



JJA

October 4, 2017

**TO:** LOCSO Board of Directors

**FROM:** Jose Acosta, Utility Systems Manager

**SUBJECT:** **Agenda Item 11G – 10/12/2017 Board Meeting**  
 Authorize Purchase of 8<sup>th</sup> Street Drainage Pump

**President**  
 Jon-Erik G. Storm

**Vice President**  
 Vicki L. Milledge

**Directors**  
 Charles L. Cesena  
 Marshall E. Ochylski  
 Louis G. Tornatzky

**General Manager**  
 Renee Osborne

**District Accountant**  
 Robert Stilts, CPA

**Unit Chief**  
 Scott M. Jalbert

**Battalion Chief**  
 Josh Taylor

**Mailing Address:**  
 P.O. Box 6064  
 Los Osos, CA 93412

**Offices:**  
 2122 9<sup>th</sup> Street, Suite 102  
 Los Osos, CA 93402

**Phone:** 805/528-9370  
**FAX:** 805/528-9377

www.losososcscsd.org

**DESCRIPTION**

The current backup pump at 8<sup>th</sup> Street is in need of replacement, this unit has been in place for 15+ years, continually in need of repairs, monitoring, and is unable to work in an automated mode.

**STAFF RECOMMENDATION**

Staff recommends that the Board purchase the pump from United Rentals at \$59,174.23.

This item will be approved along with the Consent Calendar unless it is pulled by a Director for separate consideration. If so, Staff recommends that the Board adopt the following motion:

***Motion: I move that the Board direct staff to purchase the 8<sup>th</sup> Street Drainage Pump from United Rentals in the amount of \$59,174.23.***

**DISCUSSION**

The 8<sup>th</sup> Street drainage pump has been in service for 15+ years, repaired numerous times and has reached a point where repairing it would no longer prove to be cost efficient. Also included in the replacement of the unit is the required replacement of the diesel engine. The new requirements by the EPA and California Air Resources Board require the diesel engine to be upgraded to a Tier 4 engine. The District staff is capable of installing the pump, and placing into operation, allowing a cost saving for the District.

Attached is a copy of lowest bid, with all specifications required, being satisfied, as well as correspondence from all 5 vendors contacted. The following vendors were contacted and their responses:

1. Charles P. Crowley Co. - Spoke with representative and the company could not provide a quote for specified equipment.
2. R.F. MacDonald Co. – Initially received a response that a quote would be provided. After initial correspondence no further communication from representative.
3. Gorman-Rupp Pumps – Received a quote for **\$49,709**, unfortunately this was equipped with a Tier 3 diesel engine, which is no longer permitted. Gorman-Rupp was unable to provide a model with a Tier 4 engine.

4. Rain for Rent – Provided a quote, meeting all specifications, in the amount of **\$69,025.45.**
5. United Rentals – Provided lowest quote, meeting all specifications, in the amount of **\$59,174.23.**

### **FINANCIAL IMPACT**

The financial impact will be \$59,174.23. Replacement for a pump and panel was included in the 2017-2018 Drainage Budget which was approved at the July 6<sup>th</sup> Board Meeting.

Funding for the purchase of the pump will come from Fund 800, Capital Improvement Reserves.

Attachments



BRANCH 560  
635 TANK FARM RD  
SAN LUIS OBISPO CA 93401-700  
805-543-7297  
805-543-1195 FAX

**EQUIPMENT SALE  
QUOTE**

**# 150739449**

**Job Site**

LOS OSOS  
VARIOUS SITES  
x:1@1  
LOS OSOS CA 93402  
**Office:** 805-528-9370 **Cell:** 805-458-8123

LOS OSOS COMMUNITY SVC DIST  
PO BOX 6064  
LOS OSOS CA 93412

Customer # : 644067  
Quote Date : 10/02/17  
  
UR Job Loc : VARIOUS SITES, LOS O  
UR Job # : 5  
Customer Job ID:  
P.O. # : PUMP QUOTE  
Ordered By : FRANK  
Written By : MATTHEW TACKETT  
Salesperson : TIMOTHY HAVEMANN

**This is not an invoice  
Please do not pay from this document**

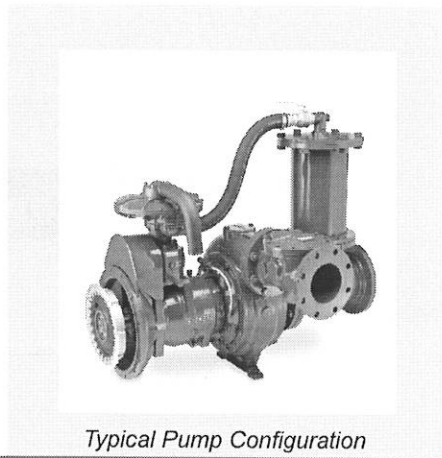
Qty	Equipment #	Price	Amount
1	5203003 PUMP 8" VAC ASSIST - DIESEL NEW 8" PIONEER PUMP , VAC ASSIST , TRAIL ER MOUNTED , 4500 GPM , 200' TDH , TIER 4 FINAL ENGINE , DELIVERED TO YARD IN LOS OSOS	55174.11	55174.11
Sub-total:			55174.11
Tax:			4000.12
Estimated Total:			59174.23

ALL ITEMS HAVE BEEN RECEIVED X \_\_\_\_\_

Customer is hereby notified that United Rentals has assigned its rights (but not its obligations) in the agreement to sell all or any of the used equipment described herein to United Rentals Exchange, LLC., a qualified intermediary, as part of a Section 1031 like-kind exchange program.

**Note:** This proposal may be withdrawn if not accepted within 30 days.

THIS IS NOT AN EQUIPMENT SALE AGREEMENT/INVOICE. THE SALE OF EQUIPMENT AND ANY OTHER ITEMS LISTED ABOVE IS SUBJECT TO AVAILABILITY AND ACCEPTANCE OF THE TERMS AND CONDITIONS OF UNITED'S EQUIPMENT SALE AGREEMENT/INVOICE, WHICH MUST BE SIGNED PRIOR TO OR UPON DELIVERY OF THE EQUIPMENT AND OTHER ITEMS.



Typical Pump Configuration

Pioneer Prime

# PP88S12L71

## Performance

### Pioneer Prime series - vacuum assisted, end suction centrifugal pump

Bare shaft, frame mounted, fully automatic dry priming, vacuum assisted, run dry, heavy duty solids handling pump

Size	8" x 8" 200 x 200 mm
Flow, Max	4,500 USgpm 1040 m <sup>3</sup> /h 280 l/s
Head, Max	200 feet 60 meters
Flow at BEP	2,600 USgpm 600 m <sup>3</sup> /h 160 l/s
Efficiency at BEP	70%
Solids Handling, Max	3.0" 76 mm
Operating Speed, Max	2000 rpm
Suction Connection	8" (200 mm) 150 ANSI Flanges
Delivery Connection	8" (200 mm) 150 ANSI Flanges
Bearing Lubrication	Oil STD Grease optional
Fasteners	Imperial

## Applications

Construction	Waste Water
Industrial	Power Generation
Mining	Environmental

### High flow, solids handling heavy duty pump

The PP88S12 is a high flow, ruggedized pump designed to operate over a broad range of performance while delivering outstanding suction lift. The rugged construction and modular design provide proven reliability and flexibility in the most demanding applications.

## UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Single chamber with positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc

## Other Specifications

Mechanical Seal	Single seal w/ tungsten carbide vs. silicon carbide seal faces, Viton® elastomers, 300 series stainless steel hardware and spring, designed for indefinite dry running
Pump End Bearing	Single Row Ball
Drive End Bearing	Single Row Ball
Shaft	17-4 PH Stainless Steel

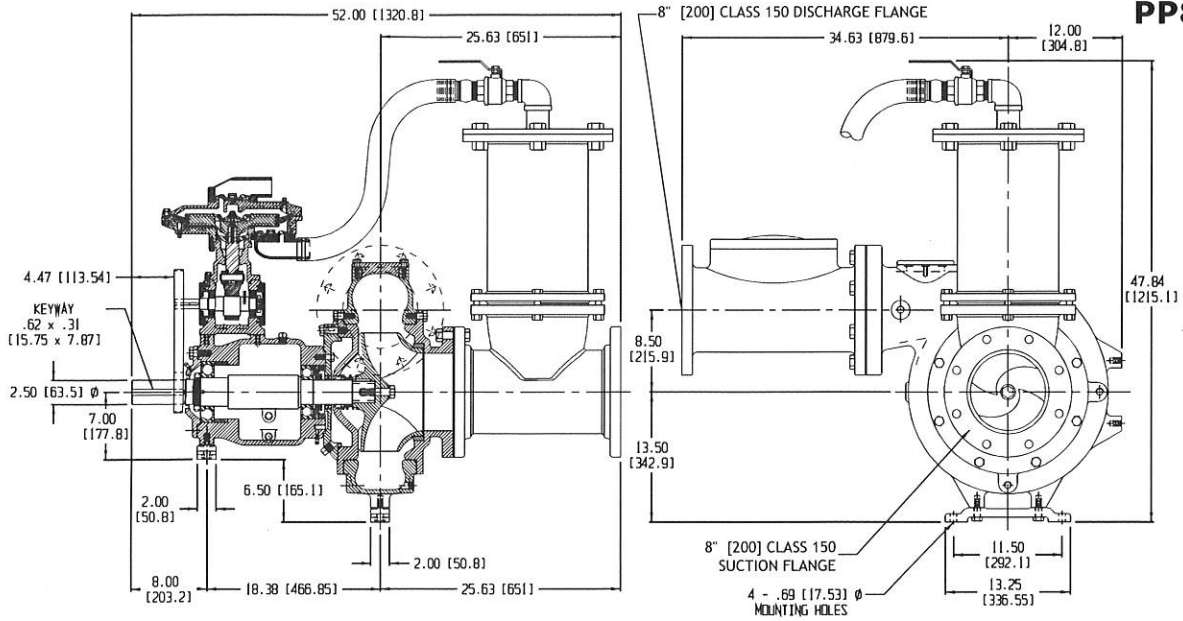
## Construction Materials

	Standard Construction	CD4MCu Stainless Steel
Impeller	CA6NM SS	CD4MCu
Volute	Ductile Iron ASTM A536 65-45-12	CD4MCu
Wear Ring	ASTM A48 Class 40 Gray Iron	316 SS
Suction Cover	Ductile Iron ASTM A536 65-45-12	CD4MCu
Bracket	Ductile Iron ASTM A536 65-45-12	CD4MCu
Backplate	Ductile Iron ASTM A536 65-45-12	CD4MCu

# Mechanical Dimensions

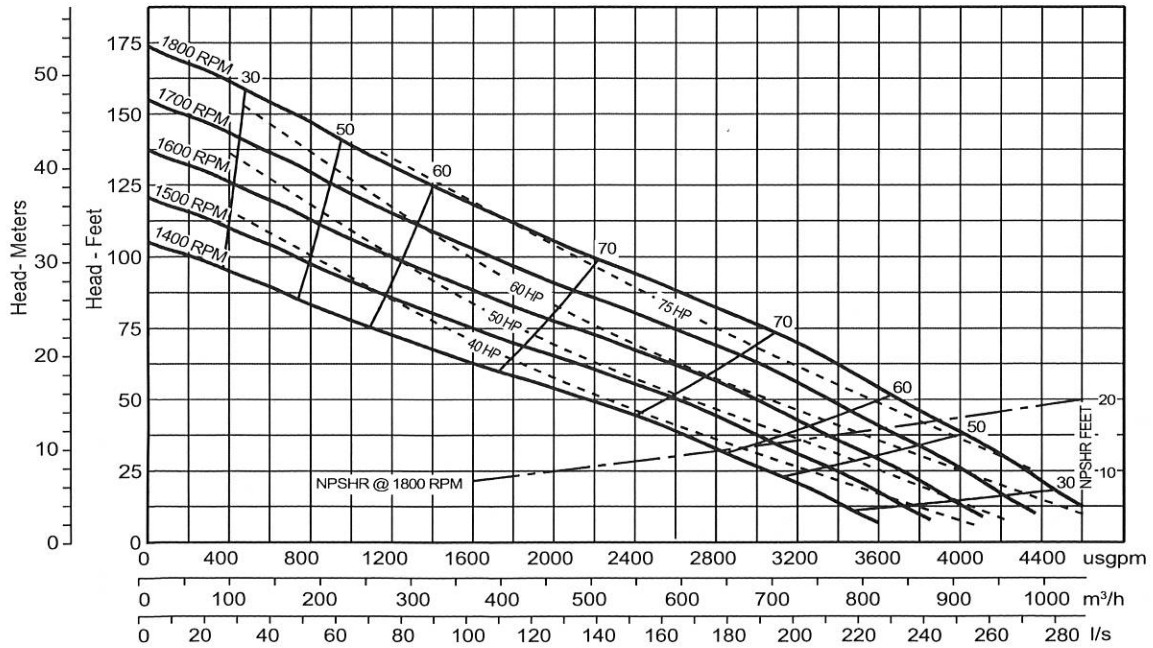


Typical Pump Configuration



# Performance Curve

Model: PP88S12	Impeller Dia: 12.25"	Speed: Variable	Solids Size: 3.0"	Curve #A4631HQ
----------------	----------------------	-----------------	-------------------	----------------



Note: Losses from priming system not shown

Pump Data Sheet - .

Company:  
Name:  
Date: 10/02/2017



**Pump:**  
Model: PP88S12 Dimensions: Suction: 8 in  
Type: Pioneer Prime Discharge: 8 in  
Synch Speed: 1800 rpm  
Line: 11.58 x 16°  
Curve: PP88S12-VS-1800  
Size: 8x8

**Fluid:**  
Name: Water  
SG: 1 Vapor Pressure: 0.256 psi a  
Density: 62.4 lb/ft³ Atm Pressure: 14.7 psi a  
Viscosity: 1.1 cP  
Temperature: 60 °F

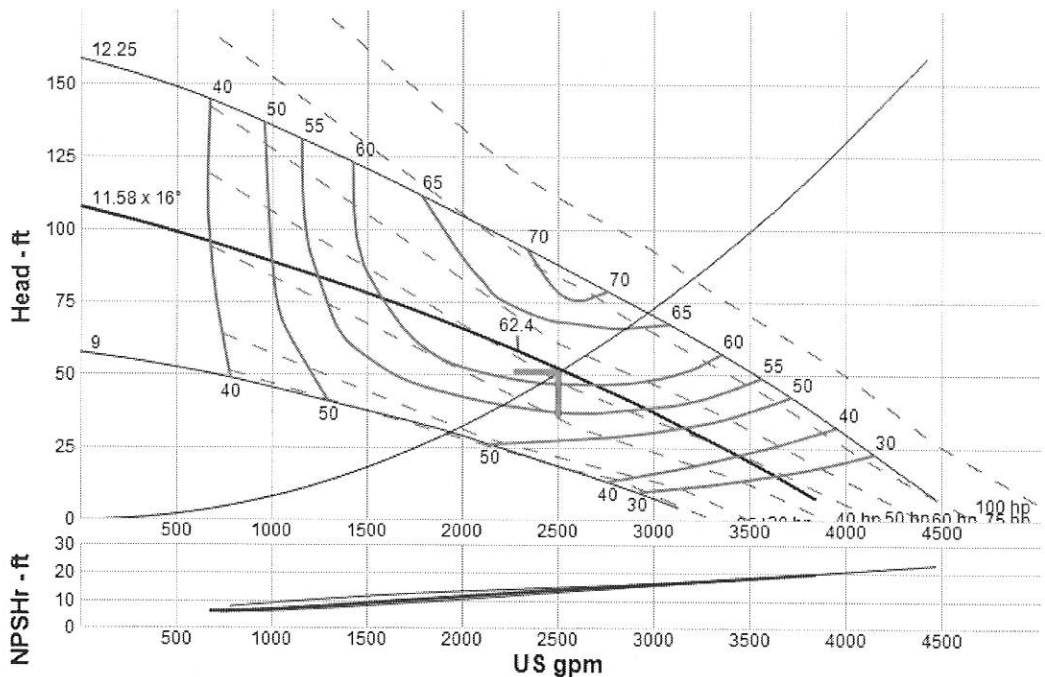
**Search Criteria:**  
Flow: 2500 US gpm Near Miss: ---  
Head: 51 ft Static Head: 0 ft

