Dollar Amount	Quotes or Bids	Purchase Order or Contract	Minimum Signing Authority
Up to \$5,000	No Quotes Required	Not Required	Department Head
	FOR THE FOLLOWING AMOU	INTS, PLEASE USE THE CHEC	CKLIST
\$5,000+ to \$50,000	Request and Document a minimum of 3 price comparisons	Written Purchase Order or Contract approved by County Counsel	Department Head
\$50,000+ to \$100,000	Request and Document a minimum of 5 Sealed Bids or RFP	Written Purchase Order or Contract approved by County Counsel	Department Head
\$100,000+	Request and Document a minimum of 5 Sealed Bids or RFP	Written Purchase Order or Contract approved by County Counsel	Board Chairman, unless delegated

	STEP ONE: Department Requests Solicitation Number (Send Checklist to Admin via Interoffice mail or to LakeCountyPurchasingAgent@lakecountyca.gov)				
Department: Special Districts	Fund: 255	Budget Unit: 8355			
Project Name/Description: Submersible					
Exemption Code: None (A) Contact Name: Elena Villanueva	Email: specialdist.p				
STEP TWO: Admin Assigns Solicitat (Administrative Office assigns and returns to Department of the Company of th					
Assigned Solicitation Number:					
STEP THREE: Administration Office (Department submits documents to Administration)					
Date Received by Admin:		Appropriate documentation received			
Exemption Approved? YES NO N/A	Documented Atter	mpts/Responses Attached? YES 🔲 NO 🗌			
Admin Changes Requested? NO	YES Date Retu	rned to Dept:			
Notes:					
Date re-submitted to Admin:	,	Appropriate documentation received			
Admin Approval (Name / Date):					
STEP FOUR: Department Next Steps (Department to complete, keep Checklist with fine		ted)			
County Counsel Approval (if not on con	ntract) Signature:				
☐ To Auditor (copy of final documents, incl	luding Checklist)				



DXP Enterprises, Inc. THE INDUSTRIAL DISTRIBUTION EXPERTS

Mr. Allen Miller

September 23, 2024

Lake County Special Districts 1155 Whalen Way Clearlake, CA 95422

Dear Allen,

Thank you for the opportunity to quote a submersible pump assembly for your NW2 lift station. We are pleased to offer you the following proposal for a new KSB submersible pump assembly:

- KSB KRT K 150-503/1554XNG-S submersible pump assembly
 - Adapter claw to install pump with 8" Flygt pump installation accessories (the KSB pump has a 6" discharge connection. With this adapter claw we will mate up to the 8" Flygt installation accessories)
 - o Cast iron configuration
 - o Kmax two vane enclosed impeller
 - Case wearing
 - o 2 mechanical seals in tandem. Silicon carbide running faces, NBR elastomers
 - o Motor: 208 hp, 3/60/460, IP68, explosion proof, 1779 rpm
 - o Rated for 1750 gpm, 248 ft at 73.5% efficiency
- Non-witness hydraulic performance test
- PumpSafe Relay

We are pleased to offer the following pricing:

Price	
\$ 103,330.95	
\$ -9,041.46	\$7491.49
\$ 8,000.00	
-\$ 120,372.40	\$118822:44
	\$ 103,330.95 \$ -9,041.46 \$ 8,000.00

Lead time is 12 weeks after release to manufacturing. We are excited about this opportunity. Please reach out with any questions and thank you again.

Scott Davis
Pump Sales Engineer

Mobile: (510) 447-0703 Scott.Davis@dxpe.com

		5"

Data sheet



Customer item no.:

Communication dated: 06/08/2024

Doc. no.: CR240805A

Quantity: 1

KRTK 150-503/1554XNG-S

Number: ES 8003109547

Item no.: 100 Date: 19/08/2024 Page: 1 / 6

Version no.: 1

Operating data

Requested flow rate Requested developed head

Pumped medium

Pumped medium details

Ambient air temperature Fluid temperature

Fluid density

Fluid viscosity

1750.00 US GPM

Clean water

Not containing chemical and

affect the materials

68.0 °F 68.0 °F

62.303144 lb/ft3

0.0015 in 2/s

Vertical

unmachined

Actual flow rate

Efficiency Power absorbed Pump speed of rotation

Shutoff head Max. power on curve

Design

1750.56 US GPM Actual developed head 248.16 ft

73.5 % 149.12 HP 1785 rpm 337.01 ft

178.43 HP

Single system 1 x 100 %

Design

Design Orientation

Suction flange pump drilled according to(DN1)

Discharge flange pump drilled according to(DN2)

Shaft seal

Shaft seal manufacturer

Type

Material code

248.00 ft Water

mechanical substances which

Close-coupled submersible

EN 1092-2 / DN 150 / PN 10

arrangement with oil reservoir

2 mech, seals in tandem

Performance test

Yes

Impeller type

Wear ring Impeller diameter

Free passage size Direction of rotation from drive

Temperature sensor PT100

inboard Color

Motor winding

Motor version

Cable design

Cable entry

Power cable

Control cable

Moisture sensor

Connection mode

Motor cooling method

Number of power cables

Number of control cables

Float switch mechanical seal

Multivane radial flow impeller

(K-max)

