



C H SPENCER LLC

Don Canepa
C.H Spencer & Co
95 Isidor Court
Sparks Nv. 89441

C H SPENCER LLC

May 30, 2023

Proposal No: RNDC23-03-30 01
Item No: SEAF 32x12-12 (Base Offer)
Inquiry No: Minden Sanitation

MODEL: AF SIZE: 12x12-12/4V SETTING: 0° QTY: 1

Operating Conditions

SERVICE
LIQUID Slurry , Rated Temp. 75.0 deg F, SP.GR 1.000, Viscosity 1.000 cp, Rated/Max. suction pressure 0.0 / 0.0 psi g
CAPACITY Rated 4,000.0 gpm
HEAD 7.1 (ft)

PRICES in USD	
Pump Unit	145,483.60
Driver	1,461.60
Boxing	
Testing	958.80
Freight	
Total 1 Unit	147,904.00

Performance at 989 RPM per HI 14.6 2B basis power

PUBLISHED EFFY 55.5% (CDS)
RATED EFFY 55.0% corrected with contract seal
RATED POWER 13.0 hp (incl. Mech. seal drag 0.17). (Run out 13.0 hp NOL 15.2 hp) **
NPSHR 10.4 ft
DISCH PRESSURE (R) 3.1 psi g (8.5 psi g @ Shut off) based on 0.0 psi g rated suction pressure
PERF. CURVE E-10560-5 (Rotation CW viewed from coupling end)
SHUT OFF HEAD 19.7 ft
MIN. FLOW Continuous Stable: 2,402.7 gpm Hydraulic: 2,402.7 gpm Thermal: N/A
SUCTION LOCATION End Suction

** Power shown is at the pump shaft, add additional power of 0.61 hp to account for drive belt losses

Materials

PUMP CONFIGURATION Backpullout Design
CONSTRUCTION Cast CD4MCuN
ELBOW CD4MCuN
CASING CD4MCuN (max.casing pressure @ rated temp. 100.0 psi g)
IMPELLER CD4MCuN - Axial flow (12.0000 in rated))
SHAFT MATERIAL Duplex SS
LUBRICATION Flood Oil
SEAL CHAMBER TaperBore for Mechanical Seal
O-RING MATERIAL EPDM
V-BELT DRV. GUARD Steel
V-BELT DRIVE Wood's single speed
BASEPLATE Under slung Motor under pump

Sealing Method

MECHANICAL SEAL EagleBurgmann Single Cartridge Adder (Silicon Carbide vs. Silicon Carbide Faces) - (Cartridge - Single)





C H SPENCER LLC

REPLACEMENT PARTS DATA SHEET

Printed by: Don Canepa, C H SPENCER LLC

Quantity of Pumps : 1

May 30, 2023

Quote is Valid for 15 Days

Customer: C H SPENCER LLC

Proposal No # : RNDC23-03-30 01

Item Number : SEAF 32x12-12

Ship to : CH SPENCER

Model/Size : AF/12x12-12

95 ISIDOR CT

Construction : CD4MCuN

SPARKS

S.B.Arrangement : TaperBore for Mechanical Seal

Imp.Diameter : 12.0000 in

Lubrication : Flood Oil

Service :

Salesman Rep : C H SPENCER (157110)

