Agenda Item No. F-1

CITY CLERK'S INITIALS

DATE SUBMITTED 11/29/2022 COUNCIL ACTION PUBLIC HEARING REQUIRED SUBMITTED BY Public Services RESOLUTION ORDINANCE 1ST READING ORDINANCE 2ND READING DATE ACTION REQUIRED 12/07/2022

IMPERIAL CITY COUNCIL AGENDA ITEM

SUBJECT:	DISCUS	SION/ACTION:				
Purchase of Submersible WW Pump	1. D	riscuss, Approve/Disapprov	e purchase of Submersible	e Pump for WWTP		
Татр				4.5		
DEPARTMENT INV	OLVED:	Waste Water – Public Se	i			
		waste water – Public S	ervices			
BACKGROUND/SU	WIMARY:					
warranty. Public S	Services w	iled at the Waste Wate Yould like to purchase of the running on 2 pump	a replacement/back-u	nt is currently co	vered under plant running	at
			14			
				=		
FISCAL IMPACT	Γ: To not ε	exceed \$60,000	7 ka	FINANCE INITIALS	OP	
STAFF RECOMMEN	ID ATTION.					
STAIT RECOMMEN	NDATION:	e ¹		DEPT. INITIALS		
MANAGER'S RECO	MMENDAT	TION;		CITY		
		approve		MANAGER's INITIALS	OHEN	
			900			
MOTION:						
SECONDED: AYES: NAYES: ABSENT:			APPROVED DISAPPROV REFERRED	.,	REJECTED DEFERRED	0
	*					



KSB KRT K 300-400 PUMP REPLACEMENT

Company City of Imperial

Attention Chris Kemp

From Jorge Contreras / 760 415.5523 / jorge.contreras@dxpe.com

Quote Number 12912104

Date 10/25/2022



RICHMOND SAN DIEGO

2525 Southport Way Ste A National City, CA 91959 (714) 779-0911

QUOTATION



1340 N. Jefferson St. Anaheim, CA 92807

Phone 714-779-0911 Fax 714-912-7330

Order Ni	umber
12912	104
Order Date	Page
10/25/2022	1 of 1

Quote Expires On 11/4/2022

Bill To:

Imperial, CA 92251-1637 US

760-355-0350

Ship To:

CITY OF IMPERIAL 420 S Imperial Ave Imperial, CA 92251-1637 US

Customer ID:

512786

Requested By: Chris Kemp

Order Required Date

10/25/2022

PO Number	Ship Route	Taker	SalesRep
		HECTOR.HUERTA	Jorge A Contreras
Quantities Item	ID	Pricing UOM	Unit Extended
Ordered Allocated Remaining UOM State	Description	Luit Sina	Price Price

Order Note: FOB: Shipping point - VA Estimated Lead time

12-14 weeks to ship / ARO + Transit time to Imperial, CA & Subject to material availability at time of order. Prices quoted are valid until 11/04/2022 and subject to change without notice. Freight charges & Sales Tax are Not included in prices quoted. Please Note that due to the Global COVID-19 Pandemic there are significant logistic delays and therefore the leadtimes provided cannot be guaranteed. We will do our best to meet the delivery dates specified and will notify you as soon as possible with any delays. Order Cancellation fees will apply. Thank you

for your patience and understanding.

EA

48,924.00

Item Required Date:

1,000

0,000 10/25/2022 1.000 EA

1.0

(002) KSB K300-400/308XEG-S

SUBMERSIBLE PUMP ONLY

GRAY IRON CONST., SS IMPELLER WEAR RING, STD MECH-SEAL, NBR O-RINGS, MOD "A" MOIST RELAY, 40HP, 3/60/460V X-PROOF MOTOR WITH 50' POWER

CABLE, COS: 5200 GPM @ 16' TDH

Total Lines: 1

SUB-TOTAL:

48,924.0000

48,924.00

TAX:

3,791.61

AMOUNT DUE:

1.0

52,715.61

USD



Created 2022-10-25 Update 2022-10-25

Data sheet

Pump type KRT K 300-400/308XEG-S

Operating data

Flow	5,200	US g.p.m.	Fluid	
Head	16	ft	Density of fluid	62.3 lb/ft ³
Operating speed	890.8	rpm	Viscosity	1.08E-5 ft ² /s
Shaft power	27.9	hp	Temperature	68 °F
Efficiency	75.3	%	Hydraulic acceptance acc.	ANSI HI 2B
Required pump NPSH	17.6	ft	,	
Head H(Q=0)	41	ft		
Application range	Head		Flow	
From	33.6	ft	1,760 US g.p.m.	
То	9.56	ft	6,050 US g.p.m.	