Casing wear ring 16.69 in 3 in Clockwise With

> Ultramarine blue (RAL 5002) KSB-blue

Driver, accessories

Driver type Model (make)

Motor const. type NEMA code letter Frequency

Rated voltage Rated power P2 Available reserve Rated current

Starting current ratio Insulation class Type of protection

Motor enclosure Cos phi at 4/4 load Motor efficiency at 4/4 load

Motor service factor Temperature sensor Electric motor

SIC/SIC/NBR

KSB

KSB

MG

KSB Sub. motor

60 Hz 460 V 208.01 HP 16.58 % 232.0 A

6.1 H according IEC 34-1

XP/I/1/CD IP68 0.90 93.3 % 1.15

Bimetal switch / PTC

460 V

Number of poles Direct-on-line starting Starting mode

Delta

Surface cooling

Х

Rubber hose

Sealed along entire length

AWG 1/0-4

AWG 15-10

With

With

65.62 ft Cable length

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			8	

Data sheet



Customer item no.:

Communication dated: 06/08/2024

Doc. no.: CR240805A

Quantity: 1

KRTK 150-503/1554XNG-S

Number: ES 8003109547

Item no.: 100 Date: 19/08/2024 Page: 2 / 6

Version no.: 1

Materials G

Notes

General criteria for a water analysis: pH-value >= 6,5; chloride content (CI) <=250 mg/kg. Chlorine (CI2) <=0.6 mg/kg.

Pump casing (101)

Discharge cover (163)

Shaft (210)

Impeller (230) Bearing bracket (330) Cast iron A 48 Class 35 B Cast iron A 48 Class 35 B Chrome steel ASTM A276

Type 420 T Cast iron A 48 Class 35 B Cast iron A 48 Class 35 B O-Ring (412)

Casing wear ring (502.1) Shaft protecting sleeve (524) Motor housing (811)

Motor cable (824) Screw (900)

Nitrile rubber NBR

Cast iron A 48 Class 35 B Chrome steel A 276 Type 420 Cast iron A 48 Class 35 B

Chloroprene rubber

Stainless steel A 193 B8M

Packaging

IPPC Standard ISPM 15 Packaging category

Yes B1 Wooden or plywood case, cover provided with

polyproylene cellular sheet, outdoor storage up to 3

months Indoor

Ship Packaging for transport

Outdoor storage at -40 °C to +50°C for up to 3 months. Packet must be covered. No corrosion protection, only transport

protection.

Packaging for storage

Nameplates

Nameplates language

International

Duplicate nameplate

With

Certifications

Hydraulic performance test

Acceptance standard Quantity meas. points Q-H

Certificate

ANSI HI 2B

Inspection cert. 3.1 to EN

10204

Non-witnessed Test participation

Quantity, non-witnessed Quantity, witnessed

0

Installation parts

Installation type Scope of supply stationary 2 guide rail Pump with installation parts For guide rail arrangements,

the guide rails are not included in KSB's scope of supply.

14.76 ft

Installation depth G Material concept

Duckfoot bend

Without

Claw

Without

Lifting chain / -rope Lifting Bail

Without With

S4			9	
			P	
		v.		

Performance curve



Customer item no.:

Communication dated: 06/08/2024

Doc. no.: CR240805A

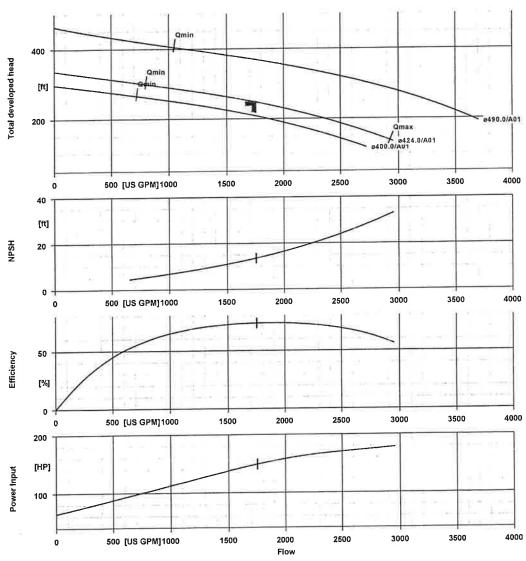
Quantity: 1

KRTK 150-503/1554XNG-S

Number: ES 8003109547

Item no.:100 Date: 19/08/2024 Page: 3 / 6

Version no.: 1



Curve data

Speed of rotation 1785 rpm
Fluid density 62.303144 lb/ft³
Viscosity 0.0015 in²/s
Flow rate 1750.56 US GPM
Requested flow rate 1750.00 US GPM
Total developed head 248.16 ft
Requested developed head 248.00 ft

Efficiency 73.5 %
Power absorbed 149.12 HP
NPSH 3% 13.52 ft
Curve number K43629/0
Effective impeller diameter
Acceptance standard ANSI HI 2B

