, flywheel housing, flywheel&electrics)	550 kg	1213 lb
Center of Gravity Location, X-axis From Rear Face of Block	265.0 mm	10.4 in.
Center of Gravity Location, Y-axis Right of Crankshaft	10.0 mm	0.4 in.
Center of Gravity Location, Z-axis Above Crankshaft	140.0 mm	5.5 in.
Max. Bending Moment about Main Bearings Front and Rear	480 N·m	355 lb-ft
Max. Allowable Static Bending Moment At Rear Face of Flywheel Housing with 5-G Load	814 N·m	602 lb-ft
Thrust Bearing Load Limit Forward, Intermittent	4000 N	899 lb
Thrust Bearing Load Limit Forward, Continuous	2200 N	495 lb
Thrust Bearing Load Limit Rearward, Intermittent	2000 N	450 lb
Thrust Bearing Load Limit Rearward, Continuous	1000 N	225 lb
Max. Continuous Damper Temp	#N/A °C	#N/A °F
Max. ECU Vibration, All Axis	6 gRMS	
Max. Torisonal Vibration, Front of Crank	0.25 DDA	
Max. Engine Torisonal Vibration in Overspeed	0.4 DDA	

Electrical System

Min. Instantaneous Cranking	50 rpm	
Mn. Steady State Cranking	120 rpm	
Starter Rolling Current, 12V @32 °F (0 °C)	450 amps	
Starter Rolling Current, 24V @32 °F (0 °C)	250 amps	
Starter Rolling Current, 12V @-22 °F (-30°C)	700 amps	
Starter Rolling Current, 24V @-22 °F (-30°C)	400 amps	
Min. Voltage at ECU during Cranking, 12V	6 volts	
Min. Voltage at ECU during Cranking, 24V	10 volts	
Max. Voltage Drop, Battery to Starter	0.8 volts	
Max. Allowable Start Circuit Resistance, 12V	0.0012 Ohm	
Max. Allowable Start Circuit Resistance, 24V	0.002 Ohm	
Max. ECU Temperature	105 °C	221 °F
Max. VTG Actuator Surface Temp	#N/A °C	#N/A °F
Max. Air Throttle Electrical Actuator Temperature	#N/A °C	#N/A °F
Max. Harness Temperature	125 °C	257 °F
Max. Alternator Temperature	105 °C	221 °F
Max. Starter Temperature	120 °C	248 °F
Max. Temperature, All Other Electronics	125 °C	257 °F

Charge Air Cooling System

Air-to-Air Heat Rejection	17.0 kW	967 BTU/min
Compressor Discharge Temperature @ 77°F (25°C) Ambient Air	158 °C	316 °F
Intake Manifold Pressure	144 kPa	20.9 psi
Compressor Discharge Temperature @ 117°F (47°C) 80 kPa Barametric pressure	198 °C	388 °F
Max. Temperature Out of Charge Air Cooler @ All Ambient Conditions	88 °C	190 °F
Max. CAC System Volume	25 L	26 Qt
Max. Pressure Drop through CAC	10 kPa	40 in. H ₂ O
Min. Pressure Drop through CAC	5 kPa	20 in. H ₂ O
Max. Temperature Out of Charge Air Cooler @77°F(25°C) Ambient Air	56 °C	133 °F
Min. Temperature Out of Charge Air Cooler @77°F(25°C) Ambient Air	48 °C	118 °F
Max. Bending Moment on Compressor Outlet	3.5 N·m	3 lb-ft
Max. Shear on Compressor Outlet	2.5 kg	6 lb

Performance Curve: 4045HFC04_A

Engine Installation Criteria

Cooling System

Engine Heat Rejection	67.0 kW	3810 BTU/min
Coolant Flow @ 10 kPa External Restriction	302 L/min	80 gal/min
Coolant Flow @ 40 kPa External Restriction	280 L/min	74 gal/min
Max. Auxiliary Coolant Flow	25 L/min	7 gal/min
Thermostat Start to Open	85 °C	185 °F
Thermostat Fully Open	97 °C	207 °F
Engine Coolant Capacity	8.5 Liter	9.0 quart
Min. Coolant Fill Rate	12.0 L/min	3.2 gal/min
Max. Water Pump Inlet Pressure	235 kPa	34 psia
Min. Pump Inlet Pressure @ 203°F (95°C) Coolant	103 kPa	15 psia
Min. Pump Inlet Pressure @ Max. Top Tank Temperature	165 kPa	24 psia
Min. External Coolant Restriction	#N/A kPa	#N/A psi
Max. External Coolant Restriction	40 kPa	6 psi
Max. Top Tank Temperature	113 °C	235 °F
Max. Top Tank temperature 95% of Operating Hours	103 °C	217 °F

