

2016 Submersible Pumps & Controls Price List

Domestic & Commercial Wastewater



Effective April 13, 2016

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ARRA Products, Warranty Upgrades & Custom O&M Manuals

ARRA (Buy America) compliant products

There is a net price adder of 8% for all products contained in this price list (except controls) that must be ARRA compliant. There is no adder for ARRA compliant controls. The requirement for ARRA compliance must be declared on your purchase order.

Warranty Upgrades

Note: Warranty upgrades only extend the term for coverage for defects in material or workmanship as detailed in the standard warranty statement. They do not provide coverage for wear, misapplication, or other failures not covered by the standard warranty statement.

Description	Adder to	Part Number
Pump Series AS, Piranha, Scavenger, Basin Pkg		
<i>One Year Full Warranty, upgraded to Two Year Full Warranty</i>	C/F	85066106
Pump Series XFP, AFP, AFL, VUP sold in the <u>Municipal or Domestic & Commercial Market</u>		
<i>Five Year Prorated Warranty, upgraded to Two Year Full (non-prorated) Warranty</i>	C/F	85066136
<i>Five Year Prorated Warranty, upgraded to Three Year Full (non-prorated) Warranty</i>	C/F	85066115
<i>Five Year Prorated Warranty, upgraded to Four Year Full (non-prorated) Warranty</i>	C/F	85066116
<i>Five Year Prorated Warranty, upgraded to Five Year Full (non-prorated) Warranty</i>	C/F	85066117

Instructions:

1. Warranty upgrades are priced based on a percentage of the **LIST** price of the product to be covered.
2. Multiply the **LIST** price of the product to be upgraded, by the percentage secured from your Business Development Manager or Factory
3. Apply your normal Sales Rep or Distributor discount to the resulting price to obtain the Net Price.
4. Enter the warranty upgrade part number and calculated net price on your purchase order, below the item to be covered.
5. Review Sulzer order acknowledgement to confirm that warranty upgrade for each product appears on the order by part number.
6. Sulzer order acknowledgement or packing slip showing warranty upgrade part numbers will be required for warranty repair claims.

Notes:

1. These warranty upgrades adjust the duration or the prorated vs. non-prorated nature of the standard product warranties.
2. All terms, conditions, limitations stated in the standard warranty apply to the upgraded warranty.
3. The upgraded warranty completely supercedes the standard product warranty. It is **not** "in addition to" the standard warranty.
4. These warranty upgrades may only be applied to the product families defined above.
5. Misapplication of the product *will void the warranty*, so don't use the upgraded warranty to "cover up" for a bad application.
6. A separate warranty upgrade must be purchased for each pump in a multiple pump system.
7. All pumps in a system must have the same level of warranty coverage (you cannot upgrade only 1 pump in a duplex system).
8. An upgraded warranty on a pump also covers the pump accessories supplied by Sulzer (guide rail system, lift chains, guide brackets, etc.)
9. An upgraded warranty on a control also covers the control accessories (float switches, float brackets, level transducers, etc.).
10. Warranty upgrades must be purchased on the same order as the pumps. They cannot be purchased afterward on a separate order.

Custom O&M Manuals

Custom Operation & Maintenance Manuals

Description		List Price	Part Number
Custom O&M Manual, ABS Standard Presentation (see description below)	first 5 copies	\$2,140	85056000
	6th + copy	\$52	-
Custom O&M Manual, Per Job Specifications (see description below)	first 5 copies	\$3,168	C/F
	6th-10th copy	\$129	-
	11th + copy	\$70	-
Adder for O&M on CD in Acrobat Reader Format	first 5 copies	\$429	C/F
	6th + copy	\$19	-

Notes:

Custom O&M manuals are priced based on a fixed price for the first 5 copies, then a per unit price for subsequent copies. The pricing is for **each product, location, or station** within a job. For example, if the job consists of two pump stations, each having different model pumps installed, the custom O&M charge must be multiplied by two. If however the two pump stations *on the same job* had the same pump models installed, just one custom O&M charge would be required. Contact ABS for clarification on other specific situations.

Custom O&M Manuals, ABS Standard Presentation, include a customized cover sheet with project and contact information, product detail sheets from the ABS submittal package (assuming ABS prepared the submittal), test curves and documents for those tests purchased with the job, parts lists, standard factory operation & installation manual, electrical connection diagrams, control panel schematics (assuming ABS supplies the controls), blank startup report form, and warranty statement. Manual is bound in a soft cover binder or three ring binder depending on page quantity.

Custom O&M Manual, Per Job Specifications is custom made to meet the intent of the specific job specifications. It contains only those documents required by the specifications.

3" XFP SERIES PUMPS



XFP MODELS	MOTOR	VOLTAGE	LIST PRICE WET PIT	LIST PRICE DRY PIT	HP	PHASE/ RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME	WET PIT ACCY. CODE	DRY PIT ACCY. CODE
080C-CB1	PE 28/4W	230	\$5,083	\$5,083	3.8	1/1780	1 vane CB plus	216	PE1	W 3.1	D 3.4
	PE 20/6W	230	\$4,797	\$4,797	2.7	1/1180		220			
	PE 28/4	230,460,600	\$4,484	\$4,484	3.8	3/1780		215			
		208	\$4,647	\$4,647	4.7			221			
	PE 35/4	230,460,600	\$4,705	\$4,705	4.7	3/1180		221			
	PE 20/6	230,460,600	\$4,823	\$4,823	2.7			221			
080E-CB1	PE 125/2	230,460,600*	\$7,803	N/A	16.8	3/3450	1 vane CB	381	PE2	W 3.2	N/A
		208	\$8,409	N/A							
080C-VX	PE 18/4W	230	\$4,644	\$4,644	2.4	1/1780	vortex	211	PE1	W 3.1	D 3.5
	PE 28/4W	230	\$5,155	\$5,155	3.8			216			
	PE 22/4	230,460,600	\$4,112	\$4,112	2.9	3/1780		214			
		208	\$4,242	\$4,242	3.8			214			
	PE 28/4	230,460,600	\$4,335	\$4,335	3.8	3/1780		214			
		208	\$4,498	\$4,498	4.7			220			
PE 35/4	230,460,600	\$4,678	\$4,678	4.7	220						
081C-VX	PE 45/2	230,460,600	\$5,859	\$5,859	6	3/3450	vortex	231	PE1	W3.1	D3.5
		208	\$6,298	\$6,298							
081E-VX	PE 80/2	230,460,600	\$6,835	N/A	10.7	3/3450	vortex	300	PE2	W 3.2	N/A
		208	\$7,137	N/A							
	PE 125/2	230,460,600	\$7,625	N/A	16.8			335			
		208	\$8,231	N/A							

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in EXPLOSION PROOF construction only.

Standard cable length for **PE1 and PE2** pumps is **49 feet**. See options page for other lengths.

XFP Pumps available in 208 and 230 volt single phase (PE1 only), and 208, 230, 460, and 600 volt three phase.

Single phase XFP series pumps require a control panel or external start kit to operate.

Drilled suction flange is included, except for 080E-CB1 and 081E-VX, which are not available in dry pit versions

Dry pit version of PE1 pumps include heat transfer fluid in the motor and drilled suction flange or dry pit type CB bottom plate

Pump weight includes guide rail system sliding bracket.

3" XFP ACCESSORIES & OPTIONS

Motor Options

Motor Frame	Longer Power Cable		
	Total Cable Length	List Price	
		230V	460V/600V
PE1	65 feet	\$252	
	98 feet	\$623	
PE2	65 feet	\$480	\$394
	98 feet	\$1,431	\$1,021

Pump Wet End Options

Pump Model	Wear Plate in Stainless Steel	Impeller in 329 Stainless Steel *	Hardened Hydraulics (cast iron only)**	Volute in Stainless Steel
	List Price	List Price	List Price	List Price
XFP 080C-CB1	\$1,635	\$2,213	\$915	N/A
XFP 080E-CB1	N/A	N/A	N/A	N/A
XFP 080C-VX, 81C-VX	N/A	\$1,619	N/A	N/A
XFP 081E-VX	N/A	\$2,155	N/A	N/A

Note: Hydraulic performance of a stainless steel impeller may be slightly lower than equivalent cast iron impeller.

Paint & Other Options

Motor Frame	Two Part Epoxy (8 mils DFT)		Two Part Epoxy (16 mils DFT on PE1, PE2)		Viton Primary Seal and O-rings	Pump Lifting Hoop, Stainless Steel	
	Part No.	List Price	Part No.	List Price	List Price	Part No.	List Price
PE1	-	N/A	85026050	\$274	\$278	standard	-
PE2	-	N/A	85026049	\$302	\$396	standard	-

Notes:

Standard cable length for **PE1, and PE2** pumps is **49 feet**.

* Selected impeller sizes available in stainless steel. Consult Factory for specific sizes.

**Hardening of bottom edge of impeller and wear plate surface only.

Drilled suction flange is included on XFP 080C pumps.

Standard coating for all XFP pumps is two part Epoxy 4.7 mils DFT

N/A = not available or not applicable. C/F = consult factory

3" XFP INSTALLATION ACCESSORIES

W 3.1 Wet Pit Accessories			D 3.4 Dry Pit Accessories**		
	Part No.	List Price		Part No.	List Price
Guide Rail Assy w/ Integral Elbow	62320649	\$516	Vertical Dry Pit Stand		
Guide Rail Assy, w/o elbow, std	62320517	\$550	(use w/ 4" elbow only)	41826088	\$1,148
GRA w/ Integral Elbow, non-spark	62326032	\$800	Hardware Kit (pump to stand)	62306217	\$34
Guide Rail Assy, w/o elbow, non-spark	4059130-22	\$932	Horizontal Dry Pit Mounting Kit	61825032	\$176
Hardware Kit (pump to slide brkt.)			Suction Elbow, 4" w/ Cleanout	40536011	\$1,011
For 62320649 & 62326032	62306249	\$89	Hardware Kit (suction elbow to pump)	62306237	\$135
For 62320517 & 4059130-22	62306001	\$37	Discharge Elbow, DN80X3****	30516006	\$443
Discharge Elbow, 3X3***	4051003	\$262	Discharge Elbow, DN80X4****	40516007	\$749
Discharge Elbow, 3X4 short rad***	4059444Y-03	\$677			
Discharge Elbow, 3X4 long rad***	4059443Y-03	\$592			
Hardware Kit (elbow to base)	62306042	\$34			
Intermed. GR Brkt- 3" Disch. Pipe	V25-00128	\$263			
Intermed. GR Brkt- 4" Disch. Pipe	V25-00090	\$263			
Stainless Steel Upper Guide Brkt	41686001	\$142			
Wet Pit Stand*	61355016	\$291			
Wet Pit Disch Elbow****	30516006	\$443			
Hardware Kit (disch elbow to pump)	62306274	\$107			
W 3.2 Wet Pit Accessories			D 3.5 Dry Pit Accessories**		
	Part No.	List Price		Part No.	List Price
Guide Rail Assy w/ Integral Elbow	62320649	\$516	Vertical Dry Pit Stand		
GRA w/ Integral Elbow, non-spark	62326032	\$800	(use w/ 3" and 4" elbows)	41826111	\$1,148
Hardware Kit (pump to slide brkt.)	62306249	\$89	Hardware Kit (pump to stand)	62306217	\$34
Intermed. GR Brkt- 3" Disch. Pipe	V25-00128	\$263	Horizontal Dry Pit Mounting Kit	61825033	\$182
Intermed. GR Brkt- 4" Disch. Pipe	V25-00090	\$263	Suction Elbow 3" w/cleanout	40536015	\$810
Stainless Steel Upper Guide Brkt	41686001	\$142	Suction Elbow 4" w/cleanout	40536017	\$1,033
Wet Pit Stand*	61355017	\$291	Hardware Kit (suction elbow to pump)	62306237	\$135
Wet Pit Disch Elbow****	30516006	\$443	Discharge Elbow, DN80X3****	30516006	\$443
Hardware Kit (disch elbow to pump)	62306274	\$107	Discharge Elbow, DN80X4****	40516007	\$749
For ALL W 3 Wet Pit Assy					
	Part No.	List Price			
Eccentric Increaser 3"x 4"	13706011	\$625			
Hardware Kit (increaser to base el.)	C/F	\$35			

Notes:

Include price of applicable hardware kits on your order. See separate page for lifting chain assemblies

Guide rail assemblies shown in W 3.1 and W 3.2 use 2" guide rail pipe.

Guide rail pipe is not included.

* Hardware kit is included with wet pit stand.

** Dry pit version of pump required. Select from pump price list.

*** These discharge elbows can be used with 62320517 and 4059130-22 base assemblies only. They will not attach to the pump discharge flange.

**** This elbow attaches to the pump discharge flange.

Dual rail systems and accessories are available. Consult factory for part numbers and pricing.

4" XFP SERIES PUMPS

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

XFP MODELS	MOTOR	VOLTAGE	LIST PRICE		PHASE HP	IMPELLER	WGT. (lbs.)	MOTOR FRAME	WET PIT	DRY PIT
			WET PIT	DRY PIT					ACCY. CODE	ACCY. CODE
100C-CB1	PE 28/4W	230	\$4,880	\$4,880	3.7	1/1780	236			
	PE 20/6W	230	\$4,868	\$4,868	2.7	1/1180	240			
	PE 28/4	230,460,600	\$4,784	\$4,784	3.7	3/1780	235	PE1	W 4.1	D 4.2
		208	\$4,947	\$4,947			1 vane CB plus			
	PE 35/4	230,460,600	\$5,005	\$5,005	4.7		240			
		208	\$5,135	\$5,135						
PE 20/6	230,460,600	\$5,146	\$5,146	2.7	3/1180	240				
	208	\$5,276	\$5,276							
100C-VX	PE 18/4W	230	\$4,469	\$4,469	2.4	1/1780	203			
	PE 28/4W	230	\$4,980	\$4,980	3.7		213			
	PE 22/4	230,460,600	\$4,192	\$4,192	3	3/1780	207	PE1	W 4.1	D 4.12
		208	\$4,322	\$4,322			vortex			
	PE 28/4	230,460,600	\$4,415	\$4,415	3.7		213			
		208	\$4,578	\$4,578						
PE 35/4	230,460,600	\$4,636	\$4,636	4.7		213				
	208	\$4,766	\$4,766							
100E-CB1	PE 45/4	208 or 230	\$6,773	\$6,773	6	3/1780	357	PE2	W 4.1	D 4.10
		460 or 600	\$5,855	\$5,855			1 vane CB plus			
	PE 56/4	208 or 230	\$7,711	\$7,711	7.5		383			
		460 or 600	\$6,148	\$6,148						
	PE 75/4	208 or 230	\$7,972	\$7,972	10		390			
		460 or 600	\$6,563	\$6,563						
	PE 90/4	208 or 230	\$8,252	\$8,252	12		390			
	460 or 600	\$6,818	\$6,818							
PE 105/4	208 or 230	\$8,131	\$8,131	14		416				
	460 or 600	\$7,024	\$7,024							
PE 35/6	208 or 230	\$7,204	\$7,204	4.7	3/1180	390				
	460 or 600	\$6,867	\$6,867							
100E-VX	PE 45/4	208 or 230	\$6,728	\$6,728	6	3/1780	357	PE2	W 4.1	D4.10
		460 or 600	\$5,810	\$5,810			vortex			
	PE 56/4	208 or 230	\$7,666	\$7,666	7.5		383			
		460 or 600	\$6,103	\$6,103						
	PE 75/4	208 or 230	\$7,927	\$7,927	10		364			
		460 or 600	\$6,518	\$6,518						
PE 90/4	208 or 230	\$8,207	\$8,207	12		389				
	460 or 600	\$6,773	\$6,773							
PE 105/4	208 or 230	\$8,086	\$8,086	14		389				
	460 or 600	\$6,979	\$6,979							
100E-CP2	PE 75/4	208 or 230	\$8,408	\$8,408	10	3/1780	364	PE2	W 4.1	N/A
		460 or 600	\$6,999	\$6,999			2 vane Chopper			
	PE 105/4	208 or 230	\$9,281	\$9,281	14					
	460 or 600	\$8,174	\$8,174							

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length for **PE1 and PE2** pumps is **49 feet**. See options page for other lengths.