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			× ÷
*			
		8	

Motor data sheet



Customer item no.: Communication dated: 06/08/2024

Doc. no.: CR240805A

Quantity: 1

Motor data

Number: ES 8003109547

Item no.:100 Date: 19/08/2024 Page: 4 / 6

Version no.: 1

KRTK 150-503/1554XNG-S

Motor manufacturer Motor size Motor construction type Motor material Efficiency class Rated voltage Frequency	KSB 155N KSB Sub. motor Grey cast iron EN-GJL-250 not classified 460 V 60 Hz 208.01 HP	Starting mode Power cable Number of power cables Power cable Ø min. Power cable Ø max. Control cable Number of control cables Ctrl. cable diameter, min.	Direct-on-line starting AWG 1/0-4 2 1.37 in 1.45 in AWG 15-10 1
Motor power	208.01 HP		
Rated current	232.0 A	Ctrl. cable diameter, max	0.67 in
Rated speed	1779 rpm	Cable standard	NEC

Rated current	232.0 A	Ctrl. cable diamete	r, max。 0.67 in NEC	
Rated speed	1779 rpm	Cable standard Switching frequence		1
Starting current ratio	6.1	Switching frequenc	y 10.00 1/1	
Curve data	erentee point within the meaning	of IEC 60034		
	arantee point within the meaning 25.0 %	50.0 %	75.0 %	100.0 %
		104.00 HP	156.00 HP	208.01 HP
4000		1789 rpm	1784 rpm	1779 rpm
n 1800 rpr P1 7.55 HP		112.24 HP	166.82 HP	223.01 HP
	81.0 A	121.0 A	172.0 A	232.0 A
I 51.0 A	87.9 %	92.7 %	93.5 %	93.3 %
Eta 0.0 %	0.68	0.87	0.91	0.90
cos phi 0.14	0.00	0.07	· · · · · · · · · · · · · · · · · · ·	
1800				
				N
[rpm]		7 7		n n
1770 20 [HP] 4	0 60 80 100	120 140	160 180 20	0 220
20 [11] 4				
			1. 1	-
		2 1 2 V		/ P1
			1 1 1	
400 - 200				2.0 -200
1 1		/		
				1.5 -150
300 - 150				1.5
	and the second second			
		/		
217 0 8				1.0 -100
200 - 100	eta			
	cos phi			
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[A] [HP]			22	
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				0.5 -50
100 - 50				1 201
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			A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0 0 1				0.0 -0
0 20 [HP] 4	10 60 80 100	120 140	160 180 2	00 220

mechanical power P2

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and the second second				
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Installation plan

KSB **6.**

Customer item no.:

Communication dated: 06/08/2024

Doc. no.: CR240805A

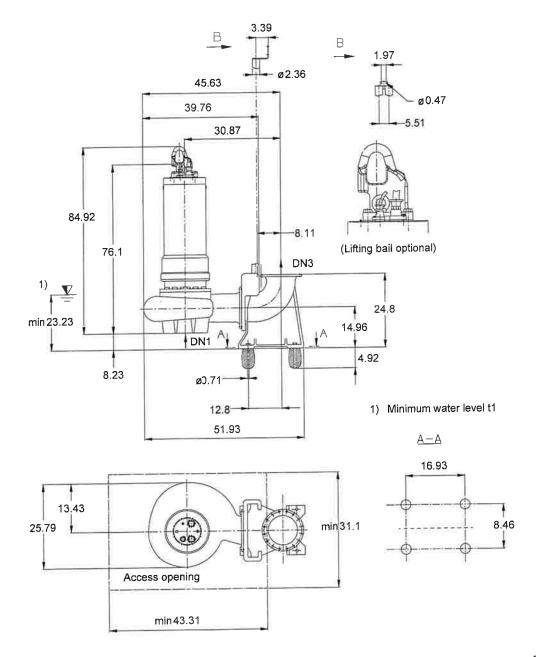
Quantity: 1

KRTK 150-503/1554XNG-S

Number: ES 8003109547

Item no.:100 Date: 19/08/2024 Page: 5 / 6

Version no.: 1



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*	

Installation plan



Customer item no.:

Communication dated: 06/08/2024

Doc. no.: CR240805A

Quantity: 1

KRTK 150-503/1554XNG-S

Number: ES 8003109547

Item no.:100 Date: 19/08/2024

Page: 6 / 6 Version no.: 1

Motor

Motor manufacturer

Motor size

Motor power

Number of poles

Speed of rotation

Motor enclosure

KSB 155N

208.01 HP

1779 rpm

IP68

Connections

Suction flange pump drilled

according to(DN1)

Discharge flange pump drilled

EN 1092-2 / DN 150 / PN 10

unmachined

according to(DN2)

Weight net

Pump, Motor, Cable, Claw

3602 lbm

Total

3602 lbm

For auxiliary connections see

separate drawing.

Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height: DIN 747 Dimensions without tolerances, middle tolerances to:

Connection dimensions for pumps:

Dimensions without tolerances - welded parts: Dimensions without tolerances - gray cast iron parts:

Dimensions without tolerances - stainless steel parts:

ISO 2768-m EN735

ISO 13920-B

ISO 8062-CT11

ISO 8062-CT12

				м.



October 1, 2024

ATTN: Allen Miller - Lake County

QUOTE: CE071-24-204 Project: Lake County

We are pleased to provide pricing for the following equipment:

Qty	Description	Each	Total
1	KSB submersible pump assembly model number KRT K 150-503/1554XNG-S Cast iron material Enclosed impeller Case wearing Dual Mechanical seals 208 hp, 3/60/460, IP68, explosion proof, 1779 rpm motor Conditions of service: 1750 gpm, 248 ft at 73.5% efficiency Non-witness hydraulic performance test PumpSafe Relay	\$ 113,737.00	
1	Tax (7.25%)	\$ 8,245.93	\$ 8,245.93
1	Shipping	\$ 8,000.00	\$ 8,000.00
Dloace	reference CE071-24-204 when placing order.	Total:	\$129,982.93

Subject to DXP Terms & Conditions of Sale. Net Thirty (30) Terms are subject to DXP Credit department approval. https://www.dxpe.com/terms-html/

Proposal Valid: (30) Days from Todays Date

F.O.B: Factory

Ships: Pre-pay and Add

Regards,

Tony Nunez

Pump Sales Engineer Cortech Engineering

	and the second s

Unit Price Extended Price Description Qty Part Number

Shop Labor Price \$ 1,400.00

> \$ 148,685.00 **Total Price**

Freight Charge \$ 6,512.00

Total Price \$ 155,197.00

> +tax \$10,579,42 \$165,776.42

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/termsconditions-of-sale aspx 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. 3 DAP - Delivered At Place 08 - Jobsite Freight Terms: (per IncoTerms 2020)

See Freight Payment (Delivery Terms) below.

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

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

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

of Seller.

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

incurred in shipment that are not reported within two weeks from delivery to the iobsite. 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.

PP/Add Order Position Terms of Delivery: Terms of Payment: 100% N30 after invoice date.

Xylem's payment shall not be dependent upon Purchaser being paid by any third

party unless Owner denies payment due to reasons solely attributable to items

related to the equipment being provided by FLYGT.

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

> Please note that this pricing is valid for 30 days and contingent upon final approval of submittals and release to fabrication by (within 90

days of bid date).

This quotation is subject to change if any changes to the specifications or plans are made that alter the scope of supply.

Schedule: Please consult your local Flygt Branch Office to get fabrication and

delivery lead times.

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

Sincerely.

a xylem brand

Page 2 of 4



September 3, 2024

Lake County Special Districts
230 N MAIN ST
LAKEPORT CA 95453-4816

Quote # 2024-FFB-0356 Project Name: Lake County Job Name: NorthWest 3231

Xylem Water Solutions USA, Inc. Flygt Products

790-A Chadbourne Rd Fairfield, CA 94534 Tel (707) 422-9894 Fax (707) 422-9808

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

Pump	os	Agreem strategy against the market of the		
Qty	Part Number	Description Flygt NP 3231, 63–480, 395 mm Intended for semi permanent wet installation, guiding claw included other installation components to be ordered individually Hard iron impeller and insert ring Drive Unit: 745 4 pole, 250 hp, 480 V, Std motor Approval: FM Ex Cooling jacket for direct media cooling Standard connection housing Insulated support bearing Cables(Customer has cables) Material Shaft: AISI 431 Stainless steel Supervision FLS, leakage detector, in junction box FLS, leakage detector, in stator housing PT-100 in one stator winding PT-100 in lower bearing Pump memory	Unit Price	Extended Price
1	003231ZZZZ0		\$ 145,923.00	\$ 145,923.00

, 1000	ssories	on the season as a second by the land	CONTRACTOR OF THE PARTY OF THE	
Qty	Part Number	Description	Unit Price	Extended Price
1	14-58 72 07	KIT,CHAIN FITTINGS FSWL 7150#	\$ 362.00	\$ 362.00
20	14-48 71 18	CHAIN 1/2" 316SS SWL7350#	\$ 50.00	\$ 1,000.00
		Accessories Price		\$ 1,362.00

Pumps Price

Shop	Labor	。 高音編編 編		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Qty 10	Part Number 14-69 00 02A	Description LABOR,SVC FLYGT,NO TAX Z3-TP MODELS: 3000,6000,7000,8000	Unit Price \$ 140.00	Extended Price \$ 1,400.00



\$ 145,923.00

Zack Cederlind Sales Representative

Cell: 916-279-1661 zackery.cederlind@xylem.com





Xylem Water Solutions USA, Inc. Flygt Products

Customer Acceptance

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-conditions-of-sale.aspx and incorporated herein by reference and made a part of the agreement between the parties.

