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## PROJECT

WATER UTILITY PUMPS

## PARTICULAR SPECIFICATION

SLUDGE PUMPS 1200-PU-1430 / 1430 X

0	09/07/2013	Issued For Purchase (IFP)	C. FOURNIER	M.VERGARA	C. FOURNIER	
Α	25/02/2013	Issued For Design (IFD)	C. FOURNIER	M.VERGARA	C. FOURNIER	
Rev	Date	STATUS	WRITTEN BY	CHECKED BY	APPROVED BY	
i.ev	DD/MM/YYYY	514105	(name & visa)	(name & visa)	(name & visa)	
	DOCUMENT REVISIONS					

1			SPECIFICATION/ Specification Pag. 2/3						
2			Drain	at Unit F	Desument tures	Material code	Serial number	Revision	Ř
3 4				ct - Unit [ J -1200	Document type SP	0910	\$enarhumber \$005		-
5									
6		P DATA SHEET Total quantity: 2 (5)							
7	Site:	Item No : 1200-PU-14	430 / 1430 X		Quantity runni				_
8 9	Unit: 1200, Sanitary Water Treatmer Mechanical Data Sheet for: Inquiry	nt ■ Purchase □ As built	Process reference	9806 L	Quantity spare	· · · · ·	n warehouse		_
10	Vendor: KSB	Service: Sludge Pump			Installation:	horizontal	vertical		-
11	Manufacturer:	Duty: Continuous batch			□ flooded	self priming	submersible		
12	Model: Sewatec F 50-250G	Location: outdoor exposed to eler			Electrical area	classification:	None classified a	area	_
13 14	Serial number:	indoor heated  PRODUCTS	unheated REQUIRED OPERATING DATA (per pump)						
14	Fluid: Sludge (1)		Flow (m3/h): mini normal: 3 rated: 3 maxi:						
16		e 🗆 flamable 🗌 toxic 🗖 other: Erosive	Discharge pressu	re (bar g.): <b>1,</b> '	1				
17	Gas content: no yes		Suction pressure	, , ,	,01		maxi: 0,5		_
18 19	Solids content: no yes Pumping temperature Tp (°C): mini:	normal: 5 maxi: 47	Differential pressu Total head (m of L						_
20	Specific gravity at TP: mini:	normal: 1 maxi: 1,05	Available NPSH (	,					-
21	Dynamic viscosity at Tp (Cp):	normal: 1 maxi: 20	Garanteed point :		3 m3/h @ 11 m				-
22	Vapour pressure at TP (bar a.): mini:	normal: 0,106 maxi:	Speed control: No					_	
23 24	Atmospheric boiling temperature (°C): Specific heat (kJ/ kg/ °C):	Start-up conditions		pen Valve				+	
24	ορουπο πσαι (κυ/ κυ/ ο).	Dry run requirements: Parallel/ serie operation:					+		
26			Basic material (we						1
27		endor to complete)							
28 29	Type:     classic volute     segmented     barrel(HP)     in-can     in-line     Remark       priming volute     side chanel     high speed     w/separate priming								+
30	monostage multistage	hygienic construction		PERFOR	RMANCES (per p	oump) (Vendor to	complete)		-
31			Rotation facing co			Counter Cloc			
32	Basic design: 📃 Std Manufacturer	] other:	Performance curv	e reference:					
33		Vendor at (°C):	Pump speed:						_
34 35	Casing type:	d lined other:	Allowable speed range: Maximum Allowable Working Pressure (bar g.): at (°C)					_	
36	with diffuser with wear ring	Maximum Allowable Temperature (°C):					-		
37	Casing nozzles Orient. Size Ra	ting Facing Remarks:	Performances with	h offered diar	meter mini	normal	rated		
38		50 RF	Stable flow (m3/h)	)	(3)				4_
39 40	Discharge Top 2" 1 Drain	50 RF Plunged	Total Head (m) Required NPSH (I	m)					
40	Vent	By Vendor	Hydraulic impeller	,	6)				+
42	Casing split: 🗖 radial 🗌 axial		Required power a	<b>P</b> 1		ł	1		
43	Casing support	bearing frame other:	Shut off head (m):						
44 45	Shaft: solid (no sleeve) Impeller: closed semi open	sleeved     open     with wear ring	Flow at Best Efficiency point (m3/h): Impeller diameter (mm): mini: maxi: installed:						
46	single flux double flux	□ vortex □ vane wheel	Dry run capability:						
47	□ radial □ mixed flow	axial							
48							(-)		_
49 50	Impeller mount: overhang between Impeller attachment: screwed	0	□ None □	Packing	Labyrinth	endor to comple	,		-
51	Impeller attachment:          Screwed         Keyed         other:            Bearing type/ lubrif.:          Drive End         /					yurouy			1
52	Non Drive End	1							1
53		Irive system anchored stilt mounted	Mechanical s	eal: 🗌 sir	•		] cartridge		+-
54 55	moulded     bended sheet     fabr	ICATED	□ contact □ spring(s)	)	witho	out contact			+
56	MATERIALS (Ven	dor to complete) (2)	Mounting: Gace	,	back to ba		] tandem		1
57	Casing(s)/ Cover:	Casing wear ring:	C rotating t	flexible eleme	ent	stationary fle	xible element		1
58	Casing liner:	Casing gasket:			huffer fluid	<b>—</b> 1.	rion fluid		+-
59 60	Impeller: Shaft:	Impeller wear ring: Shaft sleeve:	Pressurisation:	N/A I	buffer fluid	circulation by	rier fluid		+
61	Stuffing box:	Gland:	Seal chamber:		tapped (e		jacketed		+
62	Wetted bolting:	Bearing housing:		with casing	internal	<b>•</b> ,	with throttle bushi	•	1
63	Baseplate:		Seal manufacture	r/ Model: By		<u> </u>	API Plan		╢
64 65	DRIVE SYSTEM DESCRIP	PTION (Vendor to complete)	Norme		Product side		Atmospheric si	ue	╢─
66	Driver: Electrical (4)		Max allow. pressu	ıre					1
67	■ fixed speed □ Variable spee	Balancing						1	
68	supplied/ mounted by: By Vend	Spring/ Bellow							
69 70	manufacturer/ model: Leroy so nameplate power/ speed: 2,2	O'Ring/ gaskets Cartridge sleeve:							
70	Connection driver/ pump: pulley/ be	End plate:						1	
72	direct(separately coupled)						1		
73	The state of the s								
74 75	Electrical utility data: Volts: 400 Hertz: 50	┦ ── ──							
75		f - F							
77			<u> </u>						
78								-	