XFP Pumps available in **208** and **230** volt **single** phase (PE1 only), and **208, 230, 460,** and **600** volt **three** phase.

Single phase XFP series pumps require a control panel or external start kit to operate.

Drilled suction flange is included, except for 100E-CP2, which is not available in dry pit version

Dry pit version of PE1 and PE2 pumps include heat transfer fluid in the motor and drilled suction flange or dry pit type CB bottom plate

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

4" XFP SERIES PUMPS CONT'D

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

XFP MODELS	MOTOR	VOLTAGE	LIST PRICE		PHASE /RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME*	WET PIT ACCY. CODE	DRY PIT ACCY. CODE	
			WET PIT	DRY PIT							
100G-CB1	PE 130/4	208 or 230	\$13,502	\$14,292	17		708				
		460 or 600	\$12,501	\$13,290							
	PE 150/4	208 or 230	\$13,890	\$14,680	20		735				
		460 or 600	\$12,889	\$13,678							
	PE 185/4	208 or 230	\$14,550	\$15,340	25	3/1780	1 vane CB plus	741		W 4.1	D 4.11
		460 or 600	\$13,549	\$14,338							
PE 210/4	208 or 230	\$14,955	\$15,745	28		741					
	460 or 600	\$13,954	\$14,743								
PE 250/4	208 or 230	\$15,519	\$16,309	33		792	PE3.5				
	460 or 600	\$14,518	\$15,307								
100G-CB1	PE 90/6	208 or 230	\$14,967	\$15,756	12	3/1180	1 vane CB Plus	721	PE3	W 4.1	D 4.11
		460 or 600	\$13,783	\$14,572							
101G-VX	PE 230/2	208 or 230	\$14,588	\$15,377				PE3			
		460 or 600	\$12,364	\$13,153							
	PE 300/2	208 or 230	\$15,179	\$15,969	40	3/3450	vortex	628		W 4.3	D 4.11
101G-CB1	PE 185/2	208 or 230	\$14,497	\$15,286	25		628				
		460 or 600	\$12,273	\$13,062							
	PE 200/2	208 or 230	\$14,751	\$15,540	27		628				
		460 or 600	\$12,527	\$13,316							
	PE 230/2	208 or 230	\$15,134	\$15,923	31	3/3450	1 vane CB	640	PE3	W 4.3	D 4.6
460 or 600		\$12,910	\$13,699								
PE 300/2	208 or 230	\$15,725	\$16,515	40		650					
	460 or 600	\$13,723	\$14,512								
100J-CH1	PE 250/4	230	\$27,275	\$30,203	33		1034				
		460 or 600	\$24,280	\$27,208							
	PE 350/4	230	\$29,159	\$32,087	47		1089				
		460 or 600	\$26,164	\$29,092							
	PE 430/4	230	\$30,500	\$33,428	58	3/1780	1 vane closed**	1155	PE4	W 4.5	D 4.5
460 or 600		\$27,505	\$30,433								
PE 520/4	230	\$31,592	\$34,520	70		1508					
100J-CH1	PE 630/4	460 or 600	\$40,088	\$42,853	84	3/1780	1 vane closed**	1846	PE5	W 4.5	D 4.5
100J-CH2	PE 250/4	230	\$26,777	\$29,705	33		1034				
		460 or 600	\$23,782	\$26,710							
	PE 350/4	230	\$28,661	\$31,589	47		1089				
		460 or 600	\$25,666	\$28,594							
	PE 430/4	230	\$30,002	\$32,930	58	3/1780	2 vane closed**	1155	PE4	W 4.5	D 4.5
460 or 600		\$27,007	\$29,935								
PE 520/4	230	\$31,004	\$33,932	70		1508					
100J-CH2	PE 630/4		\$39,451	\$42,216	84		1846				
	PE 860/4	460 or 600	\$44,253	\$47,018	115	3/1780	2 vane closed**	1938	PE5	W 4.5	D 4.5
	PE 1040/4		\$47,332	\$50,097	140		2137				

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length for **PE3, PE3.5, PE4, and PE5** pumps is **49 feet**. See options page for other lengths.

XFP PE3 pumps available in **208, 230, 460, and 600** volt **three** phase.

XFP PE4 and PE5 pumps available in **230, 460, and 600** volt **three** phase. Consult factory for PE4 and PE5 in 208 volt and PE5 in 230 volt.

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details.

** Indicates impeller can be trimmed.

Dry pit version of PE3, PE4, and PE5 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Full monitoring system is optional on PE4 and PE5 motors, and is not available on PE3 motors.

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

4" XFP SERIES PUMPS CONT'D

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

XFP MODELS	MOTOR	VOLTAGE	LIST PRICE		HP	PHASE/R		WGT. (lbs.)	MOTOR FRAME*	WET PIT ACCY. CODE	DRY PIT ACCY. CODE
			WET PIT	DRY PIT		PM	IMPELLER				
	PE 350/4	230 460 or 600	\$27,516 \$24,521	\$30,444 \$27,449	47			1312			
	PE 430/4	230 460 or 600	\$28,858 \$25,863	\$31,786 \$28,791	58	3/1780		1389			
	PE 520/4	230 460 or 600	\$29,949 \$26,954	\$32,877 \$29,882	70			1433			
105J-CB2	PE 210/6	230 460 or 600	\$27,408 \$24,413	\$30,336 \$27,341	28		2 vane CB Plus**	1246	PE4	W 4.5	D 4.9
	PE 250/6	230 460 or 600	\$28,452 \$25,457	\$31,380 \$28,385	33	3/1180		1312			
	PE 350/6	230 460 or 600	\$30,613 \$27,618	\$33,541 \$30,546	47			1400			
	PE 430/6	230 460 or 600	\$30,962 \$27,967	\$33,890 \$30,895	58			1422			
	PE 630/4		\$38,930	\$41,695	84			2172			
105J-CB2	PE 860/4	460 or 600	\$43,732	\$46,497	115	3/1780	2 vane CB Plus**	2260	PE5	W 4.5	D 4.9
	PE 1040/4		\$46,811	\$49,576	140			2481			
	PE 1250/4		\$49,967	\$52,732	168			2679			

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All **XFP** pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length for **PE4, and PE5** pumps is **49 feet**. See options page for other lengths.

XFP PE4 and PE5 pumps available in **230, 460, and 600** volt **three** phase. Consult factory for PE4 and PE5 in 208 volt and PE5 in 230 volt.

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details

** Indicates impeller can be trimmed.

Dry pit version of PE4, and PE5 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Full monitoring system is optional on PE4 and PE5 motors.

Pump weight includes guide rail system sliding bracket.

4" XFP ACCESSORIES & OPTIONS

Motor Options

Motor Frame	List Price	Motor Cooling System (closed system)	Cooling Jacket in Stainless Steel (1.4571, 316Ti)	Longer Power Cable		
				Total Cable Length	List Price 230V 460V/600V	
PE1	N/A		N/A	65 feet 98 feet	\$251 \$624	\$251 \$624
PE2	N/A		N/A	65 feet 98 feet	\$480 \$1,431	\$394 \$1,021
PE3/3.5	See dry pit price		N/A	65 feet 98 feet	\$896 \$2,871	\$581 \$2,613
Additional Power Cable Adder per 16 feet						
PE4	See Dry Pit Price		N/A	16 feet**	C/F	\$651
PE5 (motor sizes 430-630)	See Dry Pit Price		\$9,918	16 feet**	C/F	\$1,298
PE5 (motor sizes 860-1040)	See Dry Pit Price		\$9,918	16 feet**	C/F	\$2,081
PE5 (motor size 1250)	See Dry Pit Price		\$9,918	16 feet**	C/F	\$3,139

Motor Frame	List Price	Full Monitoring System (bearing thermals & 2 add'l seal probes)	Full Monitoring System w/Bearing and Stator RTD's, 1 RTD in stator + 1 in each bearing location + 2 add's seal probes	Full Monitoring System w/Bearing and Stator RTD's, 3 RTDs in stator + 1 in each bearing location + 2 add'l seal probes	Standard Monitoring plus 1 Stator RTD	Isolated Upper Bearing (recommended for PE5 pumps used on VFDs)
PE1	N/A	N/A	N/A	N/A	N/A	N/A
PE2	N/A	N/A	N/A	N/A	N/A	N/A
PE3/3.5	N/A	N/A	N/A	N/A	C/F	N/A
PE4	\$959	\$3,701	\$6,078	\$948	\$948	N/A
PE5	\$959	\$3,701	\$6,078	\$948	\$948	\$862

Pump Wet End Options

Pump Model	List Price	Impeller in 329 Stainless Steel	Wear Plate (CB System) in 329 Stainless Steel	Wear Rings (Impeller & Casing) in Stainless Steel	Hardened Hydraulics (cast iron only)****	Volute in Stainless Steel
XFP 100C-CB1*	\$2,128	\$1,573	N/A	N/A	\$915	N/A
XFP 100E-VX	\$2,319	N/A	N/A	N/A	N/A	N/A
XFP 100E-CB1*	\$2,636	\$3,082	N/A	N/A	\$1,304	N/A
XFP 101G-CB1*	\$2,318	\$4,351	N/A	N/A	\$1,438	N/A
XFP 100G-CB1*	\$5,337	\$5,622	N/A	N/A	\$1,438	N/A
XFP 100J-CH1	\$8,157	N/A	\$1,812	N/A	N/A	C/F
XFP 100J-CH2	\$8,157	N/A	\$1,812	N/A	N/A	C/F
XFP 105J-CB2	***\$7680 Includes SS Wear Plate	N/A	N/A	N/A	\$1,895	N/A

Note: Hydraulic performance of a stainless steel impeller may be slightly lower than equivalent cast iron impeller.

Paint & Other Options

Motor Frame	Part No.	List Price	Two Part Epoxy (16 mils DFT on PE1-PE4, 14 mils DFT on PE5)	Viton Primary Seal and O-rings	Pump Lifting Hoop, Stainless Steel	Drilled Suction Flange
PE1	-	N/A	85026050 \$274	\$283	standard	standard
PE2	-	N/A	85026049 \$302	\$311	standard	standard
PE3	-	N/A	85026062 \$521	\$537	standard	standard
PE4	C/F	\$901	85026063 \$1,883	\$1,940	\$832	\$495
PE5	C/F	\$1,758	C/F \$3,076	\$3,168	\$1,176	\$495

Notes:

Standard cable length for PE1, PE2, PE3, PE3.5, PE4, and PE5 pumps is 49 feet.

* Selected impeller sizes available in stainless steel. Consult Factory for specific sizes.

** Available optional lengths are up to 98 feet in 16 feet increments. Consult factory for longer lengths.

*** SS impeller and wear plate available as a set only, not individually.

****Hardening of bottom edge of impeller and wear plate surface only.

RTDs (type PT100) provide a signal for reading actual operating temperature. One display unit in control required per RTD to receive the signal.

Drilled suction flange is included on XFP PE1, PE2, and PE3 pumps. Drilled flange is optional on PE4, PE5 pumps, but is included with dry pit version.

Standard coating for all xfp pumps is two part Epoxy 4.7 mils DFT

N/A = not available or not applicable. C/F = consult factory

4" XFP INSTALLATION ACCESSORIES

W 4.1 Wet Pit Accessories			W 4.5 Wet Pit Accessories		
	Part No.	List Price		Part No.	List Price
Guide Rail Assy w/ Integral Elbow	62320652	\$635	GRA w/ Integral Elbow, Heavy Duty	DPR32211F	\$2,045
Guide Rail Assy, w/o elbow, std	62320513	\$474	GRA w/ Integral Elbow, non-spark	DPR34211F	\$3,032
GRA w/ Integral Elbow, non-spark	62326034	\$886	Hardware Kit (pump to slide brkt.)	62306007	\$94
Guide Rail Assy, w/o elbow, non-spark	4059130-1	\$1,728	Inter. GR Brkt- 4" Disch Pipe	41686054	\$324
Hardware Kit (pump to slide brkt.)			Inter. GR Brkt- 6" Disch Pipe	41686055	\$263
For 62320652 & 62326034	62306253	\$90	SS Upper Guide Brkt, 2"	41686057	\$154
For 62320513 & 4059130-1	62306001	\$37	Wet Pit Stand		
Discharge Elbow, 4X4, Flanged*	4051004	\$244	XFP 100J-CH1, 100J-CH2	41906012	\$1,012
Discharge Elbow, 4X6, Flanged*	4059443Y-06	\$876	XFP 105J-CB2	41906050	\$1,012
Hardware Kit (discharge elbow to base; not required for 62320652)	C/F	\$65	Hardware Kit (pump to wet stand)	C/F	\$45
Intermed. GR Brkt-4" Disch Pipe	V25-00090	\$263	For ALL W 4 Wet Pit Assy	Part No.	List Price
Intermed. GR Brkt-6" Disch Pipe	V25-00070	\$263	Eccentric Increaser 4"x 6"	13706010	\$629
SS Upper Guide Brkt, 2"	41686001	\$142	Eccentric Increaser 4"x 8"	13706012	\$876
Wet Pit Stand**			Hardware Kit (increaser to base el.)	62306022	\$105
XFP 100C-CB1	61355016	\$290			
XFP 100E-CB1	61355018	\$369			
XFP 100G-CB1	61355025	\$892			
XFP 100C-VX	61355016	\$290			
XFP 100E-VX	61355018	\$369			
XFP 100E-CP	61355018	\$369			
W 4.3 Wet Pit Accessories					
	Part No.	List Price			
GRA w/ Integral Elbow, Heavy Duty	DPR32211F	\$2,045			
GRA w/ Integral Elbow, non-spark	DPR34211F	\$3,032			
Hardware Kit (pump to slide brkt.)	62306007	\$94			
Inter. GR Brkt- 4" Disch Pipe	41686054	\$324			
Inter. GR Brkt- 6" Disch Pipe	41686055	\$263			
SS Upper Guide Brkt, 2"	41686057	\$154			
Wet Pit Stand					
XFP 101G-CB1	61355026	\$393			
XFP 100G-CB1	61355025	\$892			
XFP 101G-VX	61355025	\$892			

Notes:

Include price of applicable hardware kits on your order. See separate page for lifting chain assemblies

Dual guide rail version of the W 4.3 & W 4.5 integral elbow assemblies are available at a \$976 price adder.

Accessories for the dual rail systems are available at a 20% price adder. Consult factory for part numbers.

Guide rail assemblies shown in W 4.1, W 4.3, and W 4.5 use 2" guide rail pipe.

Guide rail pipe is not included.

* These discharge elbows can be used with 62320513 and 4059130-1 base assemblies only. They can also be attached directly to the pump discharge flange.