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

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

Quote #: 2024-FFB-0356
Customer Name: Lake County Special Districts
Job Name: NorthWest 3231
Total Amount: \$ 148,685.00

Signature:	Name:(PLEASE PRINT)	
Company/Utility:	PO:	
Address:	Date:	
	Phone:	
	Email:	
	Fax:	



Quotation #DP5525

7 PAMARON WAY, SUITE A, NOVATO, CA 94949 P. 415-da884-4501, F. 415-883-3961

To:

David McGrath @ Lake County Special

Date:

September 16, 2024

Districts

230 North Main Street Lakeport, CA 95453

David.McGrath@lakecountyca.gov

Office 707-263-8279

Pages:

2

Subject:

HOMA submersible pump model AKX844-415/214H/C FM for the duty of 2,000 GPM @

250' TDH. Replaces existing Flygt pump

Qty.	Item / Description	Net Price	Ext. Net Price
1	HOMA submersible Pump Model AKX844-415/214H/C FM 8" submersible pump, 4" solids handling, 214 HP, 3/460VAC, 1750 RPM, Class H Insulated, Prem. Effic., Inverter Duty, Explosion Proof (FM approved) rated motor. Inc -#8734286; 316 SST. pump lifting handle -#GSPMR5; PMR-5 relay to fit in place of the existing Mini-CAS relay for motor thermal/seal failure protection - Certified pump performance test, duty of 2,000 GPM @ 250' TDH - 60' long motor and control cable - #7321891; 8" HOMA guide claw adapter for Flygt Guide Rail system for 3" dia. guide rails	\$84,175.00	\$84,175.00
	Shipping weight: 3,300 lbs. each.		\$7,365.31
Lot	Sales Tax @ 8.75% (Lake County)		
Lot	Approx. Freight Charges		\$3,960.00
Lot	One day of startup services and training		\$1,500.00
	Total Net Sale		\$97.003.31

595,737. W

Notes:

- 1) The existing Flygt lift-out rail system with 3" guide rails shall remain in place to accept the HOMA (Flygt) Guide Rail Adapter plate.
- 2) The existing pump lifting chain/cable assembly shall be used on the replacement HOMA pump.
- 3) If any additional startup is required, please add \$1,500.00 per day. Includes a field inspection and pump start-up report.

+ would require

FOB: Ansonia, CT

Freight charges shall be Prepaid and Add

Subject to our standard terms and conditions of sale

Terms: Net 30 days Pricing valid for 30 days **Lead time: Will Advise!**

Off-Loading of equipment shall be by others

Provided by,

Dennis Prahm



Qty

Part No

Flo-Line Technology, Inc. 11822 Kemper Rd, Auburn, CA 95603 Ph 530-887-2240, Fax 530-887-2243 www.flolinepumps.com

ATTENTION	DAVID MCGRATH
COMPANY	LAKE COUNTY SPECIAL DISTRICT
EMAIL	DAVID.MCGRATH@LAKECOUNTYCA.GOV
PHONE	707-263-8279
FAX	
CELL	
QUOTE NO	25419_R2
DATE	09.20.2024

Ohr	Part No.	Description		Unit Price	Ext'd
	REFERENCE	2,000GPM @ 250FT VALIDITY		30 D	AYS
	SUBJECT	SULZER ABS XFP PUMPS	TERMS	PP&ADD BEST WAY NET 30 O.A.C.	
	E-MAIL	TODD@FLOLINEPUMPS.COM	SHIP VIA		
	CELL	530-887-2240	FREIGHT		
	PREPARED BY	TODD CALLAWAY	LEAD TIME	8 - 10 V	VEEKS

Description

				ALCOHOL: NAME OF TAXABLE PARTY.
		SULZER ABS XFP PUMP OPTION		
		2,000GPM @ 250', 460V, 4 POLE MOTOR		
1	XFP200M-CH2 PE1850/4	8" XFP200M-CH2 PE1850/4 SUBMERSIBLE DRY PIT PUMP	\$100,438.00	\$100,438.00
		- 460V, 248HP, 3PH, 1780RPM, 2-VANE CHANNEL IMP.,		
		420MM(16.5") IMP. DIA., PE6A, 32' CABLE		
1	41426050	8" ADAPTER GUIDE BRACKET FOR 3" RAILS	\$3,738.00	\$3,738.00
1	62306244-316	HARDWARE KIT, 316SS	\$186.00	\$186.00
1	091224DC1	PC441 MONITORING BOX	\$8,028.00	\$8,028.00
		- NEMA 4X, FIBERGLASS ENCLOSURE		
		- 30x21x12		
		- INCLUDES: CA442 TEMP MONITORING MODULE, PC441		
		PUMP CONTROLLER, CA511 GRAPHIC DISPLAY, CA441		
		MOISTURE MONITORING MODULE.		
1	SHIPPING	ESTIMATED FREIGHT	\$8,300.00	\$8,300.0
_		FREIGHT NOT INCLUDED		
		ALL SALES ARE FINAL		
	THANK YOU VERY MUC	I H FOR THE OPPORTUNITY TO QUOTE THE ABOVE PRODUCTS	Total	\$120,690.0

