

CITY OF HIGH POINT

AGENDA ITEM



Title: United Rentals - Thompson 32 GPM Hydraulic Power Unit

From: Terry Houk – Public Services Director
Derrick Boone – Asst. Director Public Services
Joe Holden- W/S Mains Superintendent

Meeting Date: August 2, 2021

Public Hearing: No

Advertising Date: N/A

Advertised By: N/A

Attachments: Attachment A – Quote
Attachment B- Thompson 32 GPM Hydraulic Power Unit Brochure
Attachment C- Sole Source Letter and Sole Source Request Form

PURPOSE:

For the sole source purchase of a Thompson 32 GPM Hydraulic Power Unit for the Water and Sewer Mains Division of the Public Services Department.

BACKGROUND:

The Water and Sewer Mains Division has an existing Thompson 32 GPM Hydraulic Power Unit and two pump heads. The hydraulic power unit and one of the pump heads has now been permanently installed at the Riverdale Pump Station for flood mitigation. The purchase of an additional Thompson 32 GPM Hydraulic Power Unit will allow the W/S Mains Division to utilize the additional pump head for the emergency bypassing of sanitary sewer flows and to serve as a backup to the unit at the Riverdale Pump Station. The Public Services Department is purchasing the Thompson 32 GPM Hydraulic Power Unit as a sole source to standardize with the existing Thompson 32 GPM Hydraulic Power Unit and pumping heads. United Rentals is the exclusive sales and service representative for Thompson Pumps.

BUDGET IMPACT:

Funding is available in the 2021-2022 Budget.

RECOMMENDATION / ACTION REQUESTED:

City Council is requested to approve a sole source purchase of \$41,946.00 to United Rentals.



Experience Innovation

Model: 32 GPM Hydraulic Power Unit

Name: 32HPU

Thompson hydraulic power units, used in conjunction with hydraulic submersible pumps, provide a powerful answer when high heads or high lifts become a factor on job sites. These unique variable speed and variable flow hydraulically driven submersible pumps and power units are manufactured from heavy-duty cast iron and steel for high reliability. The Thompson design allows for maximum versatility in dewatering applications and pumping materials.



Photo shown may not be exact model.
Consult factory for other options.

Pump Materials	
Pump	HDP30.61, positive displacement, external gear type, single pump, 3.72 in ³ displacement.
Control Valve	Needle type.
Relief Valve	Pump mounted, internally pilot operated, pressure compensated with vent provision and pressure gauge for system diagnostics.
Reservoir	Fabricated steel, with internal baffles, large access port, drain valve, sight glass level and temperature gauge, air vent, sump strainer, and shutoff valve.
Sump Strainer	100 mesh spin on type.
Return Filter	60 gpm at 5 psi backpressure, 25 micron, in tank mounted with internal bypass at 25 psi, integral filler/breather
Hydraulic Coupling	<u>Delivery:</u> 1" female Snap-Tite 75 series quick disconnect with dust plug; <u>Return:</u> 1.25" female Snap-Tite 75 series quick disconnect with dust plug; <u>Bypass:</u> .50" female Snap-Tite 75 series quick disconnect with dust plug
Safety Shutdowns	Low hydraulic fluid level; high hydraulic fluid temperature.
Options	Aeroquip 5100 series quick disconnects, ISO46 Blue 10 #40240 hydraulic fluid, bio-degradable #40779, environmentally friendly hydraulic fluid, hydraulic hose racks or reels, discharge hose racks.

Technical Specifications

Maximum Hydraulic Flow	34 gpm (7.72 m ³ /hr)	Approximate Dry Weight	4,600 lbs (2,086.52 kg)
Maximum Operating Pressure	2,800 psi (19.305 MPa)	Maximum Operating Speed	2,300 rpm

Fuel Tank Options*	Deutz		Cummins
Integral	62 Gal	31 Hours	29 Hours
Modular (M)	100 Gal	50 Hours	48 Hours

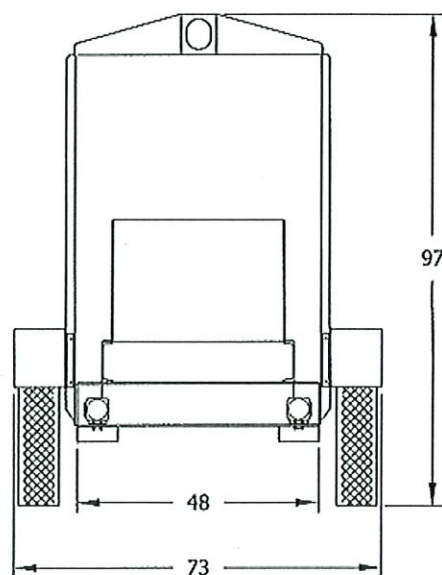
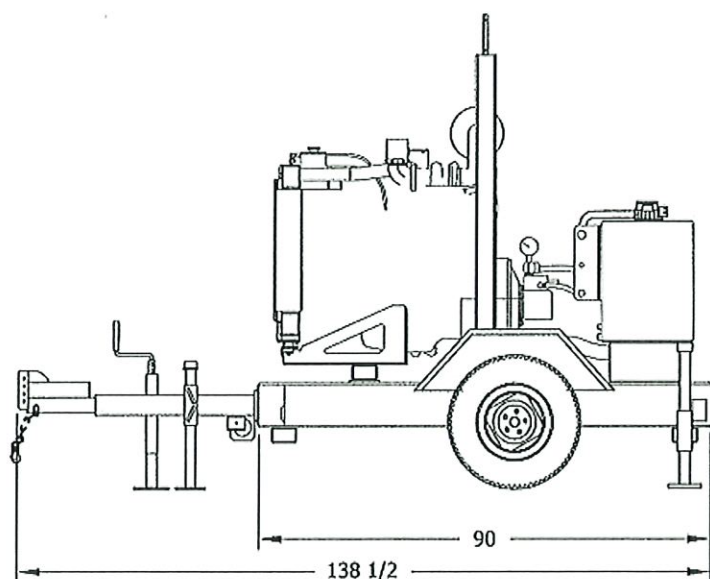
*Contact factory for fuel tank sizes not listed above.