**Pump Limits:**  
Temperature: --- Sphere Size: 3 in  
Wkg Pressure: ---

**Motor:**  
Standard: NEMA Size: 60 hp  
Enclosure: TEFC Speed: 1800 rpm  
Frame: 364T  
Sizing Criteria: Max Power on Design Curve

**Pump Selection Warnings:**  
None

--- Duty Point ---	
Flow:	2516 US gpm
Head:	51.6 ft
Eff:	61%
Power:	53.3 hp
NPSHr:	13.9 ft
Speed:	1780 rpm
--- Design Curve ---	
Shutoff Head:	108 ft
Shutoff dP:	46.7 psi
Min Flow:	--- US gpm
BEP:	62.4% @ 2286 US gpm
NOL Power:	53.9 hp @ 2286 US gpm
--- Max Curve ---	
Max Power:	80.6 hp @ 3078 US gpm



For VAC-Assist priming system add 1.0 hp to power indicated when sizing the driver. The performance is guaranteed for the design point only when pumping clean water at 60 degrees F. Consult factory for certified performance curve.

**Performance Evaluation:**

Flow	Speed	Head	Efficiency	Power	NPSHr
US gpm	rpm	ft	%	hp	ft
3000	1780	37.1	53.8	52.1	16
2500	1780	52.1	61.1	53.3	13.8
2000	1780	65.5	61.4	52.6	11.5
1500	1780	78.1	58.9	50	9.07
1000	1780	89	50.1	44.9	6.78

10-031-710617

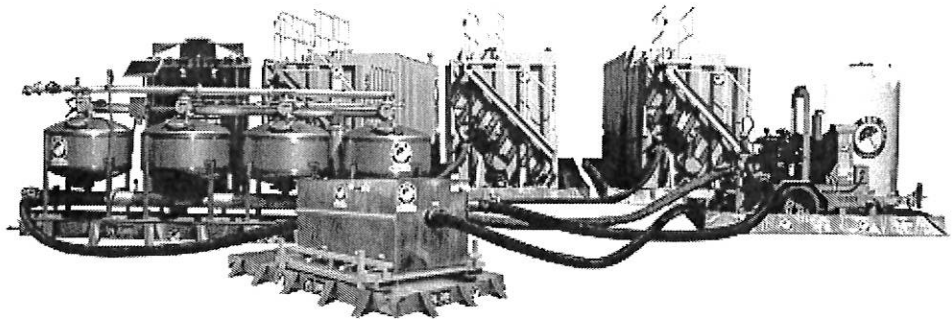
**Quotation Developed Especially for:**

Jose Acosta  
Los Osos Csd  
2122 9th Street  
Los Osos, CA 93402  
Phone: (805) 528-9370

**Prepared on 9/22/2017 by:**

Kyle Van Fleet  
Cell: 805-331-0231  
4001 State Rd  
Bakersfield, CA 93308  
Phone: 661-399-1724  
Fax: 661-392-9427

[www.rainforrent.com](http://www.rainforrent.com)





Sale Quotation

Bakersfield

www.rainforrent.com

4001 State Rd
Bakersfield, CA 93308
Phone: 661-399-1724
Fax: 661-392-9427

Quotation Number: 10-031-710617
Prepared By: Kyle Van Fleet

Job Description:
SALE OF 8" TRAILER MOUNTED DIESEL TRASH
PUMP

Customer: Los Osos Csd
Customer ID: 13793f
Address: 2122 9th Street
City/State: Los Osos, CA 93402
Contact: Jose Acosta
Office: (805) 528-9370
Fax:

Location:
LOS OSOS, CA

Sale Sub Total: \$69,025.45

Sub Total: \$69,025.45

Table with 2 columns: Item Description and Amount. Includes rows for Recommended Optional Items - Rental/Sales, Est. Delivery Hauling, Est. Pick-up Hauling, Est. Install Labor, Est. Removal Labor, Est. Services, Est. Air Quality Fee, Est. Rev Air Quality Fee, Est. Enviro Recovery Fee, and Est. Rev Enviro Recovery Fee.

( Does Not Include Sales Tax )

Grand Total: \$69,025.45

Date Prepared: 9/22/2017

Valid Until: 10/22/2017

Customer

Date

By signing this quotation, customer represents that he/she has read and agreed to both the Statement of Work and Scope of Agreement sections, and is also agreeing to the grand total amount listed above, plus any recommended optional items if checked and initialed.

Rental Protection Plan
I have received and reviewed the Rental Protection Plan Agreement incorporated as the last page of this estimate. By initialing this paragraph, I understand that I am agreeing to enter into and be bound by the terms of the Rental Protection Plan Program Agreement and that I am authorized to enter into this Agreement on behalf of Customer.





Sale Quotation

Bakersfield

www.rainforrent.com

4001 State Rd  
Bakersfield, CA 93308  
Phone: 661-399-1724  
Fax: 661-392-9427

Quotation Number: 10-031-710617

Application: VARIOUS Materials: STORM WATER, SEWAGE, CLEAN WATER Flow: SEE CURVE Suction Lift:  
TBD Friction Loss: TBD  
Static Head: TBD

This quotation has not been flagged as PREVAILING WAGE.

Sale Items

Qty	Unit	Item	Description	Unit Price	Extension
1	Each	M240	8" PUMP - DV195C - FINAL TIER 4 ENGINE	\$60,715.29	\$60,715.29
2	Each	714825	Hose 8"X25' Hd Tank Truck Flange X Swedge 150#	\$2,892.28	\$5,784.56
4	Each	315990	Float Open Complete	\$82.79	\$331.16
1	Each	MS	DELIVERY OF PUMP AND HOSES TO LOS OSOS, CA	\$2,194.44	\$2,194.44

Sale Sub Total: \$69,025.45

Sub Total: \$69,025.45



## Sale Quotation

Bakersfield

www.rainforrent.com

4001 State Rd  
Bakersfield, CA 93308  
Phone: 661-399-1724  
Fax: 661-392-9427

Quotation Number: 10-031-710617

### SCOPE OF WORK

The enclosed proposal includes sale pricing for a Rain for Rent 8" DV-195c Trailer Mounted Diesel Trash Pump.

#### DV195C PUMP INCLUDES THE FOLLOWING:

Premier Pump model 8NNT-VP-4045HFC04-T120, trailer mounted, end suction centrifugal, vacuum assisted pump. Unit consists of 13 CFM compressor, venturi type air/water separator, heavy duty flapper-type check valve, Tungsten vs. Silicon Carbide seal with rundry feature.

Pump Construction - 8NNT - cast iron

Impeller diameter - 12.63"/14"

Trailer - Powder coated steel frame, 120 gallon HDPE fuel tank with lifting frame.

single axle, fenders, qty (4) jack stands, DOT lights, electric brakes.

Engine - John Deere model 4045HFC04 rated at 140 HP at 2400 RPM, Final Tier 4.

Control's Inc auto start control panel

Standard delivery is 16-18 weeks ARO, (Dependent on current engine and pump availability)

Rental pricing for a similar unit has been included in the optional products section for reference.