+tax \$ 8148. 28=\$128,83823

a Section Williams



Submersible Sewage Pump Type ABS XFP

XFP 200M-CH2 | 8", 4 Pole, 3-Phase, 60 Hz, PE6

Cable Data,					Cable Nominal Outside	Diameter +/5mm (.02")
	Motor	Motor Voltage	Cable Qty	Cable Type	Power	Ground
		460 volt	4	3x3/0 AWG + 1x1/0 AWG (ground)	3/0: 20.0mm (0.79")	1/0: 16.9mm (0.66")
	PE 1500/4	600 volt	1	G-GC 3/0-3	48.0mm (1.89")	Integrated w/ Power
		460 volt	4	3x4/0 AWG + 1x1/0 AWG (ground)	4/0: 21.3mm (0.84")	1/0: 16.9mm (0.66*)
Power Cable	PE 1850/4	600 volt	1	G-GC 4/0-3	51.8mm (2.04")	Integrated w/ Power
	PE 2200/4	460 volt	4	3x262 MCM + 1x3/0 AWG (ground)	262: 23.8mm (0.97")	3/0: 20.0mm (0.79")
		600 volt	4	3x3/0 AWG + 1x1/0 AWG (ground)	3/0: 20,0mm (0,79")	1/0: 16.9mm (0.66")
		460 volt	4	3x373 MCM + 1x4/0 AWG (ground)	373: 27.8mm (1.09")	4/0: 21.3mm (0.84")
	PE 2800/4	600 volt	4	3x262 MCM + 1x3/0 AWG (ground)	262: 23.8mm (0.97")	3/0: 20.0mm (0.79")
	Mon	Motor itoring Type ³	Cable Qty	Cable Type	Cable Nominal Outside Diameter +/5mm (.0	
		ing w/ 3 RTDs	1	SOOW 16/12		n (0.70*)
Control Cable		ring w/ 5 RTDs	2	SOOW 16/10	17.2mr	n (0.68")
	Opt full monitoring w/ 3 RTDs & VS 4		2	SOOW 16/8	14.2mm (0.56")	
	Opt full monitoring w/ 5 RTDs & VS 4		2	SOOW 16/10		n (0.68")
Cable Length	Standard: 10m		Optional: 5m	(16 feet) increments up to 30m (98 fee	t), Consult Factory for longe	r lengths

*See motor protection on page 1. Optional full monitoring systems with RTD options do not include bearing bi-metallic switches. *VS = Vibration Sensor

Pump D	ata		120					The Burney	ATTACA BY	00
Discharge Size		8" flanged, compatible with 8" class 125 ANSI flanges								
Suction Size (Wet-Pit / Dry-Pit) 5		8" undrilled / 8" flanged, compatible with 8" class 125 ANSI flanges, threaded for 8x3/4-10 UNC screws, 40mm (1.6") deep								
Volute Pressure Rating		10 bar (145 psi)								
Impeller Type		Closed Channel, 2-vane, w/ Seal Protection System								
Impeller	Code	-								_
	Diameter, mm (in.)	335 (13.2)	360 (14.2)	395 (15.6)	420 (16.5)					_
Solids Passage Size, mm (in.)		100x90 (4.0x3.5)	100x90 (4.0x3.5)	100x90 (4.0x3.5)	100x90 (4.0x3.5)			0	-	_
Min. Recommended Flow, GPM 6		1150	1175	1350	1400					_

Wet-pit version can be drilled to dry-pit specifications upon request. Consult factory for details. Recommend minimum continuous flow. Consult factory for applications below this flow rate.

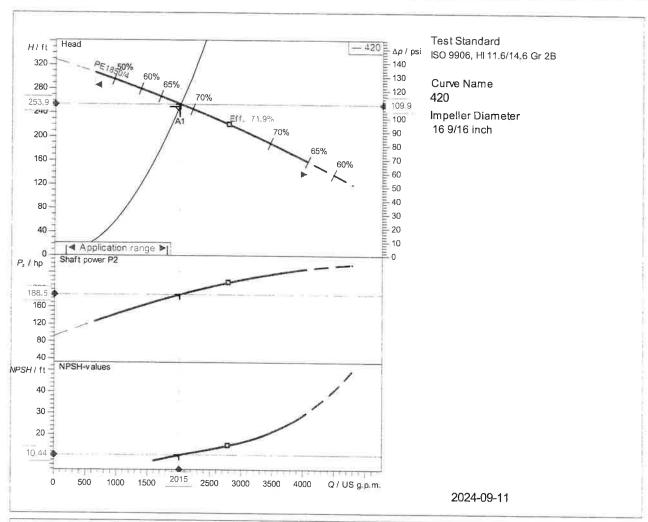
Materialo	of Constructio	Standard	Optional
D/Ct	ol Cable Jacket	Chlorinated Polyethylene (CPE)	Chlorinated Polyethylene (CPE) w/ Viton® Sleeve
	or Cable Jacket	Steel 1.0060 (ASTM A-572, Grade 65)	Duplex Stainless Steel 1.4462 (UNS S31803)
Lifting Hoop	ction Chamber	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Motor Housin	Contract to the second	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Cooling Jack		Steel 1,0036 (ASTM A-570, Grade D)	Stainless Steel 1.4571 (AISI 316Ti)
Intermediate		Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
	oling Chamber	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Pump and Me		Stainless Steel 1.4021 (AISI 420)	Duplex Stainless Steel 1.4462 (UNS S31803)
	otor Shart	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
Impeller	Impeller Wear Ring	N/A	Stainless Steel 1.4571 (AISI 316Ti)
	Volute Wear Ring	Cast Iron EN-GJL-300 (ASTM A-48, Class 40B)	Stainless Steel 1.4581 (AISI 318)
Wear Parts	Bottom/Wear Plate	N/A	The state of the s
	Shroud	N/A	
Malista	Silloud	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A
Volute External Hard	durara	Stainless Steel 1.4401 (AISI 316)	
	Cable Glands	Nitrile (Buna-N)	Viton [®]
	Lower	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	Silicon Carbide / Silicon Carbide, Viton®, 316 SS
Mechanical Seals	Upper	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS	
		Nitrile (Buna-N)	
Lower Bearing Lip Seal Coating/Protection		Two-part epoxy, blue, 100µm (3.9 mil) DFT	Two-part epoxy, blue, 200 μm (7.9 mil) or 360 μm (14.2 mil); Coal tar epoxy, blue, 200 μm (7.9 mil); Non-toxic epoxy, blue, 200 μm (7.9 mil); Zinc Anodes