Exhaust System

Exhaust Flow	17.9 m ³ /min	632 ft ³ /min
Exhaust Temperature	475 °C	887 °F
Max. Allowable Exhaust Restriction	18 kPa	71 in. H ₂ O
Max. Bending Moment on Turbo Outlet	7.4 N·m	5.5 lb-ft
Max. Shear on Turbine Outlet	2.5 kg	6 lb
Exhaust Filter Size	2 DOC / 3 SCR; Gen 1.0	
Exhaust Filter Pressure Drop (Clean)	12.6 kPa	51 in. H ₂ O
Min. Mixing Length, Outlet to Exhaust Filter	NA	
Max. Bending Moment on Exhaust Filter Inlet	172 N·m	127 lb-ft
Max. Bending Moment on Exhaust Filter Outlet	85 N·m	63 lb-ft
Max. Exhaust Leakage Rate, Engine to Exhaust Filter @30kPa	5.0 L/min	1.3 gal/min
Max. Temperature Drop, Engine to exhaust Filter	30 °C	54 °F

Fuel System

ECU Description	L34 Controller	
Fuel Injection Pump	Denso HP3	
Governor Type	Electronic	
Total Fuel Flow	48 kg/hr	106 lb/hr
Fuel Consumption	23.2 kg/hr	51 lb/hr
Fuel Temperature Rise, Inlet to Return	35 °C	63 °F
Min. Fuel Inlet Pressure	-30 kPa	-121 in. H ₂ O
Max. Fuel Inlet Pressure	#N/A kPa	#N/A in. H ₂ O
Max. Fuel Return Pressure	20 kPa	80 in. H ₂ O
Min. Fuel Return Pressure	0 kPa	0 in. H ₂ O
Max. Fuel Inlet Temperature	75 °C	167 °F
Fuel Filter @98% Efficiency	2 mic	

Lubrication System

Oil Pressure at Rated Speed	370 kPa	54 psi
Oil Pressure at Low Idle	150 kPa	22 psi
Max. In-Pan Oil temperature	138 °C	280 °F
Max. Crankcase Pressure	1 kPa	4 in. H ₂ O

Air Intake System

Engine Air Flow	8.1 m ³ /min	286 ft. ³ /min
Air Mass Flow	550 kg/hr	1213 lb/hr
Maximum Allowable Temperature Rise, Ambient Air to Engine Inlet	8 °C	15 °F
Max. Air Intake Restriction, Clean Air Clearer	3.75 kPa	15 in. H ₂ O
Max. Air Intake Restriction, Dirty Air Clearer	6.25 kPa	25 in. H ₂ O
Air Cleaner Efficiency	99.9 %	

Performance Curve: 4045HFC04_A

Engine Installation Criteria

Performance Data

Rated Power	104 kW	139 HP
Rated Speed		2200 rpm
Max. Fast Idle Speed		2400 rpm
Breakway Speed		2250 rpm
Power Bulge Speed		rpm
Peak Torque Speed		1600 rpm
Low Idle Speed		800 rpm
Rated Torque	451 N·m	334 lb-ft
Peak Torque	540 N·m	400 lb-ft
Torque Rise		20 %
BMEP, Rated	1260 kPa	183 psi
BMEP, Peak Torque	1490 kPa	216 psi
Attitude Capability	1890 m	6200 ft
Friction Power @Rated Speed	24.7 kW	33 HP
Air Fuel Ratio		23.1:1
Noise @1 m		91 dB(A)
Power Bulge		0 %