Product descriptions and warranty details shall be provided with this proposal.

#### Project Details:

- Rain for Rent to provide delivery and sale of equipment as quoted.
- All Rain for Rent Terms and Conditions for the sale of equipment apply.

#### Operating Parameters:

- System shall be operated manually by the customer per manufacturer's recommendations.



Bakersfield

## Sale Quotation

www.rainforrent.com

4001 State Rd  
Bakersfield, CA 93308  
Phone: 661-399-1724  
Fax: 661-392-9427

Quotation Number: 10-031-710617

### Rain for Rent Exclusions:

- Fuel
- Operation of systems
- Traffic Control
- Any permits or fees.

### Customer Responsibilities:

- Accommodation of exclusions as listed above
- Clear and safe access to the jobsite.



## Sale Quotation

Bakersfield

www.rainforrent.com

4001 State Rd  
Bakersfield, CA 93308  
Phone: 661-399-1724  
Fax: 661-392-9427

Quotation Number: 10-031-710617

### Scope of Agreement

If Customer has entered into a Master Service Agreement with Rain for Rent and there is a conflict between the terms and conditions of this Scope of Agreement and the Customer's Master Service Agreement, then the terms and conditions in the Customer's Master Service Agreement signed by Rain for Rent will prevail.

Availability of products and services is subject to change without notice.

The rental period begins the day the equipment is delivered and continues until returned to originating Rain for Rent facility unless agreed to in writing before the rental period begins. A cycle is defined as 4 weeks, which is 28 days. The weekly price is one third of the cycle price, and the daily price is one third of the weekly price. Payment terms are net 30 days from invoice date. Interest at the rate of 18% per year shall be charged on any past due invoice.

A Fuel Surcharge will be calculated and invoiced based on the diesel fuel price as published by the Department of Energy on <http://tonto.eia.doe.gov/oog/info/wohdp/diesel.asp>

A 1.5% Environmental Recovery Fee shall apply to all rental charges invoiced pursuant to this Quote/Estimate to help offset direct and indirect costs associated with regulatory compliance, obtaining permits, and obtaining licenses.

Customer is prohibited from deducting retention from Rain for Rent invoices and charging Rain for Rent liquidated damages.

Customer is responsible for flushing and cleaning tanks, roll off boxes, pipelines, pumps, filters and other Rain for Rent equipment prior to return unless specifically agreed to by both parties in writing.

The Terms and Conditions of the Rain For Rent Rental and Acute Hazardous Waste Agreements, Credit Application/Master Rental & Sales Agreement, Invoice and this Quotation (also known as the Rain for Rent Rental/Sale Estimate as may be referenced in any Master Service Agreement, Blanket Purchase Order, or any other contractual document executed between the parties) contain the complete and final agreement between Rain For Rent and Customer and no other agreement in any way modifying or adding to any of said Terms and Conditions will be binding upon Rain For Rent unless made in writing and signed by a Rain For Rent Corporate Officer.

The Customer cannot alter the equipment without Rain for Rent's prior written approval. Customer is responsible for equipment, repairs, maintenance and damage, excluding normal wear and tear or damage caused by Rain for Rent. All returned equipment is subject to inspection by Rain for Rent personnel. Damages and accrued rent will be invoiced to Customer while equipment is out of service for repairs. The Customer is responsible for damage caused by reactive, corrosive or abrasive material; including, but not limited to sand, sodium hydroxide, chlorine, and acids. Customer must notify Rain for Rent immediately of any spill so that any necessary repairs to the system can be made and to minimize service interruption. The Customer assumes all risks of loss due to operation and use of the equipment. Customer will provide "all risk" property insurance for rented equipment.

Customer shall pay Rain For Rent additional expenses caused by unforeseen or changing conditions, including, but not limited to, soil, underground conditions, rock formations, environmental conditions, weather events, regulations or restrictions, hard pan, boulders, cesspools, gas lines, water lines, drain pipes, underground electrical conduits or other above ground or underground obstructions.

All equipment rented or used products sold are provided "AS IS, WHERE IS" in their present condition. Rain for Rent makes no warranties, expressed or implied of any kind whatsoever with respect to the equipment or products. Customer agrees that customer is renting equipment or purchasing used products based on their judgment and evaluation, without reliance upon any statements of representations by Rain for Rent, and that Rain for Rent is not responsible for any defects in their operation or for any repairs, parts or services, unless otherwise noted.

All new products sold are provided without warranty beyond the terms of such warranty offered by the manufacturer, if any. Customer must comply with all original manufacturer's terms and conditions for any warranty claims that may arise. Neither Rain for Rent nor the manufacturer warrants the product if it has failed due to corrosion, misuse or damage; (2) it has been altered, repaired or modified in any way that would adversely affect its operation; or (3) it was installed or operated other than in accordance with manufacturer's operating instructions. Products supplied by Rain for Rent are warranted to be free from any defect in workmanship and material under conditions of normal use and service. Rain for Rent's obligation under this warranty is limited to replacing or repairing at the designated manufacturer's or Rain for Rent facility any part or parts returned to it with transportation charges prepaid, which Rain for Rent determines in its sole discretion to be defective.

This Quotation excludes any additional costs to Rain for Rent associated with Owner Controlled Insurance (OCIP) or WRAP insurance programs that will be added to Rain For Rent's prices.

De-watering, Roll-off, Vacuum boxes and similar equipment are not liquid tight. Rentee accepts full responsibility for all losses, damages and costs caused by or arising out of spills, leakage or discharge from this equipment. Rain for Rent will not be held liable for any structural or soils subsidence.

This Quotation is valid for 30 days and is subject to credit approval.

## RENTAL PROTECTION PLAN PROGRAM AGREEMENT

**If you elect to maintain All Risk Property Insurance coverage, and the certificate of insurance You provide to Rain for Rent to evidence Your insurance coverage expires or is cancelled for any reason, You agree Rain for Rent may charge RPP for Your rentals until such time as You provide an acceptable and valid certificate of insurance to Rain for Rent.**

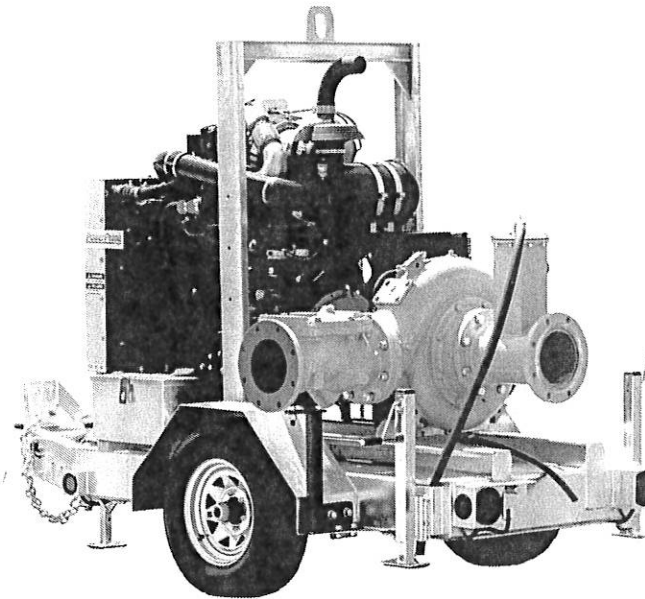
This Rental Protection Plan Program Agreement (this "RPP Agreement") is entered into between the undersigned Rentor and Rentee in relation to the Master Rental and Sales Agreement (MRSAs) between Rentor and Rentee. If Rentee has checked or initialed, as applicable, the Rental Protection Plan Program (the "RPP Program") box on the quote, then Rentee has opted-in to the RPP Program and this RPP Agreement shall supplement the MRSAs whether or not executed by Rentee. Rentee understands and agrees that the RPP Program is not insurance and that the RPP Program provides only limited coverage, as described below.