General Data (Star	ndard Materials of Co	nstruction & C	able Length)		The second section of the second
Ocheron Date (other	PF 1500/4	PE 1850/4	PE 2200/4	PE 2800/4	rote in the
Overall Height	2198mm (86.5")	2198mm (86.5")	2358mm (92.8")	2358mm (92.8")	
≈ Pump Weight	1840 kg (4057 lb)	1945 kg (4289 lb)	2285 kg (5038 lb)	2390 kg (5270 lb)	



SULZER

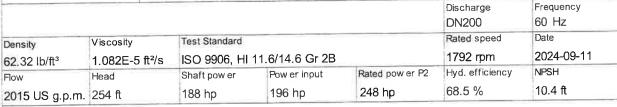
XFP200M-CH2 60 HZ

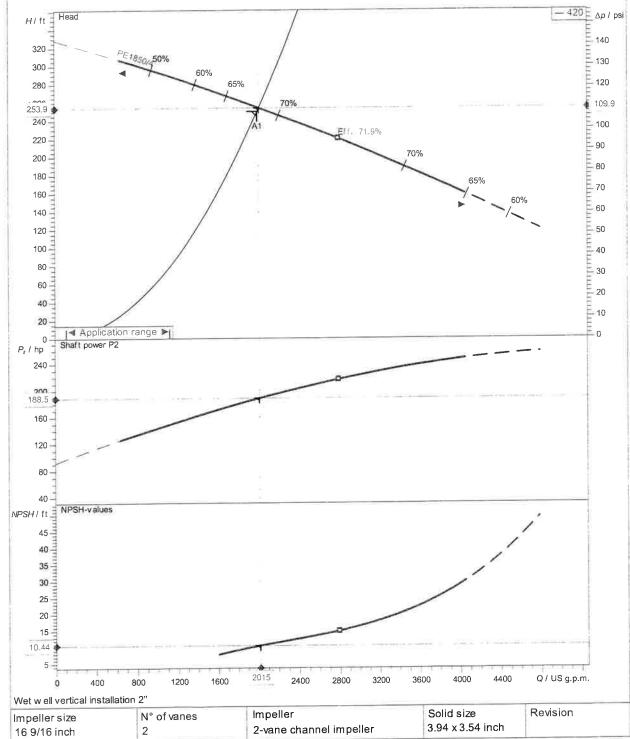


Operating data specification Flow Efficiency NPSH Temperature No. of pumps	2015 US g.p.m. 68.5 % 10.4 ft 68 °F 1	Power input Head Shaft power Fluid Nature of system	196 hp 254 ft 188 hp Water Single head pump
Pump data Type Series N° of vanes Free passage Discharge flange Moment of inertia	XFP200M-CH2 60 HZ XFP PE4-PE7 2 3.94 x 3.54 inch DN200 22.5 lb ft²	Make Impeller Impeller size Suction flange Type of installation	SULZER 2-vane channel impeller 16 9/16 inch DN200 Wet well vertical installation 2"
Motor data Rated voltage Rated power P2 Number of poles Power factor Starting current Starting torque Insulation class	460 V 248 hp 4 0.873 2220 A 1970 lbfft H(140)	Frequency Nominal Speed Efficiency Rated current Rated torque Degree of protection No. starts per hour	60 Hz 1790 rpm 95.9 % 277 A 728 lbf ft IP 68 15

Curve number Pump performance curves Reference curve XFP200M-CH2 60 HZ Test Standard