** Hardware kit is included with wet pit stand

4" XFP INSTALLATION ACCESSORIES...CONT'D

D 4.2 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" elbow only)*		
XFP 100C-CB1	41826088	\$1,149
Hardware Kit (pump to stand)	62306217	\$34
Horizontal Dry Pit Mounting Kit		
XFP 100C-CB1	61825033	\$182
Suction Elbow 4" w/ Cleanout	40536011	\$1,012
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

D 4.5 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" elbow only)*		
XFP 100J-CH1, 100J-CH2	41826007	\$1,315
Hardware Kit (pump to stand)	62306219	\$34
Horizontal Dry Pit Mounting Kit	C/F	\$3,568
Suction Elbow 4" w/ Cleanout	40536011	\$1,012
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

D 4.6 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" elbow only)*	41826130	\$911
Hardware Kit (pump to stand)	62306228	\$47
Horizontal Dry Pit Mounting Kit	C/F	\$573
Suction Elbow 4" w/ Cleanout	40536011	\$1,011
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

D 4.9 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 6" elbow only)	41826174	\$1,247
Hardware Kit (pump to stand)	C/F	\$56
Horizontal Dry Pit Mounting Kit	C/F	\$1,926
Suction Elbow 6" w/ Cleanout	40536005	\$1,624
Note: The 105J-CB2 pump has a 6" suction		
Hardware Kit (suction elbow to pump)	62306179	\$116

D 4.10 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" elbow only)*	41826089	\$1,247
Hardware Kit (pump to stand)		
XFP 100E-CB1	62306219	\$34
XFP 100E-VX	62306217	\$34
Horizontal Dry Pit Mounting Kit	61825030	\$455
Suction Elbow 4" w/ Cleanout	40536011	\$1,012
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

D 4.11 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" or 6" elbow)*	41826116	\$1,376
Hardware Kit (pump to stand)	62306223	\$56
Horizontal Dry Pit Mounting Kit	C/F	\$505
Suction Elbow 4" w/ Cleanout	40536011	\$1,012
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

D 4.12 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 4" elbow only)*		
XFP 100C-VX	41826111	\$1,149
Hardware Kit (pump to stand)	62306217	\$34
Horizontal Dry Pit Mounting Kit	C/F	\$447
Suction Elbow 4" w/ Cleanout	40536011	\$1,012
Suction Elbow 6" w/ Cleanout	40536012	\$2,509
Hardware Kit (suction elbow to pump)	62306272	\$116

Notes:

Include price of applicable hardware kits on your order.

* Consult factory for dry pit stands suitable for use with 4x6 increasing elbows, and for custom stands for pump station retrofit jobs.

** Dry pit version of pump required. Select from pump price list.

See separate page for lifting chain assemblies

6" XFP SERIES PUMPS

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

MODELS	MOTOR	VOLTAGE**	LIST	LIST	PHASE/ HP	RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME*	WET PIT	DRY PIT
			PRICE	PRICE						ACCY.	ACCY.
150E-CB1	PE 45/4	208 or 230	\$6,889	\$6,889	6			369			
		460 or 600	\$5,971	\$5,971							
	PE 56/4	208 or 230	\$7,827	\$7,827	7.5			383			
		460 or 600	\$6,264	\$6,264							
	PE 75/4	208 or 230	\$8,088	\$8,088	10	3/1780		410			
		460 or 600	\$6,679	\$6,679							
	PE 90/4	208 or 230	\$8,368	\$8,368	12		1 vane CB plus	435	PE2	W 6.1	D 6.1
		460 or 600	\$6,934	\$6,934							
	PE 105/4	208 or 230	\$8,247	\$8,247	14			435			
		460 or 600	\$7,140	\$7,140							
	PE 35/6	208 or 230	\$7,320	\$7,320	4.7	3/1180		369			
		460 or 600	\$6,983	\$6,983							
150G-CP2	PE 90/6	208 or 230	\$15,297	N/A	12	3/1180	2 vane chopper	735	PE3	W 6.1	N/A
		460 or 600	\$13,603	N/A							
150M-CB2	PE 630/4	460 or 600	\$45,239	\$48,004	84			2247			
		460 or 600	\$50,041	\$52,806							
	PE 860/4	460 or 600	\$53,120	\$55,885	140	3/1780		2538			
		460 or 600	\$56,276	\$59,041							
	PE 1250/4	460 or 600	\$50,001	\$52,766	70	3/1180	2 vane CB***	2686	PE5	W 6.3	D 6.6
		460 or 600	\$53,079	\$55,844							
PE 630/6	460 or 600			84			2408				

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length on PE2, PE3, PE4 & PE5 is 49 Feet

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details

**For other voltages not listed, consult factory for pricing.

*** Indicates impeller can be trimmed.

Dry pit version of PE2 pumps include heat transfer fluid in the motor and drilled suction flange or dry pit type CB bottom plate

Dry pit version of PE3, PE4, and PE5 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Full monitoring system is optional on PE4 and PE5 motors.

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

6" XFP SERIES PUMPS CONT'D

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

MODELS	MOTOR	VOLTAGE**	LIST PRICE WET PIT	LIST PRICE DRY PIT	HP	PHASE/ RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME*	WET PIT ACCY. CODE	DRY PIT ACCY. CODE
	PE 75/4	208 or 230 460 or 600	\$8,088 \$6,679	\$8,088 \$6,679	10			410			
151E-CB2	PE 90/4	208 or 230 460 or 600	\$8,368 \$6,934	\$8,368 \$6,934	12	3/1780	2 vane CB ***	435	PE2	W 6.1	D 6.1
	PE 105/4	208 or 230 460 or 600	\$8,247 \$7,140	\$8,247 \$7,140	14			435			
	PE 35/6	208 or 230 460 or 600	\$7,320 \$6,983	\$7,320 \$6,983	4.7	3/1180		369	PE2	W 6.1	D 6.1
Note: The 151E pump is not recommended for use in unscreened wastewater with high fiber content											
	PE 130/4	230 460 or 600	\$14,211 \$13,210	\$15,001 \$13,999	17			734			
150G-CB1	PE 150/4	230 460 or 600	\$14,599 \$13,598	\$15,389 \$14,387	20	3/1780	1 vane CB Plus	750	PE3	W 6.2	D 6.7
	PE 185/4	230 460 or 600	\$15,259 \$14,258	\$16,049 \$15,047	25			765			
	PE 210/4	230 460 or 600	\$15,440 \$14,439	\$16,230 \$15,228	28			765			
150G-CB1	PE 110/6	230 460 or 600	\$13,961 \$13,961	\$14,750 \$14,750	15	3/1180	1 vane CB Plus	734	PE3	W 6.2	D 6.7
	PE 350/4	230 460 or 600	\$27,633 \$24,638	\$30,561 \$27,566	47			1213			
	PE 430/4	230 460 or 600	\$28,975 \$25,980	\$31,903 \$28,908	58	3/1780		1279	PE4	W 6.3	D 6.5
	PE 520/4	230 460 or 600	\$30,066 \$27,071	\$32,994 \$29,999	70			1323			
155J-CB2	PE 210/6	230 460 or 600	\$27,674 \$24,679	\$30,602 \$27,607	28		2 vane CB Plus***	1080			
	PE 250/6	230 460 or 600	\$28,718 \$25,723	\$31,646 \$28,651	33	3/1180		1147	PE4	W 6.3	D 6.5
	PE 350/6	230 460 or 600	\$30,879 \$27,884	\$33,807 \$30,812	47			1224			
	PE 430/6	230 460 or 600	\$32,317 \$29,322	\$35,245 \$32,250	58			1246			
155J-CB2	PE 630/4		\$39,461	\$42,226	84			1918			
	PE 860/4	460 or 600	\$44,263	\$47,028	115	3/1780	2 vane CB Plus***	2018	PE5	W 6.3	D 6.5
	PE 1040/4		\$47,342	\$50,107	139			2214			
	PE 1250/4		\$50,498	\$53,263	168			C/F			

Notes:

Models shown in RED are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length on PE2, PE3, PE4 & PE5 is 49 Feet

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details

**For other voltages not listed, consult factory for pricing.

***Indicates impeller can be trimmed.

Dry pit version of PE2 pumps include heat transfer fluid in the motor and drilled suction flange or dry pit type CB bottom plate

Dry pit version of PE3, PE4, and PE5 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Full monitoring system is optional on PE4 and PE5 motors.

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

6" XFP ACCESSORIES & OPTIONS

Motor Options

Motor Frame	Motor Cooling System (closed system) List Price	Cooling Jacket in Stainless Steel (1.4571, 316Ti) List Price	Longer Power Cable		
			Total Cable Length	230V List Price	460V/600V List Price
PE2	N/A	N/A	65 feet	\$480	\$394
			98 feet	\$1,431	\$1,021
PE3	See dry pit price	N/A	65 feet	\$896	\$580
			98 feet	\$2,871	\$2,613
Additional Power Cable Adder per 16 feet					
PE4	See Dry Pit Price	N/A	16 feet**	C/F	\$651
PE5 (motor sizes 430-630)	See Dry Pit Price	\$9,918	16 feet**	C/F	\$1,298
PE5 (motor sizes 860-1040)	See Dry Pit Price	\$9,918	16 feet**	C/F	\$2,081
PE5 (motor size 1250)	See Dry Pit Price	\$9,918	16 feet**	C/F	\$3,139

Motor Frame	Full Monitoring System (bearing thermals & 2 add'l seal probes) List Price	Full Monitoring System w/Bearing and Stator RTD's, 1 RTD in stator + 1 in each bearing location + 2 add's seal probes List Price	Full Monitoring System w/Bearing and Stator RTD's, 3 RTDs in stator + 1 in each bearing location + 2 add'l seal probes List Price	Standard Monitoring plus 1 Stator RTD List Price	Isolated Upper Bearing (recommended for PE5 pumps used on VFDs) List Price
PE2	N/A	N/A	N/A	N/A	N/A
PE3	N/A	N/A	N/A	C/F	N/A
PE4	\$988	\$3,701	\$6,078	\$948	N/A
PE5	\$988	\$3,701	\$6,078	\$948	\$862

Pump Wet End Options

Pump Model	Impeller in 329 Stainless Steel List Price	Wear Plate (CB System) in 329 Stainless Steel List Price	Wear Rings (Impeller & Casing) in Stainless Steel List Price	Hardened Hydraulics (cast iron only)**** List Price	Volute in Stainless Steel List Price
XFP 150E-CB1*	\$2,609	\$2,015	N/A	\$1,304	N/A
XFP 150J-CH2	\$7,863	N/A	\$3,491	N/A	C/F
XFP 151E-CB2*	N/A	N/A	N/A	\$1,304	N/A
XFP 150G-CB1*	C/F	C/F	N/A	C/F	N/A
XFP 155J-CB2	***\$8977 Includes SS Wear Plate		N/A	\$2,230	N/A
XFP 150M-CB2	***Consult Factory for SS Imp & Wear Plate		N/A	N/A	C/F

Note: Hydraulic performance of a stainless steel impeller may be slightly lower than equivalent cast iron impeller.

Paint & Other Options

Motor Frame	Two Part Epoxy (8 mils DFT) List Price	Two Part Epoxy (16 mils DFT on PE1-PE4, 14 mils DFT on PE5) List Price	Viton Primary Seal and O-rings List Price	Pump Lifting Hoop, Stainless Steel List Price	Drilled Suction Flange List Price
PE2	N/A	\$302	\$395	standard	standard
PE3	N/A	\$521	\$1,110	standard	standard
PE4	\$901	\$1,883	\$1,718	\$832	\$495
PE5	\$1,758	\$3,076	\$2,156	\$1,176	\$495

Notes:

Standard cable length for **PE2, PE3, PE4, and PE5** pumps is **49 feet**.

* Selected impeller sizes available in stainless steel. Consult Factory for specific sizes.

** Available optional lengths are up to **98 feet** in **16 feet** increments. Consult factory for longer lengths.

*** SS impeller and wear plate available as a set only, not individually.

****Hardening of bottom edge of impeller and wear plate surface only.

RTDs (type PT100) provide a signal for reading actual operating temperature. One display unit in control required per RTD to receive the signal.

Drilled suction flange is included on XFP PE2, and PE3 pumps. Drilled flange is optional on PE4, PE5 pumps, but is included with dry pit version.

Standard coating for all xfp pumps is two part Epoxy 4.7 mils DFT

N/A = not available or not applicable. C/F = consult factory

6" XFP INSTALLATION ACCESSORIES

W 6.1 Wet Pit Accessories			W 6.3 Wet Pit Accessories		
	Part No.	List Price		Part No.	List Price
GRA w/ Integral Elbow	62320655	\$1,140	GRA w/ Integral Elbow (Heavy Duty)	DPS92211F	\$2,116
GRA w/o Elbow	62320537	\$1,508	GRA w/ Integral Elbow, non-spark	DPS94211F	\$3,710
GRA w/ Integral Elbow, non-spark	62326035	\$1,527	Hardware Kit (pump to slide brkt.)	62306264	\$152
Hardware Kit (pump to slide brkt.)	62306250	\$137	Intermed. GR Brkt- 6" Disch Pipe	41686073	\$368
Discharge Elbow, 6X6	4059441Y-06	\$703	Intermed. GR Brkt- 8" Disch Pipe	41686074	\$280
Discharge Elbow, 6X8	4059443Y-07	\$1,633	Intermed. GR Brkt-10" Disch Pipe	41686075	\$299
Hardware Kit (disch. elbow to base)	C/F	\$105	SS Upper Guide Brkt, 2"	41686057	\$154
Intermed. GR Brkt- 6" Disch Pipe			Wet Pit Stand		
For 62320655 GRA	41686076	\$263	XFP 150J-CH2	41906012	\$1,011
For 62320537 GRA & 4059441Y-06 EL	V25-00089	\$263	XFP 150M-CB2	C/F	C/F
Intermed. GR Brkt -8" Disch Pipe			XFP 155J-CB2	41906051	\$1,182
For 62320655 GRA & 13706013 increaser	41686077	\$280	Hardware Kit (pump to wet stand)	C/F	\$34
For 62320537 GRA & 4059441Y-07 EL	V25-00088	\$280			
Intermed. GR Brkt-10" Disch Pipe		-	For ALL W 6 Wet Pit Assy	Part No.	List Price
For 62320655 GRA & 13706014 increaser	41686078	\$587	Eccentric Increaser 6"x 8"	13706013	\$797
SS Upper Guide Brkt, 2"	41686001	\$142	Eccentric Increaser 6"x 10"	13706014	\$1,950
Wet Pit Stand			Hardware Kit (increaser to base el.)	C/F	\$133
XFP 150E-CB1, 151E-CB2	61355019	\$364			
XFP150G-CP2	C/F	\$892			
W 6.2 Wet Pit Accessories					
	Part No.	List Price		Part No.	List Price
GRA w/ Integral Elbow	62320655	\$1,140			
GRA w/o Elbow	62320537	\$1,508			
GRA w/ Integral Elbow, non-spark	62326035	\$1,527			
Hardware Kit (pump to slide brkt.)	62306250	\$137			
Discharge Elbow, 6X6	4059441Y-06	\$703			
Discharge Elbow, 6X8	4059443Y-07	\$1,633			
Hardware Kit (disch. elbow to base)	C/F	\$105			
Intermed. GR Brkt- 6" Disch Pipe					
For 62320655 GRA	41686282	\$263			
For 62320537 GRA & 4059441Y-06 EL	V25-00089	\$263			
Intermed. GR Brkt -8" Disch Pipe					
For 62320655 GRA & 13706013 increaser	41686077	\$280			
For 62320537 GRA & 4059441Y-07 EL	V25-00088	\$280			
Intermed. GR Brkt-10" Disch Pipe					
For 62320655 GRA & 13706014 increaser	41686078	\$587			
SS Upper Guide Brkt, 2"	41686001	\$142			
Wet Pit Stand (XFP 150G)	61355025	\$892			

Notes:

Include price of applicable hardware kits on your order. See separate page for lifting chain assemblies

Dual guide rail version of the integral elbow assemblies shown in W6.3 are available at a **\$1,045** price adder.