1. Cost; Deductible; Maximum Coverage; Rentee shall pay a fee equal to 14 percent (14%) of the rental charge for each covered item, which fee shall be listed on each invoice during which period Rentee has opted to participate in the RPP Program. In the event of a Covered Occurrence, as defined below, Rentee shall further be responsible for the lesser of \$500 or 10 percent (10%) of the total loss, as a deductible. The maximum coverage available under the RPP Program is \$150,000 per Covered Occurrence, whether or not there is more than one piece of equipment involved in the occurrence.

2. Coverage; The RPP Program provides coverage only for losses involving Covered Equipment, as defined below, in the following instances: fire that was not caused by Rentee's gross negligence or willful misconduct; theft for which a police report was filed, and that occurred despite Rentee's reasonable precautions to protect and secure the covered equipment; and vandalism for which a police report was filed (individually, "Covered Occurrence," and collectively, "Covered Occurrence"). The RPP Program provides coverage only for the following types of equipment: pumps, tanks, generators, light towers, filtration, boxes, heaters, pipe, and fittings ("Covered Equipment"). Coverage does not extend to any equipment not owned by Rentor such as re-rented equipment.

3. Exclusions; The RPP program does not cover any equipment or event of loss that is not specifically described in Section 2. Without limiting the foregoing, the RPP Program does not provide coverage for the following: misuse of equipment; willful abuse of equipment; failure to maintain equipment; failure to secure items from theft (including but not limited to failing to store items in a fenced, locked area or failing to maintain personnel on site); damage or theft while in transit to or from a jobsite; corrosion from any source; any damage caused by named storm events; any instance that occurs while the account is not in good standing, such as a default as defined in the MRSAs or upon written notice of non-payment; and any occurrence not reported to Rentor within 24 hours after the occurrence. The RPP program does not provide coverage for: spillguards, hoses, electronic equipment (controls, instrumentation, and wiring), sprinklers, wheel wash systems, Freezesentry items, tires, or electric submersible pumps.

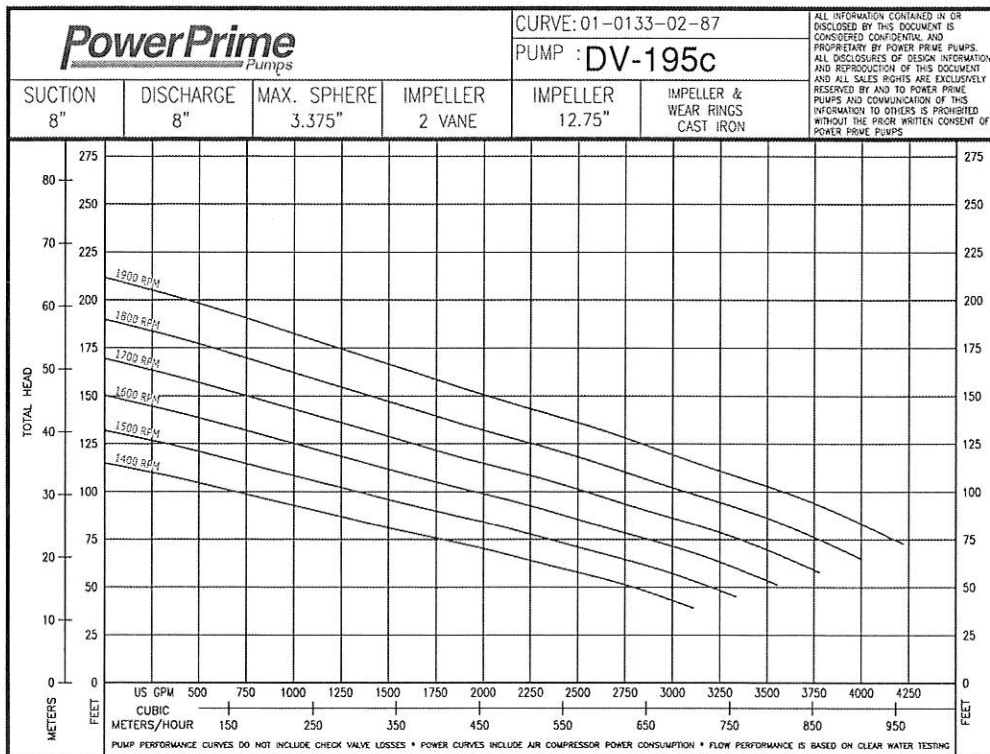
4. Claims; All claims must be submitted within 24 hours of the Covered Occurrence. Rentor's mechanic will inspect the equipment following any claim. The mechanic's findings as to the cause of the damage and cost of repair will be final. In the event of a theft or vandalism, Rentee must also provide supporting evidence that the site was secured at the time of loss.



### DV195c Overview:

The 8 inch (203.2 mm) DV195c Clean Prime™ is an extremely robust pump unit, capable of flow rates to 4200 GPM, total dynamic heads to 180 feet (57.9M), and solids handling capabilities up to 3.375 inches (85.7mm) in diameter. The DV195c also features the PowerPrime™ Pumps high pressure Tungsten vs. Silicon Carbide mechanical seal that allows for indefinite dry running, ideal for intermittent flow applications as well as our proprietary Clean Prime™ self-priming system that mitigates any product blow by in the venture priming system while maintaining suction lift capabilities of up to 28 feet. All of these features come standard on a highly maneuverable galvanized Trailer compact for convenient use.

### Pump Performance Curve:



### Standard Features:

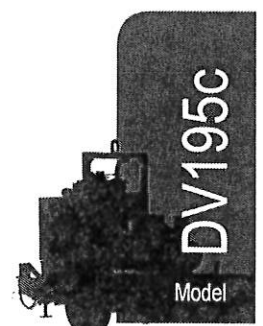
- Hot Dip Galvanized Trailers and Skids
- Radiator Enclosure
- John Deere Emissions Certified Engine
- Electric Brakes with Safety Breakaway
- Electroplated Locking Battery Box

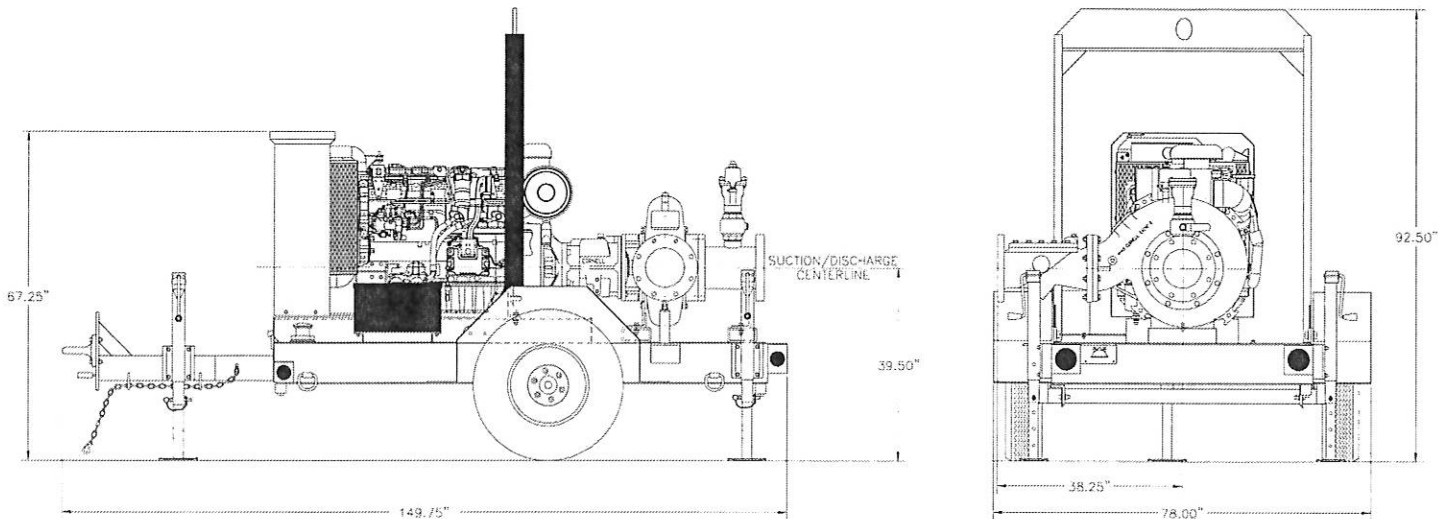
*Optional DOT LED lights*  
*Optional Floats*