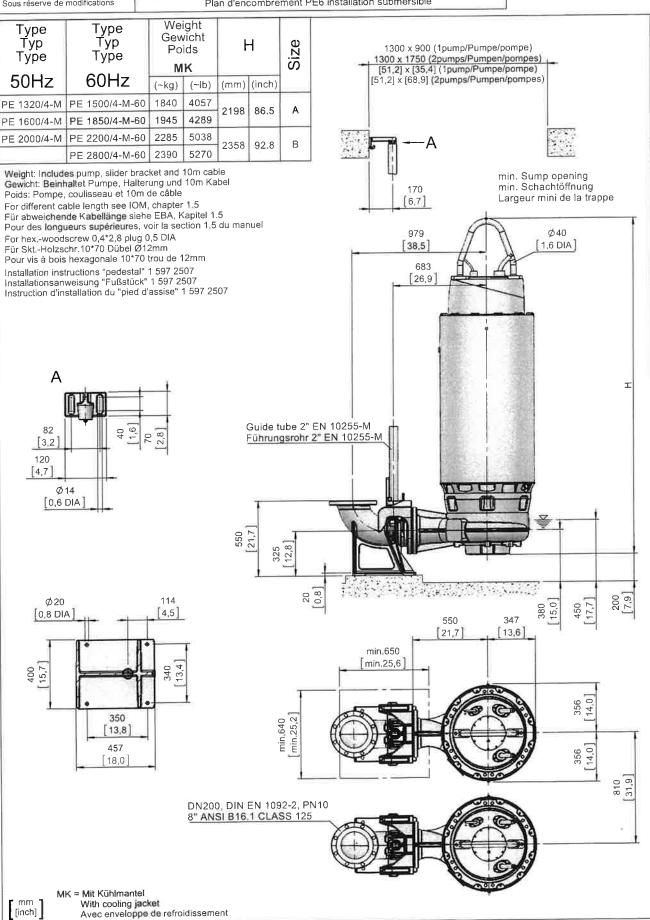




Frequency PE6A Motor performance curve 60 Hz SULZER PE1850/4 Rated power Service factor Nominal Speed Number of poles Rated voltage Date 248 hp 1.15 1782 rpm 4 460 V 2024-09-11 20 30 10 40 50 60 70 P2/P2n / % 80 100 110 120 130 75.98 % P, / hp = n./ % cos φ – cos φ Ε l/ln 96.08 - n 2300 -320 1,25 1.25 -0.92 1.25 310 92 2200 1.2 300 1.2 1.2 0.88 88 2100 290 1.15 1.15 - M/Mn 1.15 0.84 84 280 2000 1.1 = 1.1 1.1 270 0.8 1.05 1900 = 1.05 1.05 260 0.76 76 250 1792 0.72 240 72 0.95 -0.95 1700 0.95 0.68 230 68 0.9 0.9 0.9 1600 220 0.85 0.64 64 0.842 0,85 1500 210 0.6 0.8-0.8 60 196.2 1400 0.787 0,755 0.56 0.75 0.75 56 1300-180 0.52 0.7 0,7 52 170 1200 -0,65 0.65 0.48 0.65 160 48 1100 0.6 0.6 0.44 150 0.6 1000 140 0.55 0.55 0.55 0.4 40 130 900 0.5 0.5 0.5 0.36 120 36 0.45 0.45 800 -0.45 0.32 110 32 0.4 0.4 100 700 -0,4 0.28 28 90 0.35 0.35 0.35 600 0.24 80 24 0.3 0.3 0.3 500 -70 0.2 20 0.25 0.25 -0.25 60 400 0.16 16 0.2 02 50 0.2 300 = 0.12 0.15 -40 12 0.15 0.15 200 -30 0.08 0.1 0.1 - 8 0,1 20 100 = 0.05 n n4 0.05 0.05 - 4 10 0,004 0 = 0 = = 0 0 - 0 188.5) 80 120 280 320 P2 / hp Symbol No load 25 % 50 % 75 % 100 % 125 % P2/hp 0 62.02 124 186.1 248.1 310.1 P₁/hp 4.047 66.47 129.6 193.7 258.5 324.3 I/A 90.04 113.2 159.1 215.7 277.1 343 cos φ 0.04207 0.5496 0.7627 0.8403 0.8734 0.8849 n / rpm 1800 1798 1795 1792 1790 1788 s / % 0 0.1389 0.2778 0.4167 0.5556 0.6944 M / lbf ft 0 181.2 363 545.2 728 911.2 η/% 0 93.31 95.68 96.07 95.95 95.62 Tolerance according to VDE 0530 T1 12.84 for rated power Starting current Starting torque Moment of inertia No. starts per hour 2220 A 1970 lbf ft 90.4 lb ft2

No: M-02.3079 - 02 2	XFP 200M-CH2 Dimension sheet PE6 WET WELL Installation		
Dat/Nam.: 30.05.2016 / K, Srb Cad Code: M_023079			
Technical changes reserved	Maßblatt PE6 Nassinstallation		
Änderungen vorbehalten Sous réserve de modifications	Plan d'encombrement PE6 installation submersible		





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