Accessories for the **dual rail systems** are available at a **20%** price adder. Consult factory for part numbers.

Guide rail assemblies shown in W 6.1, W 6.2, and W 6.3 use 2" guide rail pipe.

Guide rail pipe is not included.

6" XFP INSTALLATION ACCESSORIES... CONT'D

D 6.1 Dry Pit Accessories***			D 6.5 Dry Pit Accessories***		
	Part No.	List Price		Part No.	List Price
Vertical Dry Pit Stand (use w/ 6" SR elbow only)*			Vertical Dry Pit Base**		
XFP 150E & 151E	41826091	\$1,149	XFP 155J-CB2	C/F	\$2,509
Hardware Kit (pump to dry stand)	C/F	\$15	Vertical Dry Pit Stand (for 8" elbow)		
Horizontal Dry Pit Mounting Kit			XFP 155J-CB2	41826175	C/F
XFP 150E & 151E	61825031	\$233	Hardware Kit (pump to dry stand)	C/F	\$35
Suction Elbow 6" with cleanout			Horizontal Dry Pit Mounting Kit		
Short Radius	40536091	\$1,534	XFP 155J-CB2	C/F	C/F
Long Radius	40536005	\$1,624	Suct. Elbow, 8" w/ cleanout	40536007	\$2,327
Suction Elbow 8" with cleanout			Suct. Elbow 10" w/ cleanout	40536002	\$5,262
Long Radius	40536006	\$3,527	Note: the 155J-CB2 pump has an 8" suction		
Hardware Kit (suc. elbow to pump)	C/F	\$119	Hardware Kit (suc. elbow to pump)	C/F	\$119
D 6.3 Dry Pit Accessories***			D 6.6 Dry Pit Accessories***		
	Part No.	List Price		Part No.	List Price
Vertical Dry Pit Base**			Vertical Dry Pit Base**		
XFP 150J-CH2	C/F	\$4,547	XFP 150M-CB2	C/F	\$4,222
Hardware Kit (pump to dry stand)	C/F	\$35	Hardware Kit (pump to dry stand)	C/F	\$35
Horizontal Dry Pit Mounting Kit			Horizontal Dry Pit Mounting Kit		
XFP 150J-CH2	C/F	C/F	XFP 150M-CB2	C/F	C/F
Horizontal Dry Pit Mounting Kit	C/F	\$2,614	Suction Elbow 6" w/ cleanout		
Suction Elbow 6" w/ cleanout			Long Radius	40536005	\$1,624
Long Radius	40536005	\$1,624	Suction Elbow 8" w/ cleanout		
Suction Elbow 8" w/ cleanout			Long Radius	40536006	\$3,527
Long Radius	40536006	\$3,527	Hardware Kit (suc. elbow to pump)	C/F	\$119
Hardware Kit (suc. elbow to pump)	C/F	\$119			
			D 6.7 Dry Pit Accessories***		
				Part No.	List Price
			Vertical Dry Pit Stand (use w/6" elbow only)	41826116	\$1,376
			Hardware Kit (pump to dry stand)	62306009	\$16
			Horizontal Dry Pit Mounting Kit	C/F	\$504
			Suction Elbow 6" w/ cleanout		
			Long Radius	40536005	\$1,624
			Suction Elbow 8" w/ cleanout		
			Long Radius	40536006	\$3,527
			Hardware Kit (suc. elbow to pump)	C/F	\$119

Notes:

Include price of applicable hardware kits on your order.

Consult factory for dry pit stands suitable for use with 6x8 increasing elbows and for custom stands for pump station retrofit jobs.

* Use with short radius suction elbow only. Consult factory for stands for use with long radius elbows

** Dry pit bases do not mount directly on the floor. They must be mounted on concrete pedestals.

Consult factory for special stands that can be mounted directly to the floor.

*** Dry pit version of pump required. Select from pump price list.

8" XFP SERIES PUMPS

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

MODELS	MOTOR	VOLTAGE**	LIST PRICE		HP	PHASE/ RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME*	WET PIT ACCY. CODE	DRY PIT ACCY. CODE
			WET PIT	DRY PIT							
200G-CB1	PE 90/6	230	\$15,110	\$15,899	12			805			
		460 or 600	\$13,926	\$14,715							
	PE 110/6	230	\$14,666	\$15,455	14.7	3/1180	1 vane CB plus	805	PE3	W 8.1	D 8.1
		460 or 600	\$14,666	\$15,455							
PE 130/6	230	\$15,230	\$16,019	17.4			827				
	460 or 600	\$15,230	\$16,019								
201G-CB2	PE 130/6	230	\$15,230	\$16,019	17.4			844	PE3		
		460 or 600	\$15,230	\$16,019							
	PE 160/6	230	\$15,954	\$16,743	21.4	3/1180	2 vane CB***	864	PE3	W 8.1	D 8.1
		460 or 600	\$15,954	\$16,743							
	PE 200/6	230	\$18,936	\$19,725	27			906	PE3.5		
460 or 600		\$16,712	\$17,501								
PE 120/8	230	\$17,016	\$17,806	16.1	3/880		857	PE3			
	460 or 600	\$16,015	\$16,804								
200J-CH2	PE 430/4	230	\$30,332	\$33,356	58			1263			
		460 or 600	\$27,337	\$30,361							
	PE 520/4	230	\$31,423	\$34,447	70	3/1780		1308			
		460 or 600	\$28,428	\$31,452							
	PE 210/6	230	\$28,713	\$31,737	28		2 vane closed***	1131	PE4	W 8.2	D 8.2
		460 or 600	\$25,718	\$28,742							
	PE 250/6	230	\$29,757	\$32,781	33			1197			
		460 or 600	\$26,762	\$29,786							
PE 350/6	230	\$31,918	\$34,942	47	3/1180		1274				
	460 or 600	\$28,923	\$31,947								
PE 430/6	230	\$33,356	\$36,380	58			1297				
	460 or 600	\$30,361	\$33,385								
200J-CH2	PE 630/4		\$40,195	\$43,056	84			1938			
			\$44,997	\$47,858							
	PE 860/4		\$48,076	\$50,937	115	3/1780	2 vane closed***	2031	PE5	W 8.2	D 8.2
		460 or 600	\$51,232	\$54,093							
	PE 1040/4		\$51,232	\$54,093	139			2229			
PE 1250/4		\$51,232	\$54,093	168			2377				
PE 520/6		\$38,544	\$41,405	70	3/1180		C/F				
205J-CB2	PE 630/4		\$36,138	\$38,903	84		2 vane CB	2084	PE5	W 8.2	D 8.4
			\$40,940	\$43,705							
	PE 860/4	460 or 600	\$44,019	\$46,784	115	3/1780	Plus***	2172			
			\$44,019	\$46,784							
PE 1040/4		\$44,019	\$46,784	139			2370				
PE 1250/4		\$47,175	\$49,940	168			2525				

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length on PE3, PE3.5, PE4 & PE5 is 49 Feet.

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details.

**For other voltages not listed, consult factory for pricing.

*** Indicates impeller can be trimmed.

Dry pit version of PE3, PE3.5, PE4, and PE5 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Full monitoring system is optional on PE4 and PE5 motors.

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

8" XFP SERIES PUMPS CONT'D

Note: The "CB" or "CB Plus" type impellers are preferred over the "Closed" impellers for unscreened wastewater applications

MODELS	MOTOR	VOLTAGE**	LIST PRICE		PHASE/ HP	RPM	IMPELLER	WGT. (lbs.)	MOTOR FRAME*	WET PIT	DRY PIT
			WET PIT	DRY PIT						ACCY. CODE	ACCY. CODE
206J-CB2	PE 210/6	230	\$25,926	\$28,854	28	3/1180	2 vane CB Plus***	1235	PE4	W 8.2	D 8.4
		460 or 600	\$22,931	\$25,859							
	PE 250/6	230	\$26,970	\$29,898	33						
		460 or 600	\$23,975	\$26,903							
	PE 350/6	230	\$29,131	\$32,059	47						
		460 or 600	\$26,136	\$29,064							
PE 430/6	230	\$30,219	\$33,147	58							
460 or 600	\$27,224	\$30,152									
200M-CH2	PE 1500/4		\$86,471	\$86,471	201			3969			
	PE 1850/4	460 or 600	\$85,258	\$85,258	248	3/1780	2 vane closed***	4212	PE6	W 8.2	D 8.3
	PE 2200/4		\$110,631	\$110,631	295			4994			
	PE 2800/4		\$120,937	\$120,937	375			5215			
PE 520/6	\$44,674		\$49,608	70	2262						
200M-CH2	PE 630/6	460 or 600	\$47,752	\$52,686	84	3/1180	2 vane closed***	2401	PE5	W 8.2	D 8.3
	PE 860/6		\$53,323	\$58,257	115			2584			

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

All XFP pumps are available in **EXPLOSION PROOF** construction only.

Standard cable length on PE4 & PE5 is 49 Feet. Standard cable length on PE6 is 32 feet Other lengths available upon request.

* A PC441 monitoring system is required for each PE5 and PE6 pump. The PC441 is NOT included in the pump LIST prices. C/F for details

**For other voltages not listed, consult factory for pricing.

*** Indicates impeller can be trimmed.

Dry pit version of PE4, PE5, and PE6 pumps include closed loop cooling system and drilled suction flange or dry pit type CB bottom plate

Pumps with PE6 motors include closed loop cooling system on both dry pit and wet pit versions.

Full monitoring system is optional on PE4 and PE5 motors and standard on PE6 motors.

Pump weight includes guide rail system sliding bracket, but not optional cooling jacket on PE4 & PE5

8" XFP ACCESSORIES & OPTIONS

Motor Options

Motor Frame	Motor Cooling System (closed system) List Price	Cooling Jacket in Stainless Steel (1.4571, 316Ti) N/A	Longer Power Cable		
			Total Cable Length	230V	List Price 460V/600V
PE3/3.5	See dry pit price	N/A	65 feet	\$895	\$581
			98 feet	\$2,871	\$2,612
Additional Power Cable Adder per 16 feet					
PE4	See Dry Pit Price	N/A	16 feet**	C/F	\$651
PE5 (motor sizes 430-630)	See Dry Pit Price	\$9,537	16 feet**	C/F	\$1,297
PE5 (motor sizes 860-1040)	See Dry Pit Price	\$9,537	16 feet**	C/F	\$2,082
PE5 (motor size 1250)	See Dry Pit Price	\$9,537	16 feet**	N/A	\$3,138
PE6	Standard	\$9,537	16 feet**	N/A	C/F

Motor Frame	Full Monitoring System (bearing thermals & 2 add'l seal probes) List Price	Full Monitoring System w/Bearing and Stator RTD's, 1 RTD in stator + 1 in each bearing location + 2 add'l seal probes (in PE4&5) List Price	Full Monitoring System w/Bearing and Stator RTD's, 3 RTDs in stator + 1 in each bearing location + 2 add'l seal probes List Price	Standard Monitoring plus 1 Stator RTD List Price	Isolated Upper Bearing (recommended for PE5 pumps used on VFDs) List Price
PE3/3.5	N/A	N/A	N/A	C/F	N/A
PE4	\$988	\$3,701	\$6,078	\$948	N/A
PE5	\$988	\$3,701	\$6,078	\$948	\$862
PE6	Standard	\$1,331	C/F	N/A	Standard

Pump Wet End Options

Pump Model	Impeller in 329 Stainless Steel List Price	Wear Plate (CB System) in 329 Stainless Steel List Price	Wear Rings (impeller and casing) in Stainless Steel List Price	Hardened Hydraulics (cast iron only)**** List Price	Volute in Stainless Steel List Price
XFP 200G-CB1*	\$4,659	\$5,650	N/A	\$1,438	C/F
XFP 201G-CB2	\$4,162	\$5,650	N/A	\$1,438	C/F
XFP 200J-CH2	\$7,400	N/A	\$3,638	N/A	\$12,792
XFP 205J-CB2	***\$11101 Includes SS Wear Plate		N/A	\$2,230	\$13,153
XFP 206J-CB2	***\$11101 Includes SS Wear Plate		N/A	\$2,230	C/F
XFP 200M-CH2	\$12,785	N/A	\$3,779	N/A	\$16,803

Note: Hydraulic performance of a stainless steel impeller may be slightly lower than equivalent cast iron impeller.

Paint & Other Options

Motor Frame	Two Part Epoxy (16 mils DFT on PE1-PE3, 14 mils DFT on PE5 & PE4)		Two Part Epoxy (8 mils DFT)		Viton Primary Seal and O-rings List Price	Pump Lifting Hoop, Stainless Steel List Price	Drilled Suction Flange List Price
Motor Frame	Part No.	List Price	Part No.	List Price	List Price	List Price	List Price
PE3/3.5	-	N/A	85026062	\$521	\$1,109	standard	standard
PE4	C/F	\$901	85026063	\$1,884	\$1,718	\$832	\$549
PE5	C/F	\$1,757	C/F	\$3,077	\$2,157	\$1,176	\$549
PE6	C/F	\$2,190	C/F	\$3,699	\$2,973	\$1,949	\$549

Notes:

Standard cable length for PE3, PE3.5, PE4, and PE5 pumps is 49 feet. Standard cable length on PE6 is 32 feet.

* Selected impeller sizes available in stainless steel. Consult Factory for specific sizes.

** Available optional lengths are up to 98 feet in 16 feet increments. Consult factory for longer lengths.

*** SS impeller and wear plate available as a set only, not individually.

****Hardening of bottom edge of impeller and wear plate surface only.

RTDs (type PT100) provide a signal for reading actual operating temperature. One display unit in control required per RTD to receive the signal.

Drilled suction flange is included on XFP PE3 pumps. Drilled flange is optional on PE4, PE5 and PE6 pumps, but is included with dry pit version.