### Pump Features:

- Solids-handling capabilities to 3.375" diameter maximum
- Continuous self-priming
- Runs dry unattended
- Suction lift up to 28 ft.
- Auto-start-capable control panel

*Optional CD4MCu*  
*Optional Ductile Iron*



**Dimensions:****Standard Model Specifications:****Pump:**

- Pump Size: 8"x8" AISI 150# flanges standard
- Suction Cover: ASTM A48 class 30 gray iron
- Wear Ring: ASTM A48 class 30 gray iron
- Volute Casing: ASTM A48 class 30 gray iron
- Back Plate: ASTM A48 class 30 gray iron
- Mechanical Seal: Tungsten vs silicon carbide seal faces Viton elastomers, 300 series stainless steel hardware and spring, seal system designed for dry running
- Impeller: Enclosed type, two port, non-clog, with 3" spherical solids handling capability ASTM A48 class 30 gray iron
- Bearing Housing: ASTM A48 class 30 gray iron

**Engine:**

- Model: 4045HFC92 iT4
- 140 heavy duty horsepower @ 2200
- Six cylinder, six cycle, water cooled diesel engine
- Governor: Electronic
- Lubrication: Force feed

**PowerPrime**  
Pumps

[powerprime.com](http://powerprime.com)

115 Kentucky St.  
Bakersfield, CA 93305

800.647.7246

[sales@powerprime.com](mailto:sales@powerprime.com)

## Jose Acosta

---

**From:** Tom Emick <temick@mckennaengineering.com>  
**Sent:** Wednesday, September 27, 2017 11:46 AM  
**To:** Jose Acosta  
**Subject:** Re: Request for Quote

Jose

Unfortunately, I was told Gorman-Rupp does not have a Tier 4 unit at this time in this size.

Best Regards,

Tom Emick, P.E.  
Field Sales Engineer  
McKenna Engineering  
o: 310-763-7929  
f: 310-763-7950  
c: 310-719-5412  
e: [temick@mckennaengineering.com](mailto:temick@mckennaengineering.com)

Sent from my iPhone

On Sep 27, 2017, at 10:09 AM, Jose Acosta <[jacosta@losososcsd.org](mailto:jacosta@losososcsd.org)> wrote:

Tom,

After review of the spec provided, I notice the engine is Tier 3 engine. Unfortunately the RFQ did not specify this, but within SLO county all diesel engines must be of Tier 4 nature. Would it be possible to resubmit a quote with this change?

Thank you,

Jose Acosta

---

**From:** Tom Emick [<mailto:temick@mckennaengineering.com>]  
**Sent:** Wednesday, September 27, 2017 8:00 AM  
**To:** Jose Acosta <[jacosta@losososcsd.org](mailto:jacosta@losososcsd.org)>  
**Cc:** Tom Emick <[temick@mckennaengineering.com](mailto:temick@mckennaengineering.com)>; David Sperber <[dsperber@ewsinc.org](mailto:dsperber@ewsinc.org)>  
**Subject:** RE: Request for Quote

Jose

Please find attached our quotation for a Gorman-Rupp diesel engine driven self-priming centrifugal pump trailer package. Let me know if you have any questions.

**TOM EMICK, P.E.**  
FIELD SALES ENGINEER





**Environmental Water Solutions, Inc.**  
a McKenna Engineering Company

Quote: 17-0926-TRE01

September 26, 2017

Jose Acosta  
Utilities Systems Manager  
Los Osos Community Services District  
2122 9<sup>th</sup> St.  
Los Osos, CA 93402

Phone: (805) 528-9376  
Email: jacosta@losososcscsd.org

Dear Jose,

Environmental Water Solutions, Inc. is pleased to quote the following Gorman-Rupp pump package:

Gorman-Rupp Model T8A60S-4045H (see attached data sheet):

- Size 8" x 8", flanged
- John Deere, four cylinder, turbocharged, charge air-cooled, enclosed, liquid cooled diesel engine driven
- Casing: Gray Iron 30.
  - Maximum Operating Pressure 90 psi (621 kPa)
- Semi-Open Type, Two Vane Impeller: Ductile Iron 65-45-12.
  - Handles 3" (76,2 mm) Diameter Spherical Solids.
- Seal: Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning Silicon Carbide Rotating and Stationary Faces. Stainless Steel 316 Stationary Seat. Fluorocarbon Elastomers (DuPont Viton or Equivalent). Stainless Steel 18-8 Cage and Spring. Maximum Temperature of Liquid Pumped 160°F.
- Flanges: Gray Iron 30.
- Gaskets: Buna-N, Compressed Synthetic Fibers, PTFE, Cork and Rubber.
- O-Rings: Buna-N.
- Single ball type float switch
- Trailer, High speed single axle pneumatic-tired wheel kit with DOT approved lights and electric brakes.
- Full feature control panel

**Price Each: \$ 49,709**

The price excludes sales tax and freight.

Shipment: Approximately 10 to 12 weeks after receipt of approved drawings. The lead-time is subject to prior sale and settlement of all commercial details.

ExWorks: Factory—Mansfield, OH

Freight: Pre Pay & Add

Terms: To be determined at time of order placement, subject to credit approval



**Environmental Water Solutions, Inc.**  
a McKenna Engineering Company

Quote: 17-0926-TRE01

Price Validity: 30 days from the date of this quote

If you should favor us with a purchase order, please make it out to:

Environmental Water Solutions  
1162 E. Dominguez St.  
Carson, CA 90746

The attached Environmental Water Solutions standard terms and conditions of sale apply to this quote.

Thank you for giving us the opportunity to quote the above. We look forward to working with you on this project.

Please don't hesitate to call with any comments, questions or concerns.

Best Regards,

Tom Emick  
Field Sales Engineer  
Office: (310) 763-7929  
Fax: (310) 763-7950  
1162 E. Dominguez St., Carson, CA 90746  
temick@mckennaengineering.com

Accepted By – Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Purchase Order #: \_\_\_\_\_

Date: \_\_\_\_\_

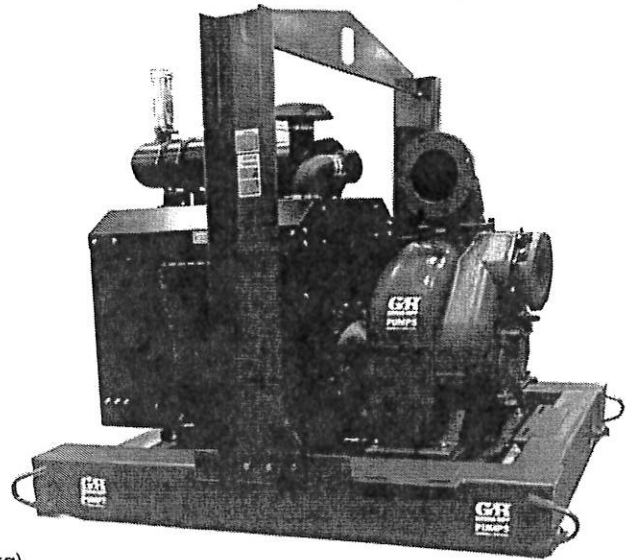


# Self Priming Centrifugal Pump w/Autostart

Model T8A60S-4045H  
Size 8" x 8"