Design

Make	KSB	Impeller type	Multi channel impeller			
Design	Submersible pump		Closed			
Series	KRT K	Impeller size	(363)	14 1/4	inch
Frame size	300-400		Max. (408)	16 1/16	inch
Stages	1		Min. (332)	13 1/16	inch
Curve number	K41683s/5	Free passage			3 15/16 i	nithch
		Weight			2.030.4	lb

Type of bearings

Nos. of bearings

1/1 Lubrication

Grease lubrication. lubricated for lifetime Suction port Pressure rating

Antifriction

Flange size DN0 DN1 Flange size 12"

Norm

Discharge port Pressure rating **CLASS 125** Flange size DN2 12 inch

DN3 Flange size 12 inch

Norm ASME/ANSI B16.1

Discharge port: discharge elbow (DN3)

Suction port: pump (DN1)

Materials

Pump casing Grey cast iron EN-GJL-250 (A 48 Class 35B) Discharge cover Grey cast iron EN-GJL-250 (A 48 Class 35B) Impeller Grey cast iron EN-GJL-250 (A 48 Class 35B) Shaft Stainless steel EN-1.4021+QT800 (A 276 Type 420) Bearing bracket Grey cast iron EN-GJL-250 (A 48 Class 35B) Motor casing Grey cast iron EN-GJL-250 (A 48 Class 35B) Bolts. nuts Stainless steel A4 (EN-1.4571) (A 276 Type 316)

Cooling jacket

Shaft protection sleeve

Grey cast iron EN-GJL-250 (A 48 Class 35B) Casing wear ring

Impeller wear ring

O-Rings Nitrile rubber (NBR)



Page 2022-10-25

Data sheet

Pump type

KRT K 300-400/308XEG-S

Shaft seal

Type of seal

Arrangement:

Seal on medium side

Mechanical seal, pump-side

Mechanical seal, bearing-side

Tandem

with elastomer bellows

Double mechanical seal

Silicon carbide / Silicon carbide

Carbon / Silicon carbide

Monitoring

Thermal winding protection Explosion proof protection Motor housing monitoring

Mechanical seal leakage detection Bearing temperature monitoring

By temperature sensitive switches By PTC (Explosion proof models only) By conductive moisture sensor electrode

Coating

Preparatory treatment Blasting method

Primer

Dry film thickness primer

Top coat Solids content

Dry film thickness top coat

Color

SSPC near white SP 10

Steel grit blasting

Zinc phosphate or Zinc dust > 1 1/2 mils (35 microns) 2-component epoxy resin

> 82 %

> 6 mils (150 microns)

Ultramarine Blue (RAL 5002 to DIN 6174)

Installation

INSTALLATION: These parts are Not included

Type of installation: Wet well installation designed for

automatic connection to a

permanently installed discharge elbow

Discharge elbow size (DN2/DN3):

Flange to suit

12 inch / 12 inch : ASME/ANSI B16.1, CLASS 125

Claw

: Bolted to the pump

Guide system

Guide bar

: Double guide bars, by contractor

: 3" diameter pipes

dimension

Installation depth

: 15 ft (4.5 m)

Lifting device

: stainless steel lifting chain

Length of

: 33 ft (10 m)

lifting device

Lifting loops

: Every 8 ft (2.5 m)

Installation

: Discharge elbow, 12 inch / {P.PartNo[Co,

accessories

GuideRail].Bend DN DS[Co];;;0}

fasteners,

claw, bracket, lifting chain, but without guide bars

Materials:

Discharge elbow

: Grey castiron EN-GJL-250 (A 48 Class 35B)

