

February 22, 2024

CITY OF CARTERSVILLE PO BOX 1390 CARTERSVILLE GA 30120-1390

Quote # 2024-ATL-0134

Project Name: CITY OF CARTERSVILLE Job Name: WO-00259148 / Main Street

Xylem Water Solutions USA, Inc. Flygt Products

90 Horizon Drive Suwanee, GA 30024 Tel (770) 932-4320 Fax (770) 932-4321

Xylem Water Solutions USA, Inc. is pleased to provide a quote for the following Flygt equipment.

3152.181-9820084

Qty Description

Flygt Model NP-3153.185 4" volute Submersible pump equipped with a 460 Volt / 3 phase / 60 Hz 23 HP 3550 RPM motor, 275 impeller, 1 x 50 Ft. length of SUBCAB 4G10+S(2x0,5) submersible cable, FLS leakage detector, volute is prepared for Flush Valve

3152.181-9820084 Price USD \$ 21,700.00

Recommended Services

Qty Description Total Price
1 START UP,FLYGT,NO TAX 1-TP MODELS: 3000,7000,8000 \$1,575.00

Recommended Services: \$ 1,575.00

Total Equipment: \$21,700.00

Freight: \$ 1,188.00

Subtotal Equipment + Freight: \$22,888.00 Recommended Services : \$1,575.00

Total with Recommended Services : \$24,463.00

Terms & Conditions

This order is subject to the Standard Terms and Conditions of Sale – Xylem Americas effective on the date the order is accepted which terms are available at http://www.xyleminc.com/en-us/Pages/terms-



<u>conditions-of-sale.aspx</u> and incorporated herein by reference and made a part of the agreement

between the parties.

Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc. Freight Terms: 3 DAP - Delivered At Place 08 - Jobsite (per IncoTerms 2020)

See Freight Payment (Delivery Terms) below.

Taxes: State, local and other applicable taxes are not included in this quotation.

Back Charges: Buyer shall not make purchases nor shall Buyer incur any labor that would result

in a back charge to Seller without prior written consent of an authorized employee

of Seller.

Shortages: Xylem will not be responsible for apparent shipment shortages or damages

incurred in shipment that are not reported within two weeks from delivery to the jobsite. Damages should be noted on the receiving slip and the truck driver advised of the damages. Please contact our office as soon as possible to report

damages or shortages so that replacement items can be shipped and the

appropriate claims made.

Validity: This Quote is valid for thirty (30) days.

Terms of delivery: Freight PP/Line Item

Time of delivery: We currently have ONE in stock in USA for immediate delivery!!

Terms of payment: 100% N60 after invoice date - upon acceptance of purchase order and

credit review

Please note: If this is an FM Factory certified product it must be serviced by an EX/FM Flygt manufacture trained technician through an approved Xylem Flygt repair shop to retain qualifying status of product to retain the "EX/FM" designation.

Our current delivery lead-times are forecasted estimates only due to the outbreak of the COVID-19 virus pandemic and its global effects on commerce, supply chain, and logistics. Xylem will, however, use all commercially reasonable efforts to minimize any delivery delay impacts.

Thank you for the opportunity to provide this quotation. Please contact us if there are any questions.

Sincerely,

Kirsten Royals

Senior Customer Support Coordinator

Cell: 404-831-4726

FLYGT
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kirsten.royals@xylem.com Fax: 770-932-4321





Xylem Water Solutions USA, Inc. Flygt Products

Customer Acceptance

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Purchase Orders: Please make purchase orders out to: Xylem Water Solutions USA, Inc.

A signed copy of this Quote is acceptable as a binding contract.

Customer Name:	2024-ATL-0134 CITY OF CARTERSVILLE WO-00259148 / Main Street	
☐ Accept Equipment : ☐ Accept Equipment,	•	Total Amount: \$ 22,888.00
Recommended Service	•	Total Amount: \$ 24,463.00
Signature:		Name:
		(PLEASE PRINT)
Company/Utility:		PO:
Address:		Date:
		Phone:
		Email:

Fax:

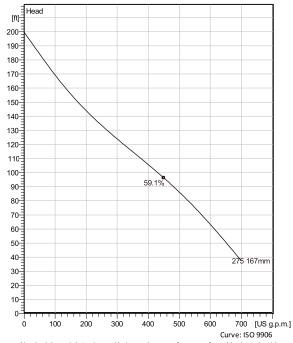
Patented self cleaning semi-open channel impeller, ideal for pumping in waste water applications. Modular based design with high adaptation grade.