Total Head		Capacity of Pump in U.S. Gallons per Minute (GPM) at Continuous Performance			
P.S.I.	Feet				
54.6	126	600	600	600	600
52.0	120	800	800	800	800
43.4	100	1300	1560	1560	1560
34.7	80	1360	1780	2038	2180
26.0	60	1420	1860	2120	2580
17.4	40	1480	1920	2230	2700
Suction Lift		25'	20'	15'	10'



**PUMP SPECIFICATIONS**

Size: 8" x 8" (203 mm x 203 mm) Flanged.  
 Casing: Gray Iron 30.  
 Maximum Operating Pressure 90 psi (621 kPa).  
 Semi-Open Type, Two Vane Impeller: Ductile Iron 65-45-12.  
 Handles 3" (76,2 mm) Diameter Spherical Solids.  
 Impeller Shaft: Stainless Steel 17-4 PH.  
 Externally Adjustable, Replaceable Wear Ring: Gray Iron 30.  
 Removable Adjustable Cover Plate: Gray Iron 30; 66 lbs. (30 kg).  
 Flap Valve: Neoprene w/Steel Reinforcing.  
 Seal Plate: Gray Iron 30.  
 Shaft Sleeve: Alloy Steel 4130.  
 Seal: Cartridge Type, Mechanical, Oil-Lubricated, Double Floating, Self-Aligning, Silicon Carbide Rotating and Stationary Faces. Stationary Seat. Fluorocarbon Elastomers (DuPont Viton® or Equivalent). Stainless Steel 316 Stationary Seat, Cage and Spring. Maximum Temperature of Liquid Pumped 160°F (71°C).  
 Bearing Housing: Gray Iron 30.  
 Radial/Thrust Bearings: Open Double Ball.  
 Bearing and Seal Cavity Lubrication: SAE 30 Non-Detergent Oil.  
 Flanges: Gray Iron 30.  
 Gaskets: Buna-N, Compressed Synthetic Fibers, PTFE, Cork, and Rubber.  
 O-Rings: Buna-N.  
 Hardware: Standard Plated Steel.  
 Brass Pressure Relief Valve.  
 Bearing and Seal Cavity Oil Level Sight Gauges.  
 \*Consult Factory for Applications Exceeding Maximum Pressure and/or Temperature Indicated.

**Standard Equipment:** Hoisting Bail. 90° Discharge Elbow. Strainer. Single Ball Type Float Switch.\*\*

\*\*50 Ft. (15 m) Standard Length; Dual Switches and Alternate Cable Lengths Available From the Factory.

**Optional Equipment:** Battery. G-R Hard Iron Impeller, Seal Plate and Wear Plate. High Speed (55 MPH/89 KM/H) Single Axle Pneumatic-Tired Wheel Kit w/o DOT-Approved Lights and Electric Brakes. Tandem Axle Over-the-Road Trailer (Meets DOT Requirements) Available w/ Either Electric or Hydraulic Surge Brakes, Running Lights, Jack Stands and Safety Cables/Chains. Full Feature Control Panel For Use w/ Submersible Transducer Liquid Level Sensor (50 Ft. [15 M] Cable Standard, Alternate Lengths Available).

**WARNING!**  
Do not use in explosive atmosphere or for pumping volatile flammable liquids.

**ENGINE SPECIFICATIONS**

Model: John Deere 4045H "Power Tech".  
 EPA Tier: Interim Tier 3.  
 Type: Four Cylinder, Turbocharged, Charge Air Cooled, Enclosed, Liquid Cooled Diesel Engine.  
 Displacement: 275 Cu. In. (4,5 Liters).  
 Lubrication: Forced Circulation.  
 Air Cleaner: Dry Type.  
 Fuel Tank: 88 U.S. Gals. (330 Liters).  
 Full Load Operating Time: 22.6 Hrs.  
 Starter: 12V Electric.  
 Standard Features: Muffler w/Weather Cap.  
 Optional: Electronic Fuel Level Sensor.

**Engine Control Features:** Padlockable Box with Throttle Control, Tachometer, Coolant Temperature, Oil Pressure, Voltage and Overstart Indicators/Shutdowns. Manual/Stop/Auto Keyswitch. Audible Startup Warning Delay. Fuel Level Display/Alarm/Shutdown (For Use With Optional Fuel Level Sensor).

**JOHN DEERE PUBLISHED PERFORMANCE:**  
 Maximum Gross BHP (Heavy Duty)  
 115 (86 kW) @ 2200 RPM



GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

**Specification Data**

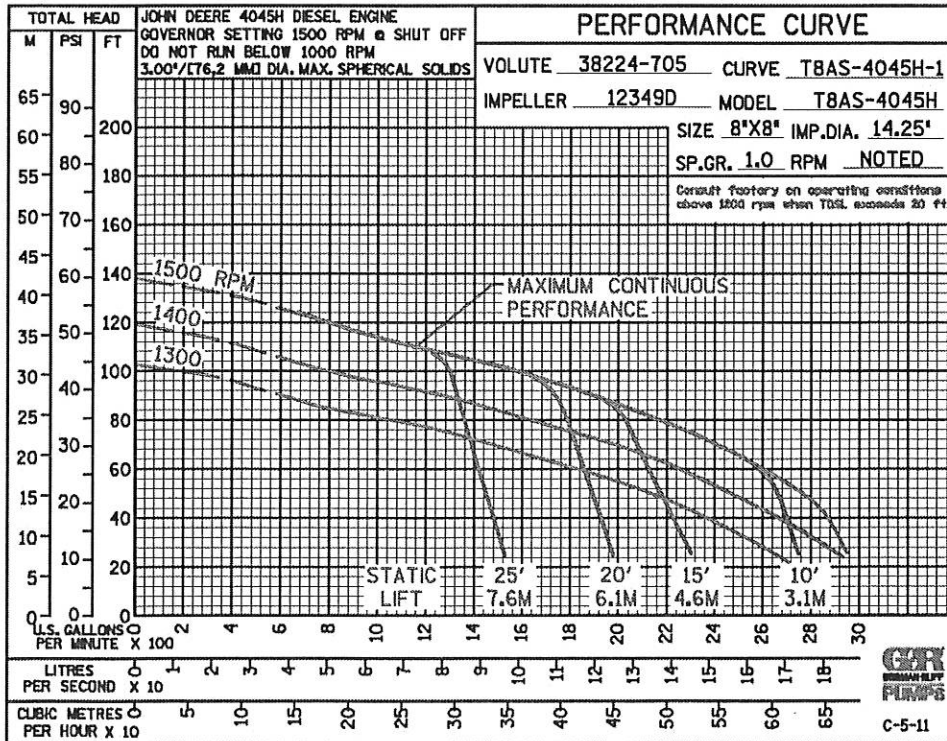
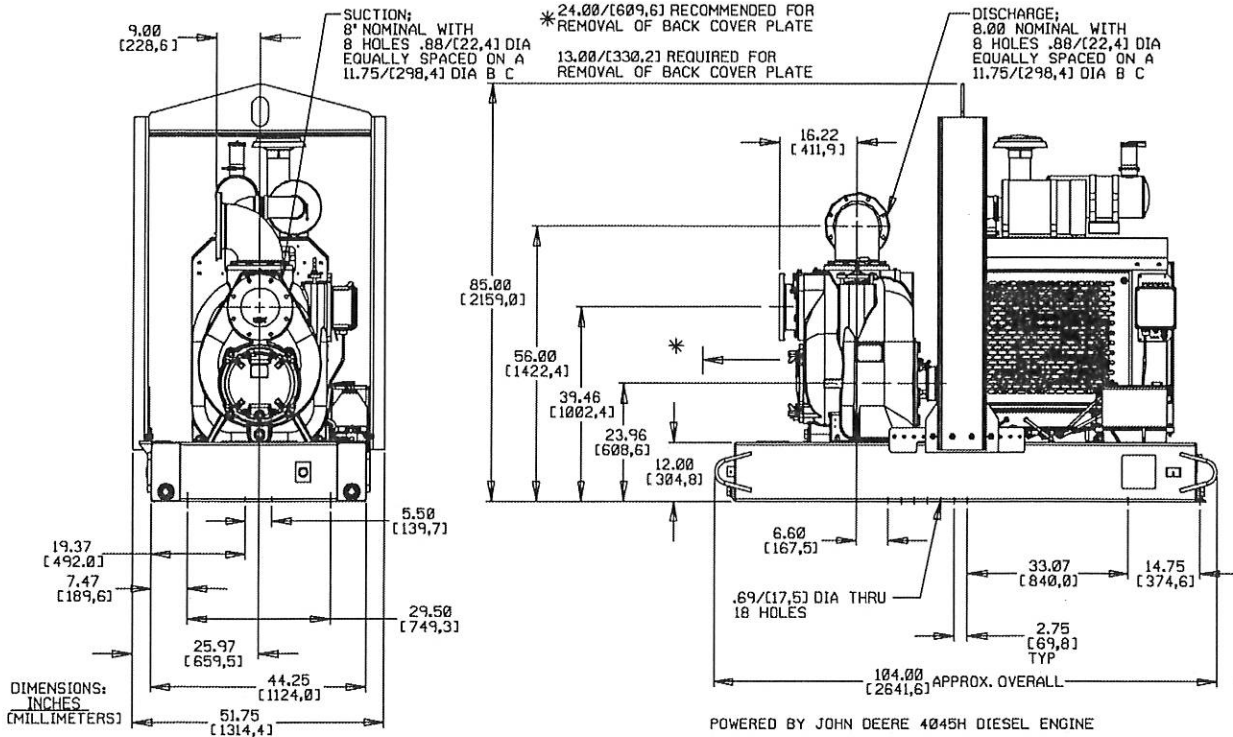
SECTION 45, PAGE 1660