Currency : USD

Item #	Qty	Part No	Part Description	Material Description	List Price
# 003B	1.0000	AF12MO2435	POWER END 12"AF OIL MS DESIGN		92,131.00
# 101	1.0000	056155G1801216	IMPELLER 4V,O DEG,CW 011.946	DUPLEX STAINLESS STEEL	27,709.00
# 112C	2.0000	8057-31321	BEARING,BALL 7313 BECBY, SKF		829.00
113A	1.0000	A00138G0031000	BREATHER 3/4-14 NPT(PL-822)	Gray Iron	158.00
119C	1.0000	C03336E0001000	COVER,END(THRUST) 12" & 14" AF	Gray Iron	4,188.00
# 122	1.0000	C03325E0012435	SHAFT,12" AF, MECH SEAL	DUPLEX STAINLESS STEEL	17,161.00
134C	1.0000	D01884E0011000	HOUSING,BRG 12" AFR	Gray Iron	12,031.00
# 136	1.0000	8601-0013	LOCKNUT,BRG SKF N-13	STEEL	65.00
# 168C	1.0000	8050-21360	BEARING,BALL 6213, SKF		117.00
# 178	1.0000	49568 325 2248	KEY,IMPELLER	Hastelloy C276	1,264.00
183			SUBBASE & HARDWARE (STANDARD)		
# 184	1.0000	D02494E0011216	COVER,STUFFING BOX	DUPLEX STAINLESS STEEL	31,914.00
# 198	1.0000	49511 302 2435	SCREW,HHC 3/4"-10 X 1-1/2"LG	DUPLEX STAINLESS STEEL	716.00
# 199	1.0000	050533G1002435	WASHER,SHAFT	DUPLEX STAINLESS STEEL	1,199.00
232C	1.0000		V-BELT DRIVE		
239C	2.0000		FOOT,INBD/ELBOW FLANGE		
251C	1.0000	63122 2 2138	PLUG,PIPE 1/4-18 NPT	BRASS - ROD,BAR,SHAPES Hard (H01,H02, H04) Condition	21.75
315A	1.0000		ELBOW,AF		
319	1.0000	A01154A03	WINDOW,SIGHT		320.00

Note: * = Startup Spare # = Recommended Spare - Part NOs subject to change based on customer modifications



Item #	Qty	Part No	Part Description	Material Description	List Price
# 331	1.0000	046957G5506310	SHIM SET	Polyester	184.00
# 332	1.0000	C03711E006	SEAL,INPRO 12",14" AF, OIL,OB		1,745.00
# 333	1.0000	C03711E005	SEAL,INPRO 12",14" AF, OIL,IB		2,439.00
* 351	1.0000	C02495A2795303	O-RG AS568-279	Ethylene Propylene	120.00
353	4.0000		STUD,GLAND		
355	4.0000		NUT,GLAND		
356A	8.0000	49521 209 2228	BOLT,HEX TAP 1/2-13 X 2.75"LG	304 Stainless Steel	23.00
370C	2.0000	49511 102 2210	SCREW,HHC 3/8"-16 X 1" LG	Carbon Steel	12.75
370Y	2.0000	49511 203 2210	SCREW,HHC 1/2"-13 UNCx1-1/4"LG	Carbon Steel	12.50
# 382	1.0000	8910-0013	LOCKSWHR,BRG SKF W13	STEEL	23.50
* 383	1.0000		MECHANICAL SEAL		
# 400	1.0000	49568 305 2213	KEY	CARBON STEEL	236.00
408	1.0000	K15562A05 2138	PLUG, PIPE SQHD 3/4-14 NPT	BRASS - ROD,BAR,SHAPES Hard (H01,H02, H04) Condition	51.25
408A	2.0000	63122 1 2138	PLUG,PIPE	BRASS - ROD,BAR,SHAPES Hard (H01,H02, H04) Condition	14.50
408D	1.0000	K15562A05 2138	PLUG, PIPE SQHD 3/4-14 NPT	BRASS - ROD,BAR,SHAPES Hard (H01,H02, H04) Condition	51.25
415	4.0000	B01883E0022226	LUG,ADJUSTING AF 14"	303 Stainless Steel	947.00
500	1.0000		GUARD,BELT & HARWARE		
528J	4.0000	49519 59 2229	WASHER 5/8" SAE PLAIN	STAINLESS STEEL	12.50
788Z	4.0000	49511 102 2210	SCREW,HHC 3/8"-16 X 1" LG	Carbon Steel	12.75
789L	10.0000	49511 205 2210	SCREW,HHC 1/2"-13 UNC 1-3/4"LG	Carbon Steel	12.50
799F	3.0000	49511 208 2210	SCREW,HHC 1/2"-13 UNC 7/8"LG	Carbon Steel	12.50
799M	2.0000	49514 257 2435	SCREW,SCKT SET 3/8"-16 X 3/4"L	DUPLEX STAINLESS STEEL	RTF
799N	4.0000		WASHER (SIDE/ELBOW FLANGE FOOT)		
799O	2.0000	49511 206 2210	SCREW,HHC 1/2"-13 UNC 2.00"LG	Carbon Steel	31.00
799P	4.0000		SCREW,HHC (INBD/ELBOW FLANGE FOOT)		
813R	1.0000	49514 255 2248	SCREW,SCKT SET 3/8"-16 X 1/2"L	Hastelloy C276	1,001.00
# 903A	1.0000		BACK PULLOUT		