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
sales@thompsonpump.com

Jul-20

Engine Speed	Continuos Power	Delivered Hydraulic Flow	Maximum Pressure
RPM	HP	GPM	PSI
1300	52.3	20	2800
1400	56.6	21	2800
1600	63.6	24	2800
1800	68.2	27	2800
2000	70.1	30	2800
2200	71.6	33	2800
2300	69.6	34	2770



Deutz TD3.6L4— 74 hp @ 2,400 rpm		
Typical Operating Speed		2,300 rpm
Maximum Fuel Consumption		3.84 gph (13.38 L/hr)
Engine Speed	Fuel Economy	Run Time*
2,300 rpm	0.387 lb/hp-hr	16 hrs
1,800 rpm	0.366 lb/hp-hr	22 hrs
1,300 rpm	0.359 lb-hp-hr	31 hrs

Cummins QSF2.8—74 hp @ 2,400 rpm		
Typical Operating Speed		2,300 rpm
Maximum Fuel Consumption		4.69 gph (17.75 L/hr)
Engine Speed	Fuel Economy	Run Time*
2,300 rpm	0.376 lb/hp-hr	16 hrs
1,800 rpm	0.369 lb/hp-hr	21 hrs
1,300 rpm	0.380 lb-hp-hr	29 hrs

*Engine run times calculated based on a 62 gallon fuel tank.

Specifications and illustrations are subject to revision without notice and without incurring any obligation for previous or subsequent equipment sold. Thompson Pump (ISO 9001:2015) 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.



FLUID SOLUTIONS
BRANCH 60A
5600 UNION ROAD
GASTONIA NC 28056
704-691-3111
704-864-7257 FAX



EQUIPMENT SALE QUOTE

195076755

Job Site

CITY WORKS OFFICE
816 E GREEN DR
HIGH POINT NC 27260-6714

Office: 336-883-3466 Cell: 336-803-2227

CITY OF HIGH POINT
PO BOX 230
HIGH POINT NC 27261-0230

Customer # : 2185
Quote Date : 06/21/21

UR Job Loc : 816 E GREEN DR, HIGH
UR Job # : 28
Customer Job ID:
P.O. # : TBD
Ordered By : JOE HOLDEN
Written By : SAMUEL GOODNIGHT
Salesperson : SAMUEL GOODNIGHT

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

Qty	Equipment #	Price	Amount
1	5209714 CC: 520-9714 74HP TMSN 32HPU HYDRAULIC POWER UNIT Quote on a new Thompson 32 HPU pump with basket designed to carry 60HST pump head ***** Pump comes with 1 year warranty from factory. DELIVERY CHARGE	40346.00	40346.00
			1600.00
			Sub-total: 41946.00
			Tax: 2831.36
			Total: 44777.36

CONTACT: JOE HOLDEN
CELL#: 336-803-2227

The customer is responsible for any and
all taxes, tariffs or associate fees in
the transport of equipment quote on
delivery is based on time of quote.

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.

Financial Services

Purchasing Division



Requisition #

NORTH CAROLINA'S INTERNATIONAL CITY™

CITY OF HIGH POINT
SOLE SOURCE JUSTIFICATION FORM
(For Items Costing \$10,000.00 or More)
Statutory Reference N.C.G.S. 143-129(e)6

Vendor: **United Rental**

Item(s): **Thompson 32 GPM Hydraulic Power Unit**

Justification:

The Water and Sewer Mains Division has an existing Thompson 32 GPM Hydraulic Power Unit and two pump heads. The hydraulic power unit and one of the pump heads has now been permanently installed at the Riverdale Pump Station for flood mitigation. The purchase of an additional Thompson Power Unit will allow the City to use the additional pump head for the emergency bypass of sewer flow and to serve as a back up.

Estimated expenditure for the above item(s): **\$41,946.00**

Accounting Unit and Account(s):

621754 533101

CHECK ALL ENTRIES BELOW THAT APPLY TO THE PROPOSED PURCHASE.
ATTACH A MEMO CONTAINING JUSTIFICATION AND SUPPORT DOCUMENTATION.

1. ☐ Performance or price competition for a product are not available.
2. ☒ A needed product is available from only one source of supply.
3. ☒ Standardization or compatibility is the overriding consideration.
4. ☒ The parts/equipment are required from this source to permit standardization.
5. ☐ None of the above applies. A detailed explanation and justification for this sole source request is contained in attached memo and support documentation.

The undersigned requests that competitive procurement be waived and that the vendor identified as the supplier of the material or service described in this sole source justification be authorized as a sole source for the material or service.

Department Head/Authorized Personnel

Derrick Boone

Digitally signed by Derrick Boone
Date: 2021.07.22 09:40:24 -04'00'

Department/Division

Public Services/WS Mains

Date

7/22/21

APPROVAL PROCESS

Purchasing Manager

Erik S. Conti

Digitally signed by Erik S. Conti
Date: 2021.07.22 10:53:38 -04'00'

Financial Services Director

Bobby Fitzjohn

Digitally signed by Bobby Fitzjohn
Date: 2021.07.22 10:57:07 -04'00'

City Council (\$30,000 – Up)