Technical specification



Curves according to: Water, pure Water, pure [100%],39.2 °F,62.42 lb/ft³,1.6891E-5 ft²/s



Nominal (mean) data shown. Under- and over-performance from this data should be expected due to standard manufacturing tolerances. Please consult your local Flygt representative for performance guarantees.

Configuration

Motor number N3153.185 21-18-2BB-W

Impeller diameter 167 mm Installation type P - Semi permanent, Wet

Discharge diameter 3 inch

Pump information

Impeller diameter 167 mm

Discharge diameter

3 inch

Inlet diameter

150 mm

Maximum operating speed

3510 rpm

Number of blades

2

Max. fluid temperature

40 °C

Project Xylect-21891666

Block

91666

Created by Created on

Material

Impeller Hard-Iron ™

Dan Joyce

2/22/2024 Last update

2/22/2024

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Technical specification



Motor - General

Motor number N3153.185 21-18-2BB-W 23hp

ATEX approved

Frequency 60 Hz

Version code 185 Phases 3~

Number of poles

Rated voltage 460 V Rated speed 3510 rpm

Rated current 26 A

Insulation class

Rated power 23 hp

Stator variant

Type of Duty

Motor - Technical

Power factor - 1/1 Load

Power factor - 3/4 Load

0.87

Power factor - 1/2 Load 0.79

Motor efficiency - 1/1 Load

 $\begin{array}{l} \textbf{Motor efficiency - 3/4 Load} \\ 91.5 \ \% \end{array}$

Motor efficiency - 1/2 Load

91.5 %

Total moment of inertia 0.729 lb ft²

Starting current, direct starting 207 A

Starting current, star-delta 69 A

Starts per hour max.

30

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 2/22/2024

 Program version
 Data version
 User group(s)