Standard coating for all XFP pumps is two part Epoxy 4.7 mils DFT

N/A = not available or not applicable. C/F = consult factory

8" XFP INSTALLATION ACCESSORIES

W 8.1 Wet Pit Accessories	Part No.	List Price
GRA w/ Integral Elbow, standard	62320658	\$2,064
GRA w/ Integral Elbow, non-spark	62326043	\$2,541
Hardware Kit (pump to slide brkt.)	62306265	\$224
Inter. GR Brkt-8" Disch Pipe	41686058	\$280
Inter. GR Brkt-10" Disch Pipe	41686059	\$280
Inter. GR Brkt-12" Disch Pipe	41686064	\$324
SS Upper Guide Brkt, 2"	41686001	\$142
Wet Pit Stand (XFP 200G & 201G)	41906025	\$892
Hardware Kit (pump to wet stand)	62306223	\$56

W 8.2 Wet Pit Accessories	Part No.	List Price
GRA w/ Integral Elbow, standard	DPT92211F	\$2,841
GRA w/ Integral Elbow, non-spark	DPT94211F	\$3,600
Hardware Kit (pump to slide brkt.)	62306307	\$224
Inter. GR Brkt- 8" Disch Pipe	41686060	\$280
Inter. GR Brkt-10" Disch Pipe	41686061	\$394
Inter. GR Brkt-12" Disch Pipe	41686062	\$409
SS Upper Guide Brkt, 2"	41686057	\$154
Wet Pit Stand		
XFP 200J-CH2	41906014	\$810
XFP 200M-CH2	C/F	\$810
XFP 205J-CB2, XFP 206J-CB2	C/F	\$810
Hardware Kit (pump to wet stand)	62306228	\$47

For ALL W 8 Wet Pit Assy	Part No.	List Price
Eccentric Increaser 8"x 10"	13706015	\$1,358
Eccentric Increaser 8"x 12"	13706016	\$1,993
Hardware Kit (increaser to base el.)	C/F	\$173

D 8.1 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Stand (use w/ 8" elbow only)*	41826117	\$1,375
Vertical Dry Pit Stand (use w/ 10" elbow only)*	41826121	\$1,513
Hardware Kit (pump to dry stand)	62306223	\$34
Horizontal Dry Pit Mounting Kit	61825007	\$1,931

D 8.2 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Base***		
XFP 200J-CH2	DS6111111	\$5,226
Hardware Kit (pump to dry stand)	C/F	\$34
Horizontal Dry Pit Mounting Kit PE4		\$2,443
Horizontal Dry Pit Mounting Kit PE5	61822514	\$1,810

D 8.3 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Base***	DS7111111	\$6,264
Hardware Kit (pump to dry stand)	C/F	\$34
Horizontal Dry Pit Mounting Kit PE5	61822508	\$1,810
Horizontal Dry Pit Mounting Kit PE6	61822523	\$3,771

D 8.4 Dry Pit Accessories**	Part No.	List Price
Vertical Dry Pit Base***		
XFP 200J-CH2	DS6111111	\$5,226
XFP 205J-CB2	C/F	\$4,586
XFP 206J-CB2	C/F	\$1,870
Hardware Kit (pump to dry stand)	C/F	\$34
Horizontal Dry Pit Mounting Kit		
XFP 205J-CB2 PE5	61822522	\$1,810
XFP 206J-CB2 PE4	61822502	\$1,931

For ALL W 8 Dry Pit Assy	Part No.	List Price
Suct. Elbow, 8" w/ cleanout	40536007	\$2,328
Suct. Elbow 10" w/ cleanout	40536002	\$5,262
Hardware Kit (suc. elbow to pump)	62306263	\$112
Hardware Kit (suc. elbow to pump)	62306273	\$112

Notes:

Include price of applicable hardware kits on your order. See separate page for lifting chain assemblies

Dual guide rail version of the integral elbow assemblies shown in W8.2 are available at a \$1045 price adder.

Accessories for the dual rail systems are available at a 20% price adder. Consult factory for part numbers.

Guide rail assemblies shown in W8.1, and W8.2 use 2" guide rail pipe.

Guide rail pipe is not included.

Consult factory for custom dry pit stands for pump station retrofit jobs.

** Dry pit version of pump required. Select from pump price list.

*** Dry pit bases do not mount directly on the floor. They must be mounted on concrete pedestals.

Consult factory for special stands that can be mounted directly to the floor.

XFP/AFP TESTING OPTIONS

Certified Non-Witnessed Hydraulic Test to HI 11.6-2012 Standard ****

Motor Frame	<i>Grade 1B default level for pumps over 134hp</i>		<i>Grade 1E optional level</i>		<i>Grade 1U optional level</i>		<i>Grade 2B default level for 13.5-134hp pumps***</i>	
	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
PE1, PE2	C/F	C/F	C/F	C/F	310190007002	\$1,090	C/F	C/F
PE3	C/F	C/F	C/F	C/F	310190007002	\$1,090	310190007005	\$428

Motor Frame	<i>Grade 2U optional level</i>		<i>Grade 3B optional level</i>		<i>Small Pumps ≤ 10 kW (13.4 HP)</i>		<i>Witnessing of Any Test, Adder</i>	
	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
PE1, PE2	C/F	C/F	C/F	C/F	310190007001	\$428	C/F	\$1,120
PE3	C/F	C/F	C/F	C/F	C/F	C/F	C/F	\$1,120

*** For pumps below 13.5 hp, use the "Small Pumps" test grade.

Table 1, 11.6-2012 Acceptance Criteria

Parameter	Acceptance Grades based on application and power as shown in table 2						Small pumps (below 13.4 hp, 10kW)
	1B	1E	1U	2B	2U	3B	
Flow	+/-5%	+/-5%	+10% -0%	+/-8%	+16% -0%	+/-9%	+/-10%
Total Head	+/-3%	+/-3%	+6% -0%	+/-5%	+10 -0%	+/-7%	+/-8%
Power	+4%	+4%	+10%	+8%	+16%	+9%	*
Efficiency	-3%	-0%	-0%	-5%	-5%	-7%	**

* Calculated using a formula shown in the standard but generally in the range of -9% to -14% depending on pump power

** Calculated using a formula shown in the standard but generally in the range of +11% to +15% depending on actual pump efficiency

Table 2, Default Grades for Common Submersible Pump Applications

Application	Medium Sized Pumps (13.4 to 134 hp)	Large Pumps (above 134 hp)
Clean Water	2B	1B
Wastewater	2B	1B
Building Trades	2B	1B
Dewatering	3B	3B
Storm Water	2B	2B
General Industrial	3B	2B

The complete versions of tables 1 and 2 are available in the HI Standards 11.6-2012 and 14.6-2011.

Notes:

Consult factory for tests not listed above.

Pumps stocked in the SC warehouse are guaranteed to 11.6-2012 default level. For pumps guaranteed to other levels, add appropriate test price to pump price and consult factory for lead time.

These tests are applicable for XFP and AFP pumps only. Consult factory for tests and acceptance grades for other products

**** Although many P/N's for testing are the same, the prices vary based on motor frame size and testing grade level.

XFP/AFP TESTING OPTIONS

Other Tests:

Hydrostatic Testing

Discharge Size	Part No.	List Price
3" Pump	85016021	\$1,063
4" Pump	85016022	\$1,063
6" Pump	85016023	\$1,133
8" Pump	85016024	\$1,490



Motor Frame	<i>Works Test Certificate (formerly PT10,000 test)</i>		<i>Vibration test, when ordered with certified performance test</i>		<i>Hipot, Insulation, or Surge Test</i>		<i>Certificate of balance, shaft or impeller (not applicable to stock pumps)</i>	
	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
PE1, PE2	85016012	\$415	85016114	\$311	C/F	\$292	C/F	\$177
PE3	85016013	\$415	85016115	\$311	C/F	\$292	C/F	\$177
PE4	85016014	\$597	85016116	\$311	C/F	\$292	C/F	\$239

Notes:

Consult factory for lead time adder for tests listed above.

Consult factory for pricing on any tests not listed above.

These tests are applicable for XFP and AFP pumps only. Consult factory for tests and acceptance grades for other products

BULK CHAIN, WIRE ROPE, CABLE GRIPS & FITTINGS

Galvanized Chain

Size	Max Working Load, Lb.	Part Number	List Price/foot	Size	Max Working Load, Lb.	Part Number	List Price/foot
7/32	1050	14816014	\$2.53	1/4	725	14816000	\$20
9/32	1425	14816015	\$5.06	5/16	1100	14816002	\$30
3/8	2525	14816016	\$10.12	3/8	1500	14816004	\$46
1/2	4478	14816017	\$19	1/2	2300	14816006	\$61
				5/8	4000	14816008	\$73

Stainless Steel Chain

Alloy Steel Coupling Links

7/32	2100	14806044		7/32		14806035	\$57
9/32	3500	14806045	\$16	9/32		14806036	\$67
3/8	7100	14806046	\$20	3/8		14806037	\$202
1/2	12000	14806047	\$28	1/2		14806038	\$280

Stainless Steel Coupling Links

Galvanized Steel Shackles

3/16		14806083	\$2.53	3/16		14806001	\$6.32
1/4		14806084	\$3.79	1/4		14806002	\$9
5/16		14806085	\$3.79	5/16		14806003	\$13
3/8		14806086	\$5.06	3/8		14806004	\$28
7/16		14806087	\$6.32	7/16		14806005	\$56
1/2		14806088	\$7.59	1/2		14806006	\$37
				3/4		14806008	\$235

Stainless Steel Shackles

Alloy Steel Grab Links

9/32	3250	14806053	\$52	3/16	990	14806014	\$6.32
3/8	6600	14806054	\$224	1/4	1430	14806015	\$7.59
1/2	11200	14806055	\$300	9/32	1985	14806016	\$11
				3/8	3085	14806018	\$22
				1/2	5510	14806020	\$24

Stainless Steel Quick Links

Stainless Steel Wire Rope

3/16	617	14816032	\$2.53	3/16		14806064	\$1.26
1/4	1067	14816034	\$2.53	1/4		14806065	\$1.26
3/8	2000	14816038	\$10.12	3/8		14806068	\$2.53
1/2	3800	14816040	\$8.85	1/2		14806069	\$3.79

Stainless Steel Thimbles (for forming end loop)

Stainless Steel Wire Rope Clamps

				Cable Diameter	Part Number	
3/16		14806073	\$5.06		13036009	\$46
1/4		14806074	\$8.85	0.29-0.37"	13036004	\$71
3/8		14806075	\$22	0.35-0.44"	13036010	\$82
1/2		14806076	\$16	0.46-0.56"	13036003	\$87
				0.50-0.62"	13036002	\$104
				0.63-0.74"	13036001	\$111
				0.75-0.99"	13036005	\$126
				1.00-1.24"	13036006	\$143
				1.25-1.49"	13036007	\$157
				1.50-1.74"	13036008	\$212
				1.75-1.99"		

Stainless Steel Cable Support Grips

Notes:

Other chain and wire rope components available. Consult factory.
 Stainless steel is grade 304. Grade 316 is also available. Consult factory.
Chain and fittings ordered from this page will be shipped loose.
See "Lifting Chain Assemblies" page for complete assemblies.

LIFTING CHAIN & WIRE ROPE ASSEMBLIES

Series / Motor Frame Size	Total Length (FT)	Galvanized Chain Assembly		Galvanized Grab Link Assembly *		SS Chain Assembly		SS Grab Link Assembly *		SS Wire Rope Assembly	
		Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price	Part No.	List Price
XFP PE1 - PE2, AS, Piranha, & Scavenger Max. Weight Limit: Chain & Grab Link: 1200 lbs. SS Wire Rope: 1260 lbs.	5	64816000	\$72	N/A	-	64826000	\$145	N/A	-	64836000	\$184
	10	64816001	\$89	64846000	\$158	64826001	\$220	64856000	\$231	64836001	\$201
	15	64816002	\$110	64846001	\$171	64826002	\$295	64856001	\$236	64836002	\$219
	20	64816003	\$129	64846002	\$167	64826003	\$370	64856002	\$241	64836003	\$236
	25	64816004	\$147	64846003	\$171	64826004	\$446	64856003	\$246	64836004	\$260
	30	64816005	\$165	64846004	\$176	64826005	\$520	64856004	\$251	64836005	\$271
	35	64816006	\$184	64846005	\$180	64826006	\$595	64856005	\$257	64836006	\$288
	40	64816007	\$202	64846006	\$184	64826007	\$671	64856006	\$262	64836007	\$306
	45	64816008	\$221	64846007	\$189	64826008	\$746	64856007	\$267	64836008	\$323
	50	64816009	\$239	64846008	\$193	64826009	\$821	64856008	\$272	64836009	\$340
XFP PE3 Max. Weight Limit: Galv. Chain & Grab Link: 1900 lbs. SS Chain & Grab Link: 2365 lbs. SS Wire Rope: 1845 lbs.	5	64816010	\$74	N/A	-	64826010	\$173	N/A	-	64836010	\$201
	10	64816011	\$97	64846009	\$159	64826011	\$286	64856009	\$210	64836011	\$228
	15	64816012	\$122	64846010	\$177	64826012	\$399	64856010	\$216	64836012	\$245
	20	64816013	\$146	64846011	\$195	64826013	\$511	64856011	\$221	64836013	\$263
	25	64816014	\$171	64846012	\$213	64826014	\$624	64856012	\$224	64836014	\$280
	30	64816015	\$195	64846013	\$235	64826015	\$737	64856013	\$233	64836015	\$297
	35	64816016	\$220	64846014	\$253	64826016	\$850	64856014	\$238	64836016	\$314
	40	64816017	\$245	64846015	\$278	64826017	\$963	64856015	\$244	64836017	\$332
	45	64816018	\$269	64846016	\$296	64826018	\$1,076	64856016	\$249	64836018	\$349
	50	64816019	\$294	64846017	\$314	64826019	\$1,188	64856017	\$255	64836019	\$366
XFP PE4 Max. Weight Limit: Galv. Chain & Grab Link: 4500 lbs. SS Chain & Grab Link: 5500 lbs. SS Wire Rope: 4610 lbs.	5	64816020	\$168	N/A	-	64826020	\$423	N/A	-	64836020	\$818
	10	64816021	\$239	64846018	\$234	64826021	\$726	64856018	\$422	64836021	\$836
	15	64816022	\$310	64846019	\$232	64826022	\$1,022	64856019	\$427	64836022	\$856
	20	64816023	\$381	64846020	\$237	64826023	\$1,330	64856020	\$433	64836023	\$874
	25	64816024	\$452	64846021	\$241	64826024	\$1,633	64856021	\$438	64836024	\$891
	30	64816025	\$523	64846022	\$246	64826025	\$1,935	64856022	\$444	64836025	\$910
	35	64816026	\$594	64846023	\$250	64826026	\$2,237	64856023	\$449	64836026	\$929
	40	64816027	\$665	64846024	\$255	64826027	\$2,540	64856024	\$455	64836027	947.16
	45	64816028	\$736	64846025	\$259	64826028	\$2,842	64856025	\$461	64836028	\$966
	50	64816029	\$807	64846026	\$263	64826029	\$3,145	64856026	\$466	64836029	\$984

Notes:

* Grab link assemblies include the specified length of AISI 316 stainless steel wire rope as the grab link guide line.

Stainless steel assemblies are AISI grade 316.

Assemblies include all components required to attach to pump.

Consult factory for lengths over 50 feet, materials not shown, for M8 - M9 motors, and other applications.

XFP/AFP Guide Rail Assembly Components

Use this page to select spare profile gaskets and pump sliding brackets to ship with your pump order.

	Guide Rail Assembly	Profile Gasket	Gasket List Price	Pump Sliding Bracket	Bracket List Price
3"	62320649	43070362	\$48	31420675	\$227
	62320517	43070516	\$48	30006M	\$207
	62326032	43070362	\$48	41426089	CF
	4059130-22	43070516	\$48	4059128-03	CF
4"	62320652	43070363	\$48	31420668	\$461
	62320513	43070518	\$53	4142515M	\$169
	62326034	43070363	\$48	41426090	CF
	4059130-1	43070518	\$53	4059128-04M	CF
	DPR32211_*	11120562	\$13	61420944	\$347
	DPR34211_*	11120562	\$13	61420964	\$347
6"	62320655	43070364	\$135	31420677	\$286
	62320537	43070519	\$135	31420535	\$407
	62326035	43070364	\$135	41426091	CF
	DPS92211_*	11120563	\$19	61420945	CF
	DPS942111	11120563	\$19	61420965	CF
8"	62320658	43070423	\$73	31420678	\$1,187
	6232604_*	43070423	\$73	41426092	CF
	DPT92211_*	11120564	\$21	61420946	CF
	DPT94211_*	11120564	\$21	61420966	CF

Notes:

CF = Consult Factory

If the GRA part number is unknown, see the GRA catalog to assist in identifying the GRA.