1	SPECIFICATION/ Specification	- Pag. 3/3 کالا ہے۔ کالا					
3	Project - Unit Document type Material code Serial n	umber Revision					
4 5	9806J -1200 SP 0910 `00	05 0					
6	ACCESSORIES (Vendor to complete)	SUPPLY BY					
7 8	Pulleys/ belts: Coupling(s): Flexible (Spacing type), service factor 1,5 min.	VENDOR					
9 10	Safety guards: No sparking type	VENDOR					
11	Gear box: Type: Nameplate power/ speed: Service factor:						
12 13	Manufacturer/ model:						
14							
15 16	Seal pot:     Material:     Design/ fabric. code:     Deseplate mounted     stand alone       Available connections:						
17	Initiality connections.     Initiality in the initial international internatione international international international international interna						
18 19	Type of connections: threaded flanged Basenlate with drin recovery (D=25 mm mini) handling devices earthing lugs	VENDOR					
20 21	Deception     Color support						
22 23	Temperature: Vibrations: Pump : Only flat surface for magnetic measuring equipment						
23							
25							
26 27	Variable Speed Drive :						
28	AUXILLIARY CIRCUITS DESCRIPTION (Vendor to complete)						
29 30	Function         Fluid/ Flow         Material         P/ T design         Main features           (name / m3/hr)         (kPa g. / °C)         (kPa g. / °C)         (kPa g. / °C)         (kPa g. / °C)						
31							
32 33							
34							
35 36							
37	INSPECTION AND TESTS (Vendor to complete) (6)						
38	Shop inspection In Stress Office Officials Officials Type Office description (consultants of the Office Off	By Vendor					
39 40	Material certificates       Ino       Iyes       Type 3,1 for Stainlee Steel parts, Type 2.2 for other parts (according to EN 10204)         Hydraulic test       Ino       Iyes       with (1,5 x nominal pressure) during 30 minutes.	By Vendor By Vendor					
41	NPSH test     Ino     Iyes     Required only if difference between NPSHa and NSPHr < 1m at rated point	By Vendor					
42 43	Performance test         Ino         yes         5 points of measurement. Including mechanical running test 2 hrs, according to JSS-0910-001, Point 7.6.2           Balancing test         Ino         yes         Vendor to detail procedure, according to ISO 1940 G 6.3	By Vendor By Vendor					
44	Vibrations measurement no yes at guaranteed point with limit indicated in 9806J-0000-JSS-0910-001	By Vendor					
45 46	Sound level measuremen         no         yes         85 dB(a) @ 1m           Dismantling after test         no         yes         only if required after defects are measured	By Vendor By Vendor					
47							
48 49	MISCELLANEOUS (Vendor to complete)						
50	Painting: Standard Vendor Other:	By Vendor					
51 52	Tracing/ Insulation: Special tools: If required	By Vendor					
53							
54 55	Weights (kg):     Bare pump:     Driver:     Baseplate:     Total:	By Vendor					
56							
57 58	NOTES: (1) Max Total Suspended Solids (TSS) = 50 g/L						
59	(1) Max Total Suspended Solids (TSS) = 50 g/L         (2) Cast Iron						
60 61	(3) Vendor shall indicate continous stable minimum flow .						
62							
63 64	3 - Pump + Coupling + Motor - Pump						
65	5 (6) Refers to : 9806J-0000-ITP-0910-002						
66 67							
68	GENERAL REMARK :						
69 70	- Resistant material nameplate (tag number, vendor name and adress, pump datas) with resistant fixation must be provided by Vendor.     - Direction of rotation ( arrow ) shall be marked with permanent mark,						
71	- Final coat of paint must be coated after test final inspection.						
72							