Curved Data

Engine Speed	Power		Torque		BSFC	
	rpm	kW	hp	N·M	lb-ft	g/kWh
800	27	36	320	236	234	0.385
900	36	49	384	283	229	0.376
1000	46	62	443	327	220	0.362
1100	55	74	477	352	214	0.352
1200	64	86	510	376	211	0.347
1300	72	96	527	389	209	0.344
1400	79	105	536	396	208	0.342
1500	85	114	540	399	209	0.344
1600	90	121	540	399	209	0.344
1700	95	127	534	394	210	0.345
1800	98	132	521	384	213	0.350
1900	101	135	507	374	214	0.352
2000	103	138	490	362	217	0.357
2100	104	139	471	348	220	0.362
2200	104	139	451	333	223	0.367

DEF Data

Load Factor	Engine Speed	DEF Consumption*		Percent of Diesel Consumption**
		g/kWh	lb/hp-hr	
%	RPM			%
100	2200	11.1	0.0183	3.7
Peak Torque	1600	10.2	0.0168	3.7

*DEF conversion factor: 1.087 kg/l (9.071 lb/gal)

**Percent of diesel consumption by volume at 100% load and peak torque

Performance Curve: 4045HFC04_A

Limited Warranty

Warranty – Conditions of Sale

This **LIMITED WARRANTY** is extended only to the original consumer/purchaser of products manufactured by Thompson Pump & Mfg., Co., Inc., P.O. Box 291370, Port Orange, Florida, 32129-1370. Telephone number: 386-767-7310.

Thompson Pump & Mfg., Co., Inc, hereinafter referred to as "Thompson", warrants the products it manufactures to be free of defects in materials and workmanship. The warranty extends only to the original consumer/purchaser, hereinafter referred to as "Consumer", and commences on the date of sale to said Consumer and remains in effect for a period of twelve (12) months.

THIS WARRANTY DOES NOT COVER:

- a. Adjustment or replacement of maintenance items and wear parts, such as but not limited to, seals, bearings, lubrication and filters.
- b. Any work performed to correct malfunction caused by misuse, negligence or disregard of Thompson's written instructions concerning installation, operation and maintenance of its products.
- c. Additional service work performed above that which is required to satisfy warranty requirements.
- d. Transportation charges, haul-out, travel time, loss of use, or other consequential charge or damage.
- e. Any damage caused by sand or abrasive materials, chemical deposits, corrosion, hazardous waste or material, acts of God or other outside forces beyond the control of Thompson.
- f. Engines, electric motors and other items not of our manufacture. Warranty on those items, if any, is the warranty of the manufacturer of such items.
- g. Repairs or replacement made without authorization from Thompson or repairs made other than at a service facility designated by Thompson.
- h. Delivery schedules are not covered by any warranty terms, and all dates given are approximate and subject to change without notice.

In the event of any breach of the warranty, the original Consumer must deliver or ship the defective unit or parts, freight prepaid, to the factory or any of the Thompson authorized parts and service centers, providing prior permission is obtained from the factory. Thompson agrees that it will replace or repair (at our option) any such unit or parts where the defect results from a breach of its warranty without charge to the original Consumer, provided said defect occurred within the warranty period. Thompson or the authorized service repair centers will not be responsible for the cost of the units or parts and the shipment of said unit or parts to or from Thompson's plant or service centers.

Thompson's warranty obligation with regard to equipment not of its own manufacture is limited to the warranty actually extended to Thompson by its suppliers. Should a failure of such motor or engine occur during the warranty period, the original Consumer must notify Thompson Pump & Mfg., Co., Inc., Port Orange, Florida and follow the instructions given. **THIS WARRANTY DOES NOT COVER REPAIRS OR REPLACEMENT MADE WITHOUT NOTIFICATION TO THOMPSON PUMP & MFG., CO., INC.**

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND OF ANY OTHER OBLIGATION ON THE PART OF THE SELLER. NO AGENT, EMPLOYEE OR REPRESENTATIVE OF THE SELLER HAS ANY AUTHORITY TO BIND THE SELLER TO ANY AFFIRMATIONS, REPRESENTATION OR WARRANTY CONCERNING THE PRODUCT SOLD UNDER THIS WARRANTY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. IMPLIED WARRANTIES, WHEN APPLICABLE, SHALL COMMENCE UPON THE SAME DATE AS THE EXPRESS WARRANTY ABOVE AND SHALL, EXCEPT FOR WARRANTIES OF TITLE, EXTEND ONLY FOR THE DURATION OF THE WARRANTY.