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 Xylem: USA-INT

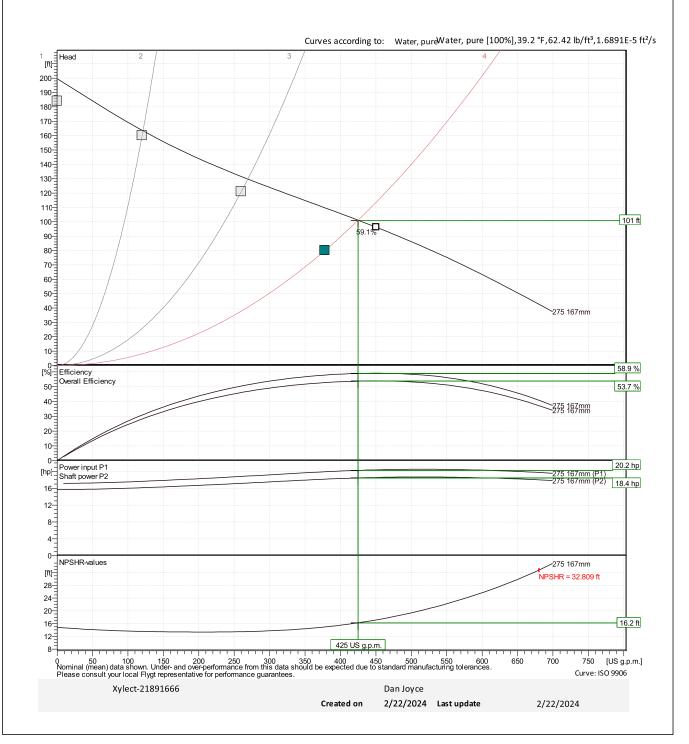
Performance curve

Duty point

 Flow
 Head

 425 US g.p.m.
 101 ft

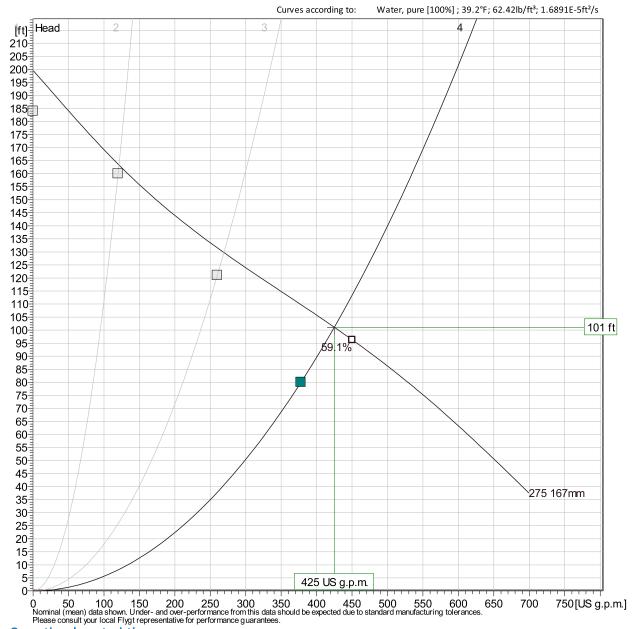




Duty Analysis



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Pumps /	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Spec. Energy	NPSHre
Systems	US g.p.m.	ft	hp	US g.p.m.	ft	hp		kWh/US N	ИG ft
4	425	101	18.4	425	101	18.4	58.9 %	592	16.2
3	269	130	17.2	269	130	17.2	51.3 %	872	13.5
2	121	163	16.1	121	163	16.1	31 %	1810	13.5

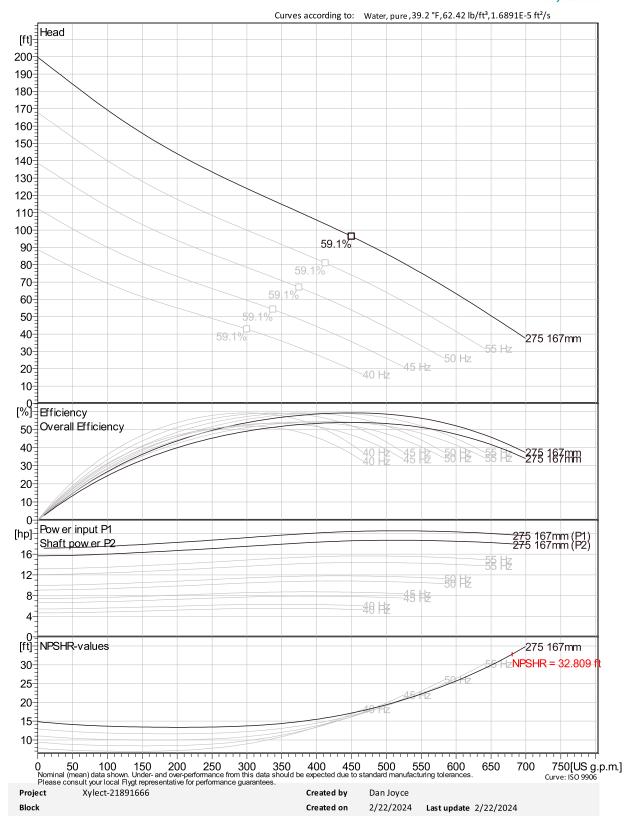
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Operating characteristics

VFD Curve

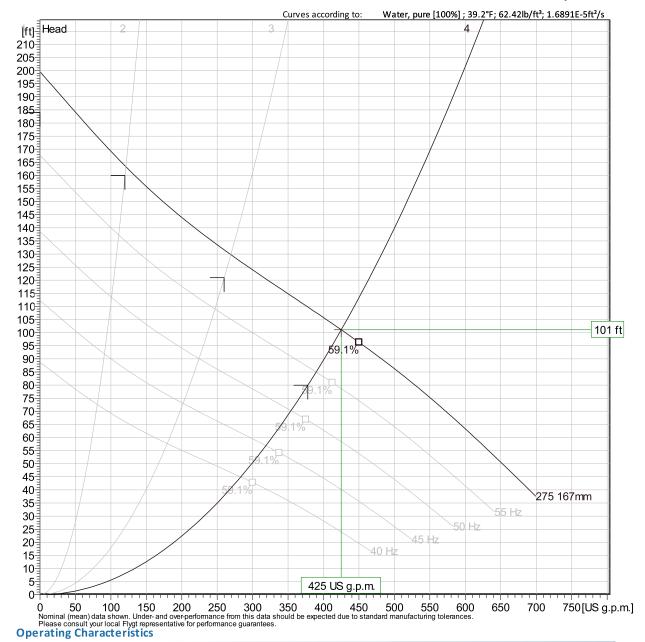




VFD Analysis



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Pumps /	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific energy	NPSHre
Systems		US g.p.m.	ft	hp	US g.p.m.	ft	hp		kWh/US MG	ft
4	60 Hz	425	101	18.4	425	101	18.4	58.9 %	592	16.2
4	55 Hz	390	85	14.2	390	85	14.2	58.9 %	493	14.1
4	50 Hz	354	70.2	10.7	354	70.2	10.7	58.9 %	409	12.1
4	45 Hz	319	56.9	7.78	319	56.9	7.78	58.9 %	336	10.2