APPROXIMATE DIMENSIONS and WEIGHTS

NET WEIGHT:  
SHIPPING WEIGHT:  
EXPORT CRATE SIZE:

SKID BASE  
4280 LBS. (1941 KG.)  
4480 LBS. (2032 KG.)  
335 CU. FT. (9,5 CU. M.)

2-WHEEL  
4745 LBS. (2152 KG.)  
4745 LBS. (2152 KG.)



GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed In U.S.A.

B 17719

10.81  
[274,6]

DISCHARGE:  
8.00-8 NPT

SUCTION:  
8.00-8 NPT

18.06  
[458,7]

VARIOUS  
ENGINE  
OPTIONS  
AVAILABLE

ADJUSTABLE  
3.00/[76,2] I.D.  
LUNETTE EYE

76.81  
[1951,0]  
APPROX.

60.21  
[1529,3]  
APPROX.

44.71  
[1135,6]  
APPROX.

20.71  
[526,0]  
APPROX.

31.40  
[797,6]

62.81  
[1595,4]

71.25  
[1809,8]

83.21  
[2113,5]  
APPROX.  
DEUTZ

95.71  
[2431,0]  
APPROX.  
JOHN DEERE

29.37  
[745,6]

33.90  
[861,1]

133.71  
[3396,2]


136.37 APPROX.  
[3463,8] OVERALL

\* 24.00/[609,6] RECOMMENDED FOR  
REMOVAL OF BACK COVER PLATE

13.00/[330,2] REQUIRED FOR  
REMOVAL OF BACK COVER PLATE

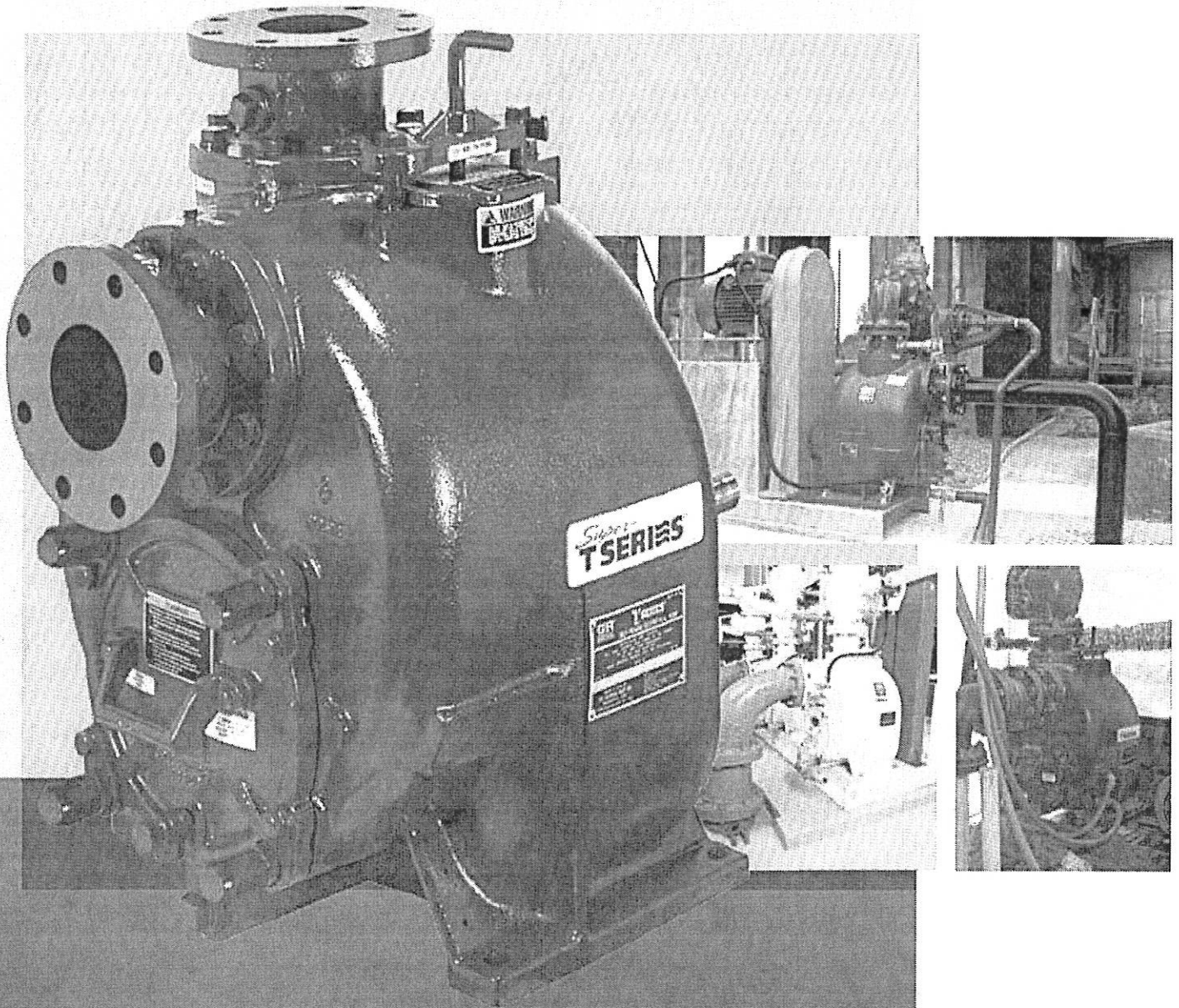
SHOWN ON 88 GALLON INTEGRAL FUEL TANK BASE  
WITH OPTIONAL GRP30-255 WHEEL KIT

DIMENSIONS:  
INCHES  
[MILLIMETERS]

 <b>THE GORMAN-RUPP CO.</b> MANSFIELD, OHIO ST. THOMAS, ONTARIO	DRAWN BY SS	SCALE 3/64	MODEL T8A60S
	DATE 2-11-05	REVISED 7-3-07	OUTLINE NUMBER 17719

07-024

*Super*  
**T SERIES**



**SUPER T SERIES®**  
*Self-Priming, Solids-Handling  
Trash Pumps*

**GR**  
**GORMAN-RUPP**  
**PUMPS**

*The Pump People®*