Note: * =Startup Spare # =Recommended Spare - Part NOs subject to change based on customer modifications



C H SPENCER LLC

Holly Potts
 CH Spencer LLC
 95 Isidor Ct
 Sparks, NV 89441

MINDEN GARDNERVILLE

SANITATION DISTRICT
 1790 HWY 395
 MINDEN, NEVADA 89423

hpotts@chspencer.com
 775-825-8882 ph
 775-425-8782 fx

May 30, 2023

Our Reference : RNHP23-05-15 01

Parts Proposal

Qty	Item #	Part Description	Lead Time	Est.W gt # (per unit)	Cust Stock	Part No	Unit Price (USD)	Extended List Price (USD)
1	101	IMPELLER 011.946 28% CHR CI(ANL)	16 weeks	0.00		051771G0201286	19,852.00	19,852.00
1	122	SHAFT ANSI 1045 STL	10 weeks	0.00		056172G0802358	4,872.00	4,872.00
1	104	SLEEVE, SHAFT 316SS TC COATED		0.00		056192G3506995	10,050.00	10,050.00
1	351	GASKET 14.50" X 12.75" X .030" RUBBER ASTM 3CA715A25 B14-C12		0.00		A00128G0285121	117.00	117.00
1	315	LINER,ELBOW 28% CHR CI(ANL)	16 weeks	0.00		056029G5501286	17,391.00	17,391.00
1	264B	GASKET 8.00" X 5.06" X .062" RUBBER ASTM 3CA715A25 B14-C12		0.00		A00152G0395121	150.00	150.00
1	412F	O-RING ID 2-1/4 W=1/8" RUBBER ASTM 3CA715A25 B14-C12		0.00		A00124G2285121	10.00	10.00
2	112C	BEARING,BALL 313, SKF				8050-31340	2,482.00	4,964.00
4	112	BEARING,BALL 7313 BEGAM, SKF		6.00		8057-31301	1,246.00	4,984.00
2	333D	SEAL,OIL #11660*LPD OR EQUAL				8690-11660	141.00	282.00
1	331	SHIM KIT POLYESTER SHIM STOCK		0.00		055040G0006310	218.00	218.00
2	382	LOCKSWHR,BRG SKF W13				8910-0013	23.50	47.00
2	123	DEFLECTOR, CAST IRON		2.00		056114G8601002	1,707.00	3,414.00

Terms: Quote valid for 15 (days)

TOTAL FOR THESE PARTS **\$66,331.00**

Estimated Total Weight

Currency: USD
 28.0 lb





C. H. Spencer LLC

(775) 825-8882

Sparks Nevada Office
Email: hpotts@chspencer.com

(775) 425-8782 fax

Quotation

Customer Minden Gardnerville Sanitation District

Date May 30, 2023
 Terms Net 30
 FOB Factory
 Delivery 2-3 weeks
 Ship Via Ground PPA

Quote # hp050323

Quantity	Material Description	Unit	Unit Price	Extended Price	Leadtime
1	2089383 CHESTERTON 442C-22 2.75" SC/SC/MITON SEAL	ea		\$ 4,905.00	2-3 wks
				\$ -	
				\$ -	
				\$ -	
				\$ -	
	See our Terms & Conditions at http://chspencer.com/terms . Delivery and receipt of acknowledgement, shipment of product, or commencement of production will confirm acceptance of the Terms & Conditions. Equipment to be manufactured according to plans and specifications.			\$ -	
	Quote does not include shipping or tax			\$ -	

Quotation is valid for 15 days.

Total Amount

\$ 4,905.00

Leadtime Quoted are based on quantities on hand and are subject to prior sale.