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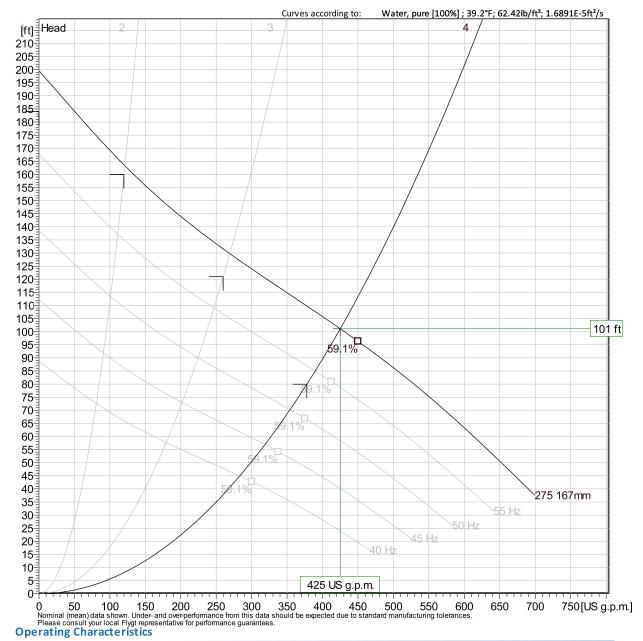
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VFD Analysis







Pumps /	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific energy	NPSHre
Systems		US g.p.m.	ft	hp	US g.p.m.	ft	hp		kWh/US MG	ft
4	40 Hz	283	44.9	5.47	283	44.9	5.47	58.9 %	274	8.49
3	60 Hz	269	130	17.2	269	130	17.2	51.3 %	872	13.5
3	55 Hz	247	109	13.3	247	109	13.3	51.3 %	728	11.7
3	50 Hz	224	90.1	9.98	224	90.1	9.98	51.3 %	605	10.1

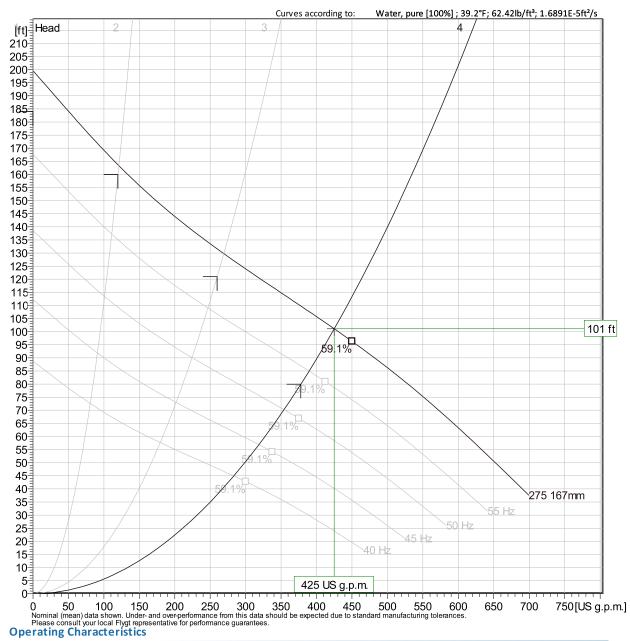
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VFD Analysis



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Pumps /	Frequency	Flow	Head	Shaft power	Flow	Head	Shaft power	Hydr.eff.	Specific energy	NPSHre
Systems		US g.p.m.	ft	hp	US g.p.m.	ft	hp		kWh/US MG	ft
3	45 Hz	202	73	7.27	202	73	7.27	51.3 %	498	8.52
3	40 Hz	179	57.7	5.11	179	57.7	5.11	51.3 %	407	7.06
2	60 Hz	121	163	16.1	121	163	16.1	31 %	1810	13.5
2	55 Hz	111	137	12.4	111	137	12.4	31 %	1510	11.8