This chart is not to be used for GRA selection, see the Pump Price List to select the GRA based upon pump model.

* The last alphanumeric value (e.g. 1, A, F, etc.) of the GRA P/N does not effect the corresponding gasket or bracket P/N's.

AS-Piranha-Scavenger Guide Rail Assembly Components

Use this page to select spare profile gaskets and pump sliding brackets to ship with your pump order.

AS Guide Rail Assembly

Guide Rail Assembly	Profile Gasket	List Price	Pump Bracket	List Price
62320649	43070362	\$48	31420675	\$227
62320560	43070182	\$20	CF	CF

Piranha Guide Rail Assembly

Guide Rail Assembly	Profile Gasket	Gasket List Price (each)	Pump Bracket	List Price	O-Ring	List Price
62320536	43070179*	\$49	31420551	\$167	CF	CF
62320674	43070179*	\$49	31420792	\$167	CF	CF
62320501	30011	\$13	30003	\$144	CF	CF
4059130-23	30011	\$13	CF	CF	CF	CF
62325007	43070179*	\$49	31420792	\$167	CF	CF
62326013	43070179*	\$49	31420551	\$167	CF	CF
62320018	30017	\$19	30034	\$181	CF	CF
4059130-21	30017	\$19	CF	CF	CF	CF
62320661	43070565	\$7	31420671	\$276	11120828	\$11

Scavenger Guide Rail Assembly

Guide Rail Assembly	Profile Gasket	List Price	Pump Bracket	List Price
62320674	43070179*	\$49	31420792	\$167
62320501	30011	\$13	30003	\$144
62320536	43070179*	\$49	31420551	\$167
62327989	43087983	\$118	31427956	\$266
62327988	43087983	\$118	31427954	\$267
62320649	43070362	\$48	31420675	\$227
62320652	43070363	\$48	31420668	\$461

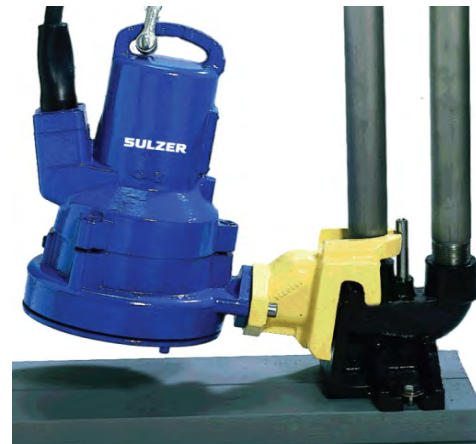
Notes:

* Quantity of two is required per Pump Sliding Bracket

CF = Consult Factory

If the GRA part number is unknown, see the GRA catalog to assist in identifying the GRA.

This chart is not to be used for GRA selection, see the Pump Price List to select the GRA based upon pump model.



COMPETITOR ADAPTERS ******Adapter Brackets ---REFER TO NOTES AT THE BOTTOM OF THE PAGE---**

NOMINAL ADAPTER DISCHARGE SIZE ***	RAIL SIZE x QTY	MATERIAL	HARDWARE KIT **	PART NO.	LIST PRICE
<i>XFP to Flygt Guide Rail System Adapters *</i>					
DN80 (3")	2" x 2	Cast Iron	Included	62665303	\$677
DN80 (3") x DN100 (4")	2" x 2	Cast Iron	62306221	11417	\$704
DN100 (4")	2" x 2	Cast Iron	Included	62665304	\$699
DN150 (6")	2" x 2	Cast Iron	Included	62665305	\$449
DN150 (6")	2" x 2	Steel	62306242	41426059	\$2,284
DN150 (6")	2" x 2	Steel	62306242	41426060	\$2,284
DN150 (6")	2" x 2	Steel	62306242	41426065	\$2,284
DN150 (6")	3" x 2	Steel	62306242	41426061	\$2,127
DN150 (6")	3" x 2	Steel	62306242	41426062	\$2,127
DN150 (6")	3" x 2	Steel	62306242	41426068	\$2,127
DN200 (8")	2" x 2	Cast Iron	Included	62665306	\$1,819
DN200 (8")	2" x 2	Steel	62306244	41426063	\$2,346
DN200 (8")	3" x 2	Steel	62306244	41426050	\$2,877
DN200 (8")	3" x 2	Steel	62306244	41426063	\$2,346
DN200 (8")	3" x 2	Steel	62306244	41426064	\$2,346
DN200 (8")	3" x 2	Steel	62306244	41426067	\$2,346

S Series Piranha to Flygt Guide Rail System Adapters

DN32 (1.25")	3/4" x 2	Cast Iron	Included	62665121	\$439
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S Series Piranha to KSB Guide Cable System Adapters

DN32 (1.25")	N/A	Cast Iron	Included	62665153	\$750
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Hardware Kits

PART NO.	LIST PRICE
62306139	\$166
62306221	\$201
62306242	\$109
62306243	\$360
62306244	\$110
62306245	\$205

Notes:

Brackets shown in **RED** are normally stocked. Consult factory for current inventory status.

* Consult the Flygt Retrofit Bracket Guide (Document #DS-Z03-012) found within the ABS to Flygt Retrofit Adapter Bracket Guide (Document # DS-Z05-001) for proper bracket selection.

** When a hardware kit Part No. is listed, hardware does not come with the bracket and must be ordered separately.

*** Actual drilling patterns are based on the metric measurement; inch sizing is for comparative basis only.

**** Always add monitoring relays/protection when replacing competitor products. Refer to the "SEALMINDERS and THERMAL MONITORING RELAYS" page in the "Controls & Electrical Accessories" section.

CHECK VALVES, TURBOFLUSH VALVES

PART NO.	NOMINAL SIZE (inches)	WEIGHT (lbs.)	MATERIAL	LIST PRICE
<i>Ball Check Valves Type 208 (NPT)</i>				
61400529	1 1/4	4.4	Cast Iron	\$284
61400530	1 1/2	C/F	Cast Iron	\$353
61400531	2	9	Cast Iron	\$300
<i>Ball Check Valves Type 408 (Flanged)</i>				
61400523	DN 80****	38	Cast Iron	\$470
61400524	4	56	Cast Iron	\$941
61400541	6	104	Cast Iron	\$1,159

Notes:

Larger sizes available upon request.

Turboflush Valves

ITEM*	SIZE	PART NO.	LIST PRICE
Valve w/ 10m air hose	2"	61400566	\$1,762
Valve w/ 20m air hose	2"	61400567	\$1,792
Intermediate clamping piece	3"	61740020	\$1,254
Intermediate clamping piece	4"	61740019	\$1,362
Intermediate clamping piece	6"	61740021	\$980
Intermediate clamping piece	8"	61745000	\$980
Control unit w/ enclosure**	115/1/60***	V45-00173	\$1,989
Control unit, chassis mount**	115/1/60***	V45-00217	\$1,700

Notes:

*Select one valve, one clamping piece and one control unit for a complete assembly.

**Control unit does not include pump starters or controls. Consult Factory for complete panels including pump controls.

***Consult Factory for alternate control voltages.

**** Value must be rotated 22.5° to line up with 3" ANSI flanges. Verify adequate room for rotation.

AS SERIES EXPLOSION PROOF PUMPS

	EXPLOSION PROOF	PART NUMBER	HP	VOLT	PHASE/ RPM	IMPELLER	DISCH. SIZE	SOLID SIZE	WGT. (lbs.)	MOTOR FRAME
0530 S16/2W	\$2,487	06085689	2.1	208	1/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S16/2W	\$2,487	06085602	2.1	230	1/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S16/2D	\$2,487	06085690	2.1	208	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S16/2D	\$2,487	06085600	2.1	230	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S16/2D	\$2,487	06085600	2.1	460	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S16/2D	\$2,487	06085623	2.1	575	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2W	\$2,590	C/F	2.4	208	1/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2W	\$2,590	06085604	2.4	230	1/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2D	\$2,522	06085692	2.4	208	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2D	\$2,522	06085603	2.4	230	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2D	\$2,522	06085408	2.4	460	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S18/2D	\$2,522	06086451	2.4	575	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S30/2D	\$2,731	06085831	4	208	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S30/2D	\$2,731	06085803	4	230	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S30/2D	\$2,731	06085802	4	460	3/3450	vortex	2"NPT	1 5/8"	75	S1
0530 S30/2D	\$2,731	06086458	4	575	3/3450	vortex	2"NPT	1 5/8"	75	S1
0630 S10/4W	\$2,522	06086799	1.3	208	1/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S10/4W	\$2,522	06085605	1.3	230	1/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S10/4D	\$2,522	06085654	1.3	208	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S10/4D	\$2,522	06087128	1.3	230	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S10/4D	\$2,522	06085653	1.3	460	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S10/4D	\$2,522	06087151	1.3	575	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S16/4D	\$2,417	06085647	2.1	208	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S16/4D	\$2,417	06085606	2.1	230	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S16/4D	\$2,417	06085607	2.1	460	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S16/4D	\$2,417	06087105	2.1	575	3/1750	vortex	2 1/2"	2 3/8"	82	S1
0630 S25/4D	\$3,177	C/F	3.4	208	3/1750	vortex	2 1/2"	2 3/8"	88	S2
0630 S25/4D	\$3,177	06085608	3.4	230	3/1750	vortex	2 1/2"	2 3/8"	88	S2
0630 S25/4D	\$3,177	06085609	3.4	460	3/1750	vortex	2 1/2"	2 3/8"	88	S2
0630 S25/4D	\$3,177	06087152	3.4	575	3/1750	vortex	2 1/2"	2 3/8"	88	S2
0631 S16/2W	\$2,767	06087291	2.1	208	1/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S16/2W	\$2,767	C/F	2.1	230	1/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S16/2D	\$2,662	06087433	2.1	208	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S16/2D	\$2,662	C/F	2.1	230	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S16/2D	\$2,662	06087426	2.1	460	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S16/2D	\$2,662	C/F	2.1	575	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2W	\$2,453	C/F	2.4	208	1/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2W	\$2,453	06087425	2.4	230	1/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2D	\$2,453	C/F	2.4	208	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2D	\$2,453	06087507	2.4	230	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2D	\$2,453	C/F	2.4	460	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S18/2D	\$2,453	06087511	2.4	575	3/3450	vortex	2 1/2"	1 5/8"	84	S2
0631 S35/2D	\$3,292	C/F	4.7	208	3/3450	vortex	2 1/2"	1 5/8"	101	S2
0631 S35/2D	\$3,292	C/F	4.7	230	3/3450	vortex	2 1/2"	1 5/8"	101	S2
0631 S35/2D	\$3,292	06087508	4.7	460	3/3450	vortex	2 1/2"	1 5/8"	101	S2
0631 S35/2D	\$3,292	C/F	4.7	575	3/3450	vortex	2 1/2"	1 5/8"	101	S2

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Single phase AS pumps require an external start circuit to operate. Purchase a Sulzer control panel or start kit to operate the pump. AS pumps are FM rated explosion proof, have thermal overloads in the winding, and a Sealminder probe in the oil chamber. Performance of AS pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head.

AS SERIES EXPLOSION PROOF PUMPS CONT'D

	EXPLOSION PROOF	PART NUMBER	PHASE/			DISCH. SIZE	SOLID SIZE	WGT. (lbs.)	MOTOR FRAME	
			HP	VOLT	RPM					IMPELLER
0641 S35/2D	\$3,426	06086209	4.7	208	3/3450	1 vane CB	2 1/2"	1 3/4"	99	S2
0641 S35/2D	\$3,426	06086200	4.7	230	3/3450	1 vane CB	2 1/2"	1 3/4"	99	S2
0641 S35/2D	\$3,426	06086201	4.7	460	3/3450	1 vane CB	2 1/2"	1 3/4"	99	S2
0641 S35/2D	\$3,426	06086217	4.7	575	3/3450	1 vane CB	2 1/2"	1 3/4"	99	S2
0830 S10/4W	\$2,902	06085699	1.3	208	1/1750	vortex	3"	2 3/8"	88	S1
0830 S10/4W	\$2,902	06085610	1.3	230	1/1750	vortex	3"	2 3/8"	88	S1
0830 S10/4D	\$2,980	06086615	1.3	208	3/1750	vortex	3"	2 3/8"	88	S1
0830 S10/4D	\$2,980	06085629	1.3	230	3/1750	vortex	3"	2 3/8"	88	S1
0830 S10/4D	\$2,980	06086601	1.3	460	3/1750	vortex	3"	2 3/8"	88	S1
0830 S10/4D	\$2,980	06086632	1.3	575	3/1750	vortex	3"	2 3/8"	88	S1
0830 S16/4D	\$2,784	06085660	2.1	208	3/1750	vortex	3"	2 3/8"	88	S1
0830 S16/4D	\$2,784	06085611	2.1	230	3/1750	vortex	3"	2 3/8"	88	S1
0830 S16/4D	\$2,784	06085612	2.1	460	3/1750	vortex	3"	2 3/8"	88	S1
0830 S16/4D	\$2,784	06086633	2.1	575	3/1750	vortex	3"	2 3/8"	88	S1
0830 S25/4D	\$3,235	06085636	3.4	208	3/1750	vortex	3"	2 3/8"	88	S2
0830 S25/4D	\$3,235	06085613	3.4	230	3/1750	vortex	3"	2 3/8"	88	S2
0830 S25/4D	\$3,235	06085614	3.4	460	3/1750	vortex	3"	2 3/8"	88	S2
0830 S25/4D	\$3,235	06085695	3.4	575	3/1750	vortex	3"	2 3/8"	88	S2
0831 S25/4D	\$3,430	C/F	3.4	208	3/1690	vortex	3"		120	
0831 S25/4D	\$3,430	C/F	3.4	230	3/1690	vortex	3"		120	
0831 S25/4D	\$3,430	C/F	3.4	460	3/1690	vortex	3"		120	
0831 S25/4D	\$3,430	06072820	3.4	575	3/1690	vortex	3"		120	
0840 S16/2W	\$2,627	C/F	2.1	208	1/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S16/2W	\$2,627	06085616	2.1	230	1/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S16/2D	\$2,417	06085384	2.1	208	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S16/2D	\$2,417	06085615	2.1	230	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S16/2D	\$2,417	06085382	2.1	460	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S16/2D	\$2,417	06086848	2.1	575	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2W	\$2,668	C/F	2.4	208	1/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2W	\$2,668	06085619	2.4	230	1/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2D	\$2,417	06085383	2.4	208	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2D	\$2,417	06085617	2.4	230	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2D	\$2,417	06085618	2.4	460	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S18/2D	\$2,417	06086853	2.4	575	3/3450	1 vane CB	3"	1 1/8"	77	S1
0840 S30/2D	\$3,098	06087667	4	208	3/3450	1 vane CB	3"	1 1/8"	88	S2
0840 S30/2D	\$3,098	06085620	4	230	3/3450	1 vane CB	3"	1 1/8"	88	S2
0840 S30/2D	\$3,098	06085621	4	460	3/3450	1 vane CB	3"	1 1/8"	88	S2
0840 S30/2D	\$3,098	06085386	4	575	3/3450	1 vane CB	3"	1 1/8"	88	S2
0841 S16/4D	\$3,338	C/F	2.1	208	3/1750	1 vane CB	3"	3"	101	S2
0841 S16/4D	\$3,338	C/F	2.1	230	3/1750	1 vane CB	3"	3"	101	S2
0841 S16/4D	\$3,338	06072818	2.1	460	3/1750	1 vane CB	3"	3"	101	S2
0841 S16/4D	\$3,338	C/F	2.1	575	3/1750	1 vane CB	3"	3"	101	S2
0841 S25/4D	\$3,601	06072831	3.4	208	3/1750	1 vane CB	3"	3"	101	S2
0841 S25/4D	\$3,601	06072832	3.4	230	3/1750	1 vane CB	3"	3"	101	S2
0841 S25/4D	\$3,601	C/F	3.4	460	3/1750	1 vane CB	3"	3"	101	S2
0841 S25/4D	\$3,601	C/F	3.4	575	3/1750	1 vane CB	3"	3"	101	S2

Notes: Single phase AS pumps require an external start circuit to operate. Purchase a Sulzer control panel or start kit to operate the pump. AS pumps are FM rated explosion proof, have thermal overloads in the winding, and a Seal minder probe in the oil chamber. Performance of AS pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head.