Some states do not allow limitations on how long the implied warranty lasts, so the above limitations may not apply to you. The only remedy provided to you under an applicable implied warranty or the express warranty shall be the remedy provided under the express warranty, subject to the terms and conditions contained therein.

Thompson Pump & Mfg., Co., Inc., shall not be liable for incidental or consequential losses and damages under the express warranty, any applicable implied warranty or claim for negligence, except to the extent that this limitation is found to be unenforceable under applicable state law.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For more information, contact the Thompson Pump Service Department at (800) 767-7310.

Effective: 11/15/02



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/27/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Williams and Stazzone Insurance 6549 N Wickham Road Unit 101 Melbourne FL 32940		CONTACT NAME: Stephanie Schrader PHONE (A/C, No, Ext): (800)868-1235 FAX (A/C, No): (321)868-2003 E-MAIL ADDRESS: sschrader@wsins.com	
INSURED Thompson Pump & Manufacturing Co. Inc P.O. Box 291370 Port Orange FL 32129-1370		INSURER(S) AFFORDING COVERAGE INSURER A: Westchester Surplus Lines Insurance Co NAIC # 10172 INSURER B: Ace American Insurance 22667 INSURER C: Technology Insurance Company 42376 INSURER D: INSURER E: INSURER F:	

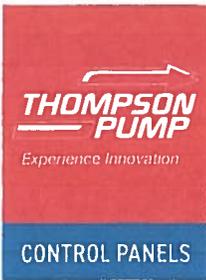
COVERAGES CERTIFICATE NUMBER: CL17122732667 REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			G24246279007	12/28/2017	12/28/2018	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY <input type="checkbox"/> AUTOS ONLY			H08453585 008	12/28/2017	12/28/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Drive other car \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			G24246280007	12/28/2017	12/28/2018	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	TWP3684163	12/28/2017	12/28/2018	PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	Pollution Liability Professional Liability			G24246279007	12/28/2017	12/28/2018	Pollution cond ded 10000 1,000,000 Ea Occurrence/Agg 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER Thompson Pump & Manufacturing Co., Inc. 4620 City Center Drive PO Box 291370 Port Orange FL 32129	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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RECON CONTROL PANELS

With Telemetry and Expandable I/O Options

MODEL: 2000 AND 2000T



RECON2000



Thompson Pump **RECON** Control Panels are specifically designed and engineered to work with our complete line of dewatering pumps. Our **RECON2000** 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

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.



TECHNICAL SPECIFICATIONS

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

Thompson Pump and Manufacturing Co., Inc.
4620 City Center Drive, Port Orange, FL 32129 USA
www.thompsonpump.com

Nationwide 800-767-7310 • International +1-386-767-7310
Fax 386-761-0362
sales@thompsonpump.com

Feb-18

Specifications and illustrations are subject to revision without notice and without incurring any obligation for previous or subsequent equipment sold. Thompson Pump (ISO 9001:2008) makes no representation regarding the completeness or accuracy of this information and is not liable for any direct or indirect damages arising from or relating to this information or its use. Capacity & Head are shown for comparative purposes. Consult Thompson factory for exact capabilities.

Request for Taxpayer Identification Number and Certification

Give Form to the
 requester. Do not
 send to the IRS.

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

See Specific Instructions on page 3. Print or type.	1 Name (as shown on your income tax return). Name is required on this line. Do not leave this line blank. Thompson Pump and Manufacturing Company, Inc.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input checked="" type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ <small>Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.</small> <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <small>(Applies to accounts maintained outside the U.S.)</small>
	5 Address (number, street, and apt. or suite no.) See instructions. 1496 Herbert Street	Requester's name and address (optional)
	6 City, state, and ZIP code Port Orange, FL 32129	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number										
OR										
Employer identification number										
5	9		-	1	2	8	6	3	8	9

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶	Date ▶ 2-15-18
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General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What Is backup withholding, later.



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 22, 2018 to June 26, 2019

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: 1014239




Paul M. Burck June 1, 2018
Paul M. Burck, President Date