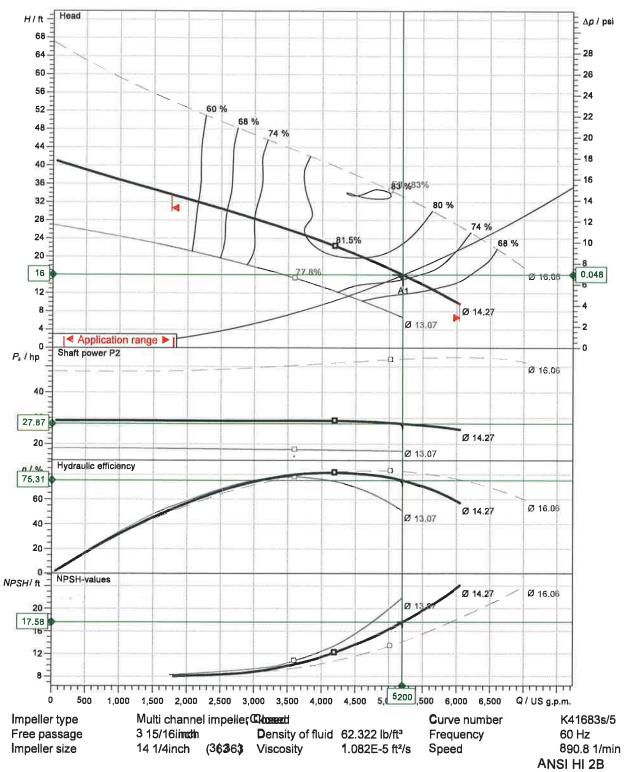


Created Update

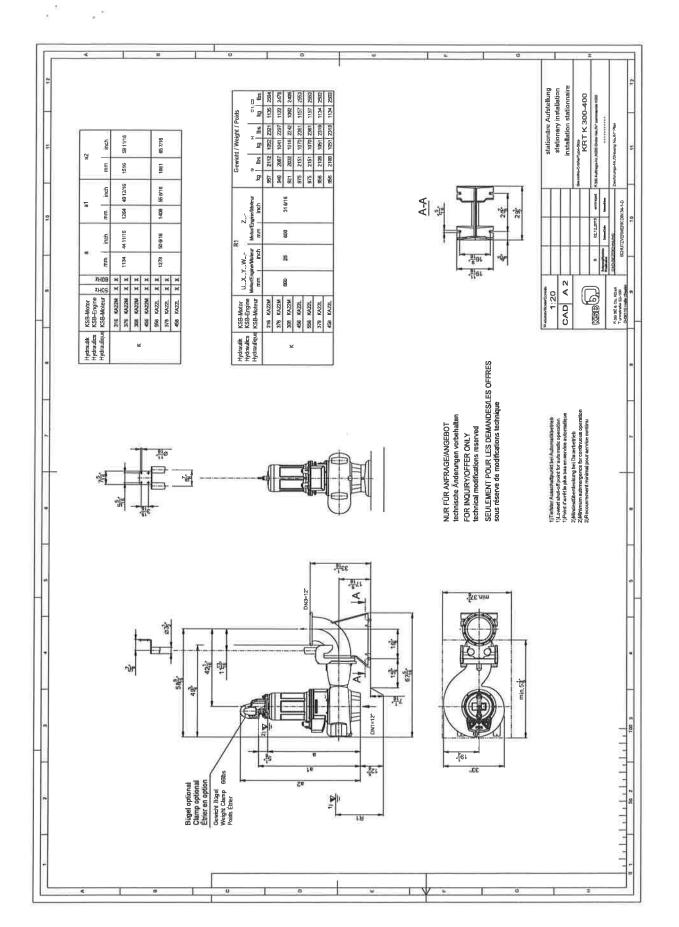
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Performance curve