Parts Required	Qty	Cost	Total
Shaft Repairs	1	\$ 1,595.00	\$ 1,595.00
Peel Away Gaskets	0	\$ 300.00	\$ -
Radial Bearing	2	\$ 395.30	\$ 790.60
Angular bearing	1	\$ 406.28	\$ 406.28
Bearing Housing seal	2	\$ 44.00	\$ 88.00
Mechanical seal	1	\$ 4,905.00	\$ 4,905.00
12in pipe seal	2	\$ 32.49	\$ 64.98
Total			\$ 7,849.86
Shaft Sleeve	1	\$ 10,050.00	\$ 10,050.00
Total with parts from stock			\$ 17,899.86

Pump 1

Parts Required	Qty	Cost	Total
Shaft Repairs	1	\$ 1,160.00	\$ 1,160.00
Peel Away Gaskets	1	\$ 300.00	\$ 300.00
Radial Bearing	2	\$ 395.30	\$ 790.60
Angular bearing	1	\$ 406.28	\$ 406.28
Bearing Housing sea	2	\$ 44.00	\$ 88.00
Mechanical seal	1	\$ 4,905.00	\$ 4,905.00
12in pipe seal	2	\$ 32.49	\$ 64.98
Total			\$ 7,714.86

Shaft Sleeve	1	\$ 10,050.00	\$ 10,050.00
Propeller	1	\$ 19,852.00	\$ 19,852.00

Total with parts from stock **\$ 37,616.86**

Pump 2

Description	Supplier	Cost	qty	total
Pump Shaft repairs Pump#1	AnC Precision	\$ 1,595.00	1	\$ 1,595.00
Pump Shaft repairs Pump#2	AnC Precision	\$ 1,160.00	1	\$ 1,160.00
Reverse engineer parts	AnC Precision	\$ 870.00	1	\$ 870.00
Peel away gaskets	AnC Precision	\$ 300.00	1	\$ 300.00
Radial Bearing	Grainger	\$ 395.30	4	\$ 1,581.20
Angular Bearing	Grainger	\$ 406.28	2	\$ 812.56
Bearing Shipping	Grainger	\$ 23.19	1	\$ 23.19
Bearing housing Seals	Motion Industries	\$ 28.00	2	\$ 56.00
Bearing housing seals	Amazon	\$ 44.00	3	\$ 132.00
12in pipe gasket	Western Nevada	\$ 32.49	4	\$ 129.96
Mechanical seal	C.H. Spencer	\$ 4,905.00	2	\$ 9,810.00
Tools	Hajoca	\$ 2,403.29	1	\$ 2,403.29
Total				\$ 18,873.20

Parts ordered



MIGSD

MINDEN-GARDNERVILLE SANITATION DISTRICT

EST. 1964







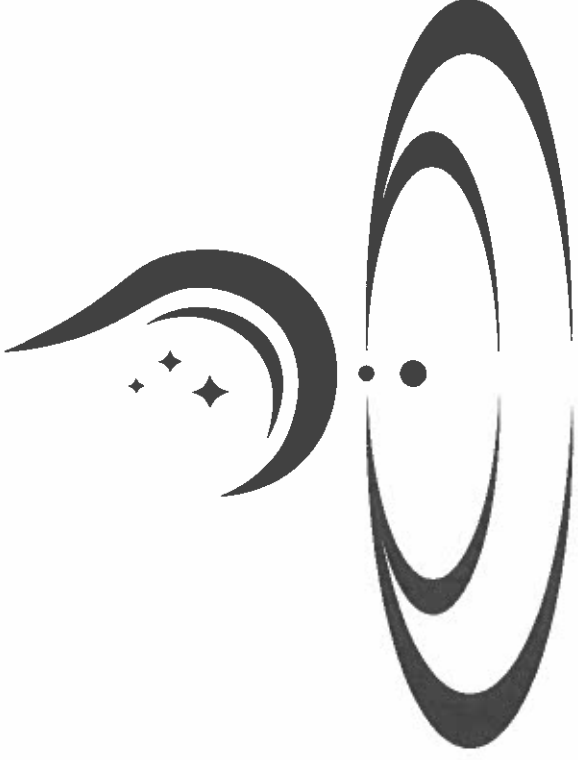
MINDEN-GARDNERVILLE SANITATION DISTRICT

SINCE 1964



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