Consult factory for lead time of pumps. guaranteed to HI or other standards.

Standard power cable length is 32 feet.

AS INSTALLATION ACCESSORIES & OPTIONS

Motor Options

Motor Frame	<i>Additional Power Cable Adder, per 32'</i>	
	PART NO.	LIST PRICE
S1	C/F	\$143
S2	C/F	\$143

208 volt motor adder

PART NO.	LIST PRICE
C/F	C/F
C/F	C/F

Paint Options

	<i>Two Part Epoxy (4 mils)</i>	
S1, S2	standard	

	<i>Coal Tar Epoxy (10 mils)</i>	
85026020		\$392

Testing Options

	<i>Certified Hydraulic Non-Witnessed Test</i>	
S1, S2	85016010	\$906

	<i>PT 10,000 Motor Test, All Models</i>	<i>Witnessing of Any Test, Adder</i>
85016020	\$443	85016000 \$1,059

Miscellaneous

Motor	<i>Single phase start kits **</i>	
	Part No.	Price
S 10/4W	08776012	\$115
S 16/2W	08776014	\$109
S 18/2W	08776016	\$109

	<i>Sealminder Relays***</i>	
	Part No.	List Price
115 volt	61240170	\$139
230 volt	61240171	\$143
460 volt	61240172	\$203
575 volt	61240173	\$203
GFCI, 115v	V42-00021	\$44

Installation Accessories

Pump	<i>Guide Rail Assy W/ Integrated Elbow</i>	
	Part No.	List Price
AS 0630,0631	62326015*	\$1,302
AS 0641	62326015*	\$1,302
AS 0830	62320649	\$516
AS 0840, 0841	62320649	\$516

Guide Rail Assy Without Elbow

Pump	Part No.	List Price
AS 0530	62320560	\$420

Hardware Kits

To attach pump to sliding bracket or discharge elbow to pump:

Pump	Part No.	List Price
AS 0630, 0631, 0641, 0830, 0840, 0841	62306003	\$58

Description	<i>Discharge Elbows</i>		
	Use With	Part No.	List Price
2" NPT	0530	4059143Y-32	\$40
2.5" Flanged	0630, 0631,0641	40516011	\$191
3" NPT	0830,0840	40516010	\$58
3" Flanged	0830,0840,0841	30516006	\$546

Pump	<i>Vertical Wet Pit Stand</i>	
	Part No.	List Price
AS 0630, 0830	42895016	\$292
AS 0631, 0641	61355012	\$303
AS 0831,0841	61350526	\$375

Notes:

*62326015 is 3 inch flanged discharge connection.

**Start kits are for 230 volt pumps only. Consult factory for 208 volt start kits

*** GFCI Master Unit is required when the Sealminder Relay is to be used in a UL Approved control panel.

C/F for other GFCI voltages.

Guide rail assembly 62320560 uses 1 1/4" guide rail pipe.

Guide rail assemblies 62326015, and 62320649 use 2" guide rail pipe.

Guide rail pipe is not included with the assembly.

PIRANHA S SERIES PUMPS

MODEL	LIST	PART	LIST	PART	HP	VOLT	PHASE	DISCH. SIZE	WGT. (lbs.)	MOTOR FRAME	WET PIT
	PRICE	NO.	PRICE	NO.							ACCY. CODE
	STANDARD		EXPLOSION PROOF								
Residential grinder pump											
Pir 09W	\$1,431	05106512	N/A	N/A	3	230	1	1-1/4"	51	-	W 1.3
Pir 09W has built in start capacitor. No control required.											
S10/4W	\$2,337	05105863	\$2,515	05115863	1.3	208	1	1-1/4"	70	S1	W 1.1
	\$2,337	05105864	\$2,515	05115864	1.3	230	1	1-1/4"	70	S1	W 1.1
S20/2W**	\$2,337	05105794	\$2,515	05115682	2	208	1	1-1/4"	71	S1	W 1.1
	\$2,337	05105791	\$2,515	05115681	2	230	1	1-1/4"	71	S1	W 1.1
S26/2W	\$3,010	05105867	\$3,081	05115867	3.5	208	1	1-1/4"	88	S2	W 1.1
	\$3,010	05105868	\$3,081	05115868	3.5	230	1	1-1/4"	88	S2	W 1.1
S10/4	\$2,337	05105847	\$2,515	05115847	1.3	208	3	1-1/4"	70	S1	W 1.1
	\$2,337	05105846	\$2,515	05115846	1.3	230	3	1-1/4"	70	S1	W 1.1
	\$2,337	05105845	\$2,515	05115845	1.3	460	3	1-1/4"	70	S1	W 1.1
	\$2,337	05105848	\$2,515	05115848	1.3	575	3	1-1/4"	70	S1	W 1.1
S20/2*	\$2,337	05105795	\$2,515	05115683	2	208	3	1-1/4"	71	S1	W 1.1
	\$2,337	05105796	\$2,515	05115684	2	230	3	1-1/4"	71	S1	W 1.1
	\$2,337	05105797	\$2,515	05115685	2	460	3	1-1/4"	71	S1	W 1.1
	\$2,337	05105798	\$2,515	05115686	2	575	3	1-1/4"	71	S1	W 1.1
S30/2	\$2,869	05105837	\$3,046	05115837	4.0	208	3	1-1/4"	88	S2	W 1.1
	\$2,869	05105836	\$3,046	05115836	4.0	230	3	1-1/4"	88	S2	W 1.1
	\$2,869	05105835	\$3,046	05115835	4.0	460	3	1-1/4"	88	S2	W 1.1
	\$2,869	05105838	\$3,046	05115838	4.0	575	3	1-1/4"	88	S2	W 1.1

Notes:

Important note regarding Piranha S20 pump:

*The Piranha S20 has replaced the Piranha S16 and S18. The S20 is a direct replacement for both models, however when replacing the S16 with the S20, the overload device in the control panel may have to be adjusted or changed to accommodate the slightly higher amp rating of the S20 motor. This change is not necessary when replacing the S18.

**For single phase S20 pumps, the start kit used for the S16 and S18 pumps will work with the S20, and does not have to be changed. All mechanical accessories such as guide rail assemblies, stands, etc that work with the S16 and S18 pumps will also work with S20 pump.

Other notes:

Models shown in RED are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

Standard power cable length is 32 feet (10 meters).

Prices are for pump only. Order controls and installation accessories separately.

Pump discharge adapter is not included. See Piranha Installation Accessories page for discharge adapter.

Single phase S series pumps require a control panel or external start kit to operate.

All Piranha S series pumps are UL and CSA listed. Explosion proof versions of pumps are FM and CSA rated.

Piranha 09 is UL and CSA listed.

Single phase pumps require a control panel or start kit to operate.

PIRANHA PE SERIES EXPLOSION PROOF PUMPS

MODEL	LIST PRICE	PART NO.	HP	VOLT	PHASE	DISCH. SIZE	WGT. (lbs.)	MOTOR FRAME	WET PIT ACCY. CODE
	Explosion Proof								
PE25/2W	\$4,966	C/F	3.4	208	1	1-1/4"	188	PE1	W 1.2
	\$4,966	PXQ386111212111	3.4	230	1	1-1/4"	188	PE1	W 1.2
PE35/2W	\$4,966	C/F	5.4	208	1	1-1/4"	188	PE1	W 1.2
	\$4,966	PXC386111212111	5.4	230	1	1-1/4"	188	PE1	W 1.2
PE45/2W	\$6,012	C/F	6.0	208	1	1-1/4"	188	PE1	W 1.2
	\$6,012	PXD386111212111	6.0	230	1	1-1/4"	188	PE1	W 1.2
PE28/2	\$4,406	PXM3G6111212111	3.8	208	3	1-1/4"	188	PE1	W 1.2
	\$4,406	PXM3J6111212111	3.8	230	3	1-1/4"	188	PE1	W 1.2
	\$4,406	PXM3L6111212111	3.8	460	3	1-1/4"	188	PE1	W 1.2
	\$4,406	PXM3V6111212111	3.8	600	3	1-1/4"	188	PE1	W 1.2
PE35/2	\$4,257	PXC3G6111212111	5.4	208	3	1-1/4"	188	PE1	W 1.2
	\$4,257	PXC3J6111212111	5.4	230	3	1-1/4"	188	PE1	W 1.2
	\$4,257	PXC3L6111212111	5.4	460	3	1-1/4"	188	PE1	W 1.2
	\$4,257	PXC3V6111212111	5.4	600	3	1-1/4"	188	PE1	W 1.2
PE45/2	\$4,481	PX53G6111212111	6.7	208	3	1-1/4"	188	PE1	W 1.2
	\$4,481	PX53J6111212111	6.7	230	3	1-1/4"	188	PE1	W 1.2
	\$4,481	PX53L6111212111	6.7	460	3	1-1/4"	188	PE1	W 1.2
	\$4,481	PX53V6111212111	6.7	600	3	1-1/4"	188	PE1	W 1.2
PE80/2	\$7,127	PXE3G6111212111	10.7	208	3	2"	287	PE2	W 2.1
	\$7,127	PXE3J6111212111	10.7	230	3	2"	287	PE2	W 2.1
	\$7,127	PXE3X6111212111	10.7	460	3	2"	287	PE2	W 2.1
	\$7,127	PXE3V6111212111	10.7	600	3	2"	287	PE2	W 2.1
PE100/2	\$7,127	PX93G6111212111	13.4	208	3	2"	320	PE2	W 2.1
	\$7,127	PX93J6111212111	13.4	230	3	2"	320	PE2	W 2.1
	\$7,127	PX93X6111212111	13.4	460	3	2"	320	PE2	W 2.1
	\$7,127	PX93V6111212111	13.4	600	3	2"	320	PE2	W 2.1
PE110/2	\$7,385	PXP3G6111212111	14.7	208	3	2"	320	PE2	W 2.1
	\$7,385	PXP3J6111212111	14.7	230	3	2"	320	PE2	W 2.1
	\$7,385	PXP3X6111212111	14.7	460	3	2"	320	PE2	W 2.1
	\$7,385	PXP3V6111212111	14.7	600	3	2"	320	PE2	W 2.1
PE125/2	\$7,612	PXA3G6111212111	16.8	208	3	2"	320	PE2	W 2.1
	\$7,612	PXA3J6111212111	16.8	230	3	2"	320	PE2	W 2.1
	\$7,612	PXA3L6111212111	16.8	460	3	2"	320	PE2	W 2.1
	\$7,612	PXA3V6111212111	16.8	600	3	2"	320	PE2	W 2.1

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. These are standard model configurations and ANY modifications will alter the P/N.

Reference the standard P/N on an order if no modifications are required. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to HI level B only. Consult factory for lead time of pumps guaranteed to HI level A.

Piranha PE series pumps are offered in FM rated Explosion Proof version only.

Standard power cable length is 32 feet (10 meters).

Prices are for pump only. Order controls and installation accessories separately.

Pump discharge adapter is not included. See Piranha Installation Accessories page for discharge adapter.

Pumps available in 230 volt single phase (single phase models only), and 208, 230, 460, and 575 volt three phase. C/F for other voltages.

Single phase pumps require a control panel or external start kit to operate.

PIRANHA ACCESSORIES & OPTIONS

Motor Options

Additional Power Cable

Adder, per 32'

Motor Frame	LIST PRICE
S1	\$392
S2	\$392
PE1	\$392
PE2	\$506

Paint Options

Two Part Epoxy

S1, S2	standard
PE1	standard
PE2	standard

Testing Options

	<i>Certified Hydraulic Non-Witnessed Test*</i>		<i>PT 10,000 Motor Test, All Models</i>		<i>Witnessing of Any Test, Adder</i>	
S1, S2, PE1	85016010	\$428	85016020	\$442	85016000	\$1,059
PE2	85016011	\$428				

Control Panel Retrofit Kit

Components & instructions to modify single phase Piranha "E" or "V" series control panel for use with Piranha "S" series pump.

Part Number	List Price
08776000	\$13

Notes:

Piranha PE series pumps have upper mechanical seal, standard.

Piranha S series have upper lip seal. Upper mechanical seal is optional. Consult factory for price adder.

* Testing in accordance to HI 11.6-2012, grade 2B

PIRANHA INSTALLATION ACCESSORIES

W 1.1 Wet Pit Accessories	PART NO.	LIST PRICE	W 1.2 Wet Pit Accessories	PART NO.	LIST PRICE
Guide Rail Assy, Ball Check 1¼"	62320536	\$299	Guide Rail Assy, Ball Check 1¼"	62320536	\$299
Guide Rail Assy, Std Duty, 1¼"	62320674	\$282	Guide Rail Assy, Std Duty, 1¼"	62320674	\$282
SS Upper Guide Bracket, 1¼"			SS Upper Guide Bracket, 1¼"		
For 62320536 & 62320674	41686122	\$178	For 62320536 & 62320674	41686122	\$178
Guide Rail Assy, Heavy Duty 1¼" **	62320501	\$380	Guide Rail Assy, Heavy Duty 1¼" **	62320501	\$380
Guide Rail Assy, non-spark 1¼" **	4059130-23	\$1,283	Guide Rail Assy, non-spark 1¼" **	4059130-23	\$1,283
Intermediate guide rail bracket 1¼"			Intermediate guide rail bracket 1¼"		
For 62320536 & 62320674	41686100	\$263	For 62320536 & 62320674	41686100	\$263
Intermediate guide rail bracket 1¼"			Intermediate guide rail bracket 1¼"		
For 62320501 & 4059130-23	C/F	\$235	For 62320501 & 4059130-23	C/F	
Vertical Pedestal Base, S1&S2 *	4182037Y	\$186	Vertical Pedestal Base*	61906003	\$352
Horizontal Base, S1 *	61906001	\$148	Horizontal Base, Pir PE25-45	C/F	\$305
Horizontal Base, S2 *	61906002	\$164	Discharge adapter kit, 1 1/4"	61180512	\$106
Discharge adapter kit, 1 1/4"	61180512	\$106			

W 1.3 Wet Pit Accessories	PART NO.	LIST PRICE	W 2.1 Wet Pit Accessories	PART NO.	LIST PRICE
Guide Rail Assy, Light Duty, 1¼"	62325007	\$182	Guide Rail Assy, threaded 2"	62320018	\$433
Guide Rail Assy, Ball Check 1¼"	62326013	\$531	Guide Rail Assy, non-spark 2"	4059130-21	\$1,431
SS Upper Guide Bracket, 1¼"			Guide Rail Assy, flanged 2"	62320661	\$879
For 62325007 & 62326013	41686122	\$178	Flanged elbow for 62320661, 2"	13706002	\$541
			Hardware Kit (disch. elbow to base) Used for 13706002 only	62306037	\$82
			Intermediate guide rail bracket, 2"	C/F	\$267
			Vertical Pedestal Base	61906007	\$249
			Stainless Steel Upper Guide Brkt	41686001	\$142

Other Installation Accessories	PART NO.	LIST PRICE	Shut Off Gate Valves	PART NO.	LIST PRICE
Horizontal Swing Check Valves					
Brass, 1.25"	1405125	\$56	Brass 1.25"	1404125	\$48
Brass, 2"	1404127	\$91	Brass 1.5"	1404150	\$62
Brass, 3"	1404128	\$288	Brass 2"	1404145	\$90

Vertical Ball Check Valves	PART NO.	LIST PRICE
Cast Iron 1.25"	61400529	\$283
Cast Iron 1.5"	61400530	\$353
Cast Iron 2"	61400531	\$300

Notes:

* Includes 61180512 Discharge adapter kit, 1 1/4"

** 62320501 and 4059130-23 include a SS upper guide bracket

Hardware to attach pump to guide rail bracket or pump to wet pit stand is included with the guide rail assembly or stand.