Pump type KRT K 300-400/308XEG-S H/ft Head







Project ID

Pos.no

KRT K 300-400/308XEG-S

Project

Project Customer pos.no Project ID Created by Pos.no



Created

Update

Data sheet: Motor data

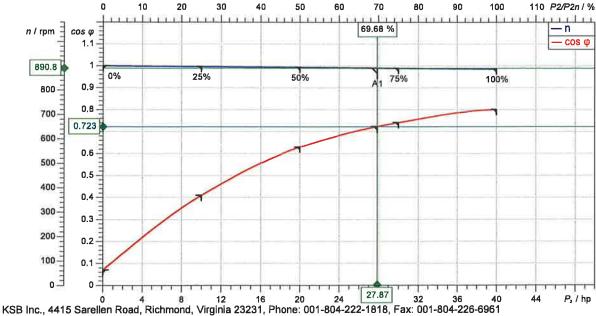
Motor type

308XEG

Motor manufacturer Design acc. standard Service factor Degree of protection Insulation class	KSB SE & Co. KGaA - 1.14 IP68	Rated voltage Rated frequency Rated HP (D.O.L) or VFD Rated current Nominal speed	460 60 40 52.2 887	V Hz hp A rpm
Starting mode	Direct starting	NEMA code letter	G	
No. starts / h	10	Starting to rated current	5.7	
Coolant temperature	= 104 °F (40 °C)</td <td>Starting current</td> <td>297.5</td> <td>Α</td>	Starting current	297.5	Α
Motor casing	Grey cast iron EN-GJL-2	50 (A 48 Class 35B)		
Explosion protection Pump type	Class I, Div. 1, Groups KRT K 300-400/308XEG	C&D T3		

Load	P1	P2	eta	cos phi	ı
	kW	hp	%	·	Α
4/4	33.29	40.0	89.6	0.8	52.2
3/4	25.02	30.0	89.4	0.74	42.4
2/4	16.90	20.0	88.2	0.63	33.7
1/4	9.11	10.0	81.9	0.41	27.9

Main cable 2 x AWG 9-4 Diameter 0.56 inch...0.60 inch Control cable 1 x AWG 15-8 0.56 inch...0.60 inch Diameter Cable. outer sheath Waterproof synthetic rubber compound Cable length 50 ft (15 m)



KSB Pumps Inc, 5885 Kennedy Road, Mississauga, Ontario L4Z 2G3 (Canada), Phone: (0905) 568-9200, Fax: (0905) 568-9120

KSB 5.1/5
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Created Update 2022-10-25 2022-10-25

BERLCC_

Pump type

KRT K 300-400/308XEG-S

Calculation of energy costs

BERCO2

BERLCC

Calculation specifications		JAECO2	218.27	t/a
Evaluation period Operating hours	10 6,840.00	Year(s) Co2 emission for 10 years h/a	2,182.71	t
Lastprofil Electricity tariff	ıll-load operation 0.20	EUR/kWh		
JaeStromSt JaeKostSt	6 3	% %		
ZinsS CO2-factor	7 0.62	% kg/kWh		

Qp	Qué	Q	Н	P1	E	K
%		US g.p.ı	ft	hp	kWh/a	EUR/a
100	1	5,200	16	31.2	159,000	31,835.33
Energy	requ	irements			159,200	kWh/a
Annua	ener	gy costs			31,835.33	EUR/a
		1000				
. 1				N A		
					l i	
					1	

Energy costs for 10 years

301,522.08 EUR

Pump and accessories De-installation / installation Disposal Sum of investment	On req. 0.00 0.00	EUR EUR EUR EUR
Energy requirements	159,176.64	kWh/a
Energy costs	31,835.33	EUR
Routine maintenance	0.00	EUR
Servicing	0.00	EUR
Environ. contamin.	0.00	EUR
Costs for loss of production	0.00	EUR
Other costs	0.00	EUR

Life cycle cost (LCC) for 10 years

Sum of annual costs

EUR

31,835.33 EUR





THE INDUSTRIAL DISTRIBUTION EXPERTS DXP Terms & Conditions

PLEASE READ THESE TERMS AND CONDITIONS VERY CAREFULLY.

THE TERMS AND CONDITIONS ARE LIMITED TO THOSE CONTAINED HEREIN. ANY ADDITIONAL OR

DIFFERENT TERMS IN ANY FORMS DELIVERED BY YOU ("CUSTOMER") ARE HEREBY DEEMED TO BE

MATERIAL ALTERATIONS AND NOTICE OF OBJECTION TO THEM AND REJECTION OF THEM IS HEREBY GIVEN.