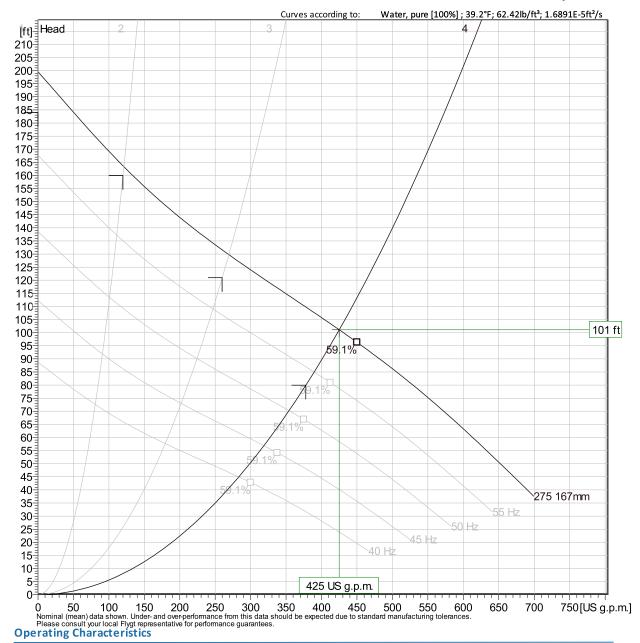
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VFD Analysis



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Shaft power Head Shaft power Hydr.eff. Specific energy Pumps / Systems Frequency Flow Head Flow NPSHre ft US g.p.m. hp kWh/US MG US g.p.m. hp 2 50 Hz 101 113 9.34 101 113 9.34 31 % 1260 10.1 45 Hz 90.9 91.9 6.81 90.9 91.9 6.81 31 % 1040 8.55 2 2 40 Hz 80.8 72.6 4.78 80.8 72.6 4.78 31 % 852 7.08

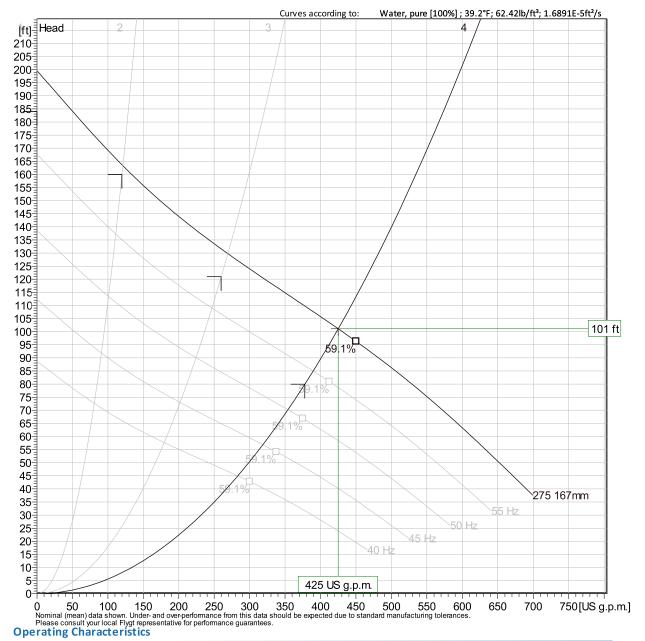
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60 Hz

VFD Analysis



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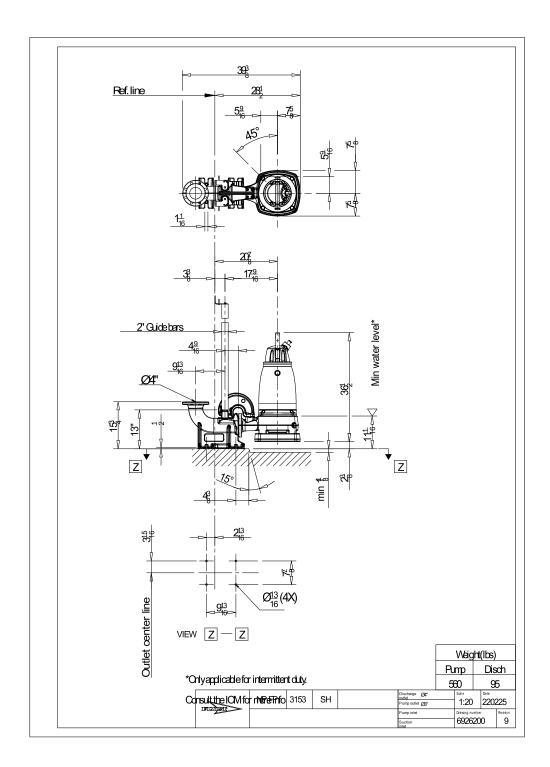


Pumps / Systems	Frequency	Flow US g.p.m.	Head ft	Shaft power hp	Flow US g .p.m.	Head ft	Shaft power hp	Hydr.eff.	Specific energy kWh/US MG	NPSHre ft
1	55 Hz									
1	50 Hz									
1	45 Hz									
1	40 Hz									

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Dimensional drawing





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