BY ACCEPTING DELIVERY OF THE PRODUCTS DESCRIBED IN DXP'S INVOICE OR OTHER DXP

DOCUMENTATION, CUSTOMER AGREES TO BE BOUND BY AND ACCEPTS THESE TERMS AND CONDITIONS.

Important Information About DXP Terms and Conditions:

These Terms and Conditions constitute a binding contract between Customer and the DXP Entity identified on Customer's invoice

("DXP") and are referred to herein as the "Agreement". Customer accepts

I. CONDITIONS

- (a) No terms and conditions contained in any order placed with DXP Enterprises, Inc. other than those stated herein shall be binding on DXP Enterprises, Inc. unless hereafter agreed in writing.
- (b) All orders are subject to acceptance by an officer of DXP Enterprises, Inc.

II. PRICES

All prices quoted herein will be subject to the prices in effect at time of shipment. All prices are subject to change without notice. DXP is not responsible for typographical errors.

III. TERMS OF PAYMENT

- (a) Net 30 days unless otherwise stated in writing.
- (b) All orders subject to approval of credit. All orders paid in cash should be payable in U.S Dollars.
 - (c) The finance charge on Past Due Balances is computed by a periodic rate of 1 ½% per month (Annual percentage rate of 18%).
- (d) All quotes are for immediate acceptance and expire after 30 days unless otherwise stated in writing.

IV. ST AND ARD WARRANTY

(a) DXP will convey to the Purchaser the manufacturer's warranty that applies to the purchased goods.

INNOVATIVE PUMPING SOLUTIONS • SUPPLY CHAIN SERVICES • SERVICE CENTERS

1340 N. Jefferson Street Anaheim, CA 92807 Phone 714-779-0911



DXP Enterprises, Inc.

THE INDUSTRIAL DISTRIBUTION EXPERTS

- (b) This warranty does not obligate DXP to bear the cost of labor or transportation charges in connection with the replacement or repair of defective parts without approval by an officer of DXP prior to the time repairs are made. The obligation under this warranty may be limited to the repair or replacement of parts F.O.B. its factory provided that upon inspection at such point they shall be determined by DXP to have been defective in material or workmanship.
- (c) If DXP agrees that circumstances require the replacement or repair of defective parts on the jobsite, after a DXP representative has determined that a warranty situation does exist, and that no revisions or alterations have been made to the equipment by others, a DXP representative will implement the required repairs on an eight-hour straight time basis only.
- (d) Statistical information contained in this catalog is derived from tables compiled by the manufacturers and is reprinted by us for your convenience. We do not assume responsibility for the precise accuracy of such information.
- (e) Acceptance of the material from a common carrier constitutes a waiver of any claim against DXP for delay or damages in transit.
- (t) Seller makes no warranty of any kind whatsoever, expressed or implied, unless expressly set forth in writing. No agent, employee or representative of the Seller has any authority to bind the Seller to any affirmation, representation, or warranty concerning the goods that we sell beyond that specifically included in writing.
- (g) DXP shall not be responsible for exemplary or consequential damages.

V. SHIPMENT

- (a) Shipment quoted is effective as of proposal date and will be confirmed upon receipt of order, subject to availability of materials and production space. DXP shall not be held responsible for delays due to causes beyond DXP's control such as strikes, riots, carrier delays, etc.
- (b) All freight charges are billed to purchaser. All merchandise becomes the property of the Purchaser upon delivery to the carrier.
- (c) Delivery terms are F.O.B. shipping point, unless otherwise noted. Unless specific shipping instructions are given, we will use our judgment to determine the most satisfactory routing.
- (d) In the event a package becomes lost or damaged in shipment, please make appropriate notations on your delivery receipt before signing. If the carrier is a truckline, obtain an inspection report immediately. Contact DXP for additional information.

VI. TAXES

The Purchaser shall pay to DXP, in addition to the purchase price, the amount of all Sales, Use, Privilege, Occupation, Excise, or other taxes, Federal, State, local or foreign which DXP is required to pay in connection with furnishing goods or services to the Purchaser.

VII. INSTALLATION

Equipment shall be transported, installed and connected at Purchaser's risk and expense. DXP will furnish a service representative to assist in initial installation and start-up. This service will be invoiced separately at our current published rates plus living and traveling expenses.

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