Guide rail assemblies 62320536, 62320674, 62325007 and 62626013 use 1 1/4" guide rail pipe which is NPT threaded into the base elbow.

Guide rail assemblies 62320501, 62320018, 4059130-21 and 4059130-23 use 2" guide rail pipe.

Guide rail pipe is not included with the assembly.

Aluminum extension handles available for gate valves. Consult factory for pricing.

SCAVENGER PUMPS

Standard Duty 2" Pumps, Single Phase, with and without Piggyback Float

MODEL	PRICE	PART NO.	VOLTAGE	HP	PHASE	RPM	CABLE	DISCHARGE	SIZE	(lbs.)
Effluent Pumps, 2" Discharge										
EF 03W-2	\$482	08737007	115	1/3	1	3450	20'	2" NPT Vert	3/4"	22
EF 03W-2A	\$527	08737021	115	1/3	1	3450	20'	2" NPT Vert	3/4"	24
EF 04W-2	\$553	08736258	115	4/10	1	3450	20'	2" NPT Vert	3/4"	32
EF 04W-2A	\$602	08736259	115	4/10	1	3450	20'	2" NPT Vert	3/4"	34
EF 05W-2	\$803	08736260	115	1/2	1	3450	20'	2" NPT Vert	3/4"	36
EF 05W-2A	\$857	08736261	115	1/2	1	3450	20'	2" NPT Vert	3/4"	38
EF 05W-2	\$803	08736262	208-230	1/2	1	3450	20'	2" NPT Vert	3/4"	36
EF 05W-2A	\$857	08736263	208-230	1/2	1	3450	20'	2" NPT Vert	3/4"	38
Sewage Pumps, 2" Discharge										
EJ 04W-2	\$563	08736550	115	4/10	1	1750	20'	2" NPT Vert	2"	35
EJ 04W-2A	\$611	08736551	115	4/10	1	1750	20'	2" NPT Vert	2"	37
EJ 05W-2	\$803	08736552	115	1/2	1	1750	20'	2" NPT Vert	2"	37
EJ 05W-2A	\$857	08736553	115	1/2	1	1750	20'	2" NPT Vert	2"	39
EJ 05W-2	\$803	08736554	208-230	1/2	1	1750	20'	2" NPT Vert	2"	37
EJ 05W-2A	\$857	08736555	208-230	1/2	1	1750	20'	2" NPT Vert	2"	39

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head.

Consult factory for lead time of pumps guaranteed to HI or other standards.

"A" following the pump model indicates automatic version. Pump comes complete with a piggyback float switch.

Scavenger standard duty pumps are not available with the ABS Monitoring System.

All Scavenger pumps are CSA listed.



ELEVATOR SUMP PUMP - OIL ALERT SYSTEM

Complete system which includes submersible effluent pump with 20' of cable.

System includes NEMA 4x oil alert simplex control panel with preset level sensor and remote alarm with auxiliary contacts.

DESCRIPTION	VOLTAGE	HP	PHASE	CABLE	Price	Part Number
Oil Alert Pump System -						
EF 05W-2	115	1/2	1	20'	\$2,690	08906016
EF 05W-2	230	1/2	1	20'	\$2,690	08906017
EF 10W-2	208-230	1	1	20'	\$3,267	08906018
EF 10D-2	208-230 460	1	3	20'	\$3,267	08906019 08906020
EF 20D-2	208-230 460	2	3	20'	\$3,456	08906021 08906022

SCAVENGER PUMPS

Heavy Duty 1 1/4" & 2" Pumps

MODEL	LIST PRICE	PART NO.	VOLTAGE	HP	PHASE	RPM	PWR CABLE LENGTH	DISCHARGE	SOLID SIZE	WGT (lbs.)
Effluent Pumps, 1 1/4" & 2" Discharge										
EF 05W-1H	\$1,403	08736250	115	1/2	1	3450	20'	Horz*	5/8"	68
	\$1,317	08736251	208-230	1/2	1	3450	20'	Horz*	5/8"	68
EF 10W-1H	\$1,346	08736252	208-230	1	1	3450	20'	Horz*	5/8"	70
EF 10W-2	\$1,367	08736253	208-230	1	1	3450	20'	2" NPT Vert	3/4"	62
EF 10D-2	\$1,191	08736254	208-230	1	3	3450	20'	2" NPT Vert	3/4"	57
	\$1,191	08736255	460	1	3	3450	20'	2" NPT Vert	3/4"	57
	\$1,191	08736256	575	1	3	3450	20'	2" NPT Vert	3/4"	57
EF 20D-2	\$1,561	08736270	208-230	2	3	3450	20'	2" NPT Vert	3/4"	C/F
	\$1,561	08736271	460	2	3	3450	20'	2" NPT Vert	3/4"	C/F
	\$1,561	08736272	575	2	3	3450	20'	2" NPT Vert	3/4"	C/F
Sewage Pumps, 2" Discharge										
EJ 05D-2	\$1,301	08736573	208-230	1/2	3	1750	20'	2" ANSI Horz**	2"	78
	\$1,301	08736574	460	1/2	3	1750	20'	2" ANSI Horz**	2"	78
	\$1,301	08736575	575	1/2	3	1750	20'	2" ANSI Horz**	2"	78
EJ 07W-2	\$1,403	08736556	115	3/4	1	1750	20'	2" ANSI Horz**	2"	84
	\$1,404	08736557	208-230	3/4	1	1750	20'	2" ANSI Horz**	2"	84
EJ 07D-2	\$1,269	08736558	208-230	3/4	3	1750	20'	2" ANSI Horz**	2"	80
	\$1,269	08736559	460	3/4	3	1750	20'	2" ANSI Horz**	2"	80
	\$1,269	08736576	575	3/4	3	1750	20'	2" ANSI Horz**	2"	80
EJ 10W-2	\$1,515	08736500	208-230	1	1	1750	20'	2" ANSI Horz**	2"	84
EJ 10D-2	\$1,289	08736503	208-230	1	3	1750	20'	2" ANSI Horz**	2"	80
	\$1,289	08736504	460	1	3	1750	20'	2" ANSI Horz**	2"	80
	\$1,289	08736505	575	1	3	1750	20'	2" ANSI Horz**	2"	80
EJ 15W-2	\$1,504	08736501	208-230	1 1/2	1	1750	20'	2" ANSI Horz**	2"	90
EJ 15D-2	\$1,385	08736506	208-230	1 1/2	3	1750	20'	2" ANSI Horz**	2"	84
	\$1,385	08736507	460	1 1/2	3	1750	20'	2" ANSI Horz**	2"	84
	\$1,385	08736508	575	1 1/2	3	1750	20'	2" ANSI Horz**	2"	84
EJ 20W-2	\$1,684	08736502	208-230	2	1	1750	20'	2" ANSI Horz**	2"	90
EJ 20D-2	\$1,620	08736509	208-230	2	3	1750	20'	2" ANSI Horz**	2"	84
	\$1,620	08736510	460	2	3	1750	20'	2" ANSI Horz**	2"	84
	\$1,620	08736511	575	2	3	1750	20'	2" ANSI Horz**	2"	84

Notes:

Models shown in RED are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head. Consult factory for lead time of pumps guaranteed to HI or other standards.

These pumps are not available with the ABS Monitoring System.

* Pump discharge has 1 1/4" NPT female thread as well as an integrated Piranha style bolting flange.

** Short radius 2"ANSI x 2" NPT elbow and attaching hardware are included with pump. Elbow converts pump to 2" NPT vertical discharge. Consult factory for alternate version of pump equipped with 2"ANSI x 3"NPT elbow.

All Scavenger pumps are CSA listed.

SCAVENGER PUMPS

Heavy Duty 3" Pumps

MODEL	LIST PRICE	PART NO.	VOLTAGE	HP	PHASE	RPM	PWR CABLE LENGTH	DISCHARGE	SOLID SIZE	WGT (lbs.)
<i>Engineered Sewage Pumps, 3" Discharge</i>										
EJ 10W-3	\$2,074	08736512	208-230	1	1	1750	20'	3" ANSI Horz	2 1/2"	77
	\$2,074	08736517	208-230	1	3	1750	20'	3" ANSI Horz	2 1/2"	70
EJ 10D-3	\$2,074	08736518	460	1	3	1750	20'	3" ANSI Horz	2 1/2"	70
	\$2,074	08736519	575	1	3	1750	20'	3" ANSI Horz	2 1/2"	70
EJ 15W-3	\$2,247	08736513	208-230	1 1/2	1	1750	20'	3" ANSI Horz	2 1/2"	90
	\$2,235	08736520	208-230	1 1/2	3	1750	20'	3" ANSI Horz	2 1/2"	84
EJ 15D-3	\$2,235	08736521	460	1 1/2	3	1750	20'	3" ANSI Horz	2 1/2"	84
	\$2,235	08736522	575	1 1/2	3	1750	20'	3" ANSI Horz	2 1/2"	84
EJ 20W-3	\$2,379	08736514	208-230	2	1	1750	20'	3" ANSI Horz	2 1/2"	90
	\$2,379	08736523	208-230	2	3	1750	20'	3" ANSI Horz	2 1/2"	84
EJ 20D-3	\$2,379	08736524	460	2	3	1750	20'	3" ANSI Horz	2 1/2"	84
	\$2,379	08736525	575	2	3	1750	20'	3" ANSI Horz	2 1/2"	84

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head. Consult factory for lead time of pumps guaranteed to HI or other standards.

These pumps are not available with the ABS Monitoring System.

All Scavenger pumps are CSA listed.

SCAVENGER PUMPS

Heavy Duty 3" & 4" Pumps, with ABS Monitoring System

MODEL	LIST PRICE	PART NO.	VOLTAGE	HP	PHASE	RPM	PWR CABLE LENGTH	DISCHARGE	SOLID SIZE	WGT (lbs.)
Engineered Sewage Pumps, 3" Discharge										
EJ 30W-3*	\$3,187	08736815	208-230	3	1	1750	32'	3" ANSI Horz	2 1/2"	147
	\$3,193	08736826	208-230	3	3	1750	32'	3" ANSI Horz	2 1/2"	143
EJ 30D-3	\$3,193	08736827	460	3	3	1750	32'	3" ANSI Horz	2 1/2"	143
	\$3,193	08736828	575	3	3	1750	32'	3" ANSI Horz	2 1/2"	143
EJ 50W-3*	\$3,524	08736816	208-230	5	1	1750	32'	3" ANSI Horz	2 1/2"	161
	\$3,468	08736829	208-230	5	3	1750	32'	3" ANSI Horz	2 1/2"	154
EJ 50D-3	\$3,468	08736830	460	5	3	1750	32'	3" ANSI Horz	2 1/2"	154
	\$3,468	08736831	575	5	3	1750	32'	3" ANSI Horz	2 1/2"	154
	\$4,197	08736832	208-230	7 1/2	3	1750	32'	3" ANSI Horz	2 1/2"	161
EJ 75D-3	\$4,197	08736833	460	7 1/2	3	1750	32'	3" ANSI Horz	2 1/2"	161
	\$4,197	08736834	575	7 1/2	3	1750	32'	3" ANSI Horz	2 1/2"	161
Engineered Sewage Pumps, 4" Discharge										
EJ 30W-4*	\$3,417	08736835	208-230	3	1	1750	32'	4" ANSI Horz	3"	154
	\$3,413	08736837	208-230	3	3	1750	32'	4" ANSI Horz	3"	150
EJ 30D-4	\$3,413	08736838	460	3	3	1750	32'	4" ANSI Horz	3"	150
	\$3,413	08736839	575	3	3	1750	32'	4" ANSI Horz	3"	150
EJ 50W-4*	\$3,772	08736836	208-230	5	1	1750	32'	4" ANSI Horz	3"	165
	\$3,771	08736840	208-230	5	3	1750	32'	4" ANSI Horz	3"	158
EJ 50D-4	\$3,771	08736841	460	5	3	1750	32'	4" ANSI Horz	3"	158
	\$3,771	08736842	575	5	3	1750	32'	4" ANSI Horz	3"	158
	\$4,514	08736843	208-230	7 1/2	3	1750	32'	4" ANSI Horz	3"	165
EJ 75D-4	\$4,514	08736844	460	7 1/2	3	1750	32'	4" ANSI Horz	3"	165
	\$4,514	08736845	575	7 1/2	3	1750	32'	4" ANSI Horz	3"	165
	\$5,862	08736846	208-230	10	3	1750	32'	4" ANSI Horz	3"	170
EJ 100D-4	\$5,862	08736847	460	10	3	1750	32'	4" ANSI Horz	3"	170
	\$5,862	08736848	575	10	3	1750	32'	4" ANSI Horz	3"	170

Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.

Performance of stock pumps is guaranteed to ISO 9906 gr2, which is +/- 8% flow and +/- 5% head. Consult factory for lead time of pumps guaranteed to HI or other standards.

Monitoring system includes an ABS moisture sensing probe in the seal oil chamber to detect the presence of water in the oil. This probe provides an early warning of mechanical seal failure. Single phase pumps 2 HP and below include an internal temperature/current sensing overload device connected in series with the motor winding. Single phase pumps 3HP and above, as well as all three phase pumps, include an internal set of normally closed temperature sensors imbedded in the motor winding. Single phase pumps 2HP and below will have one electrical cable. Single phase pumps 3 HP and above, as well as all three phase pumps will have two electrical cables, one for the motor power, and one for the sensors. Sensing devices must be connected to a properly equipped control panel in order to operate. Select a control panel from the appropriate Scavenger control panel price page.

The pumps shown on this page have the ABS Monitoring System. This is the standard configuration that ABS stocks for these models.

Standard stocking lead times apply.

* EJ 30W and EJ 50W can only be operated with an external start box or ABS control panel. Start box is not included in pump

price and must be ordered separately. See Scavenger Controls pages for details.

All Scavenger pumps are CSA listed.

SCAVENGER OPTIONS

Additional Power Cable Options

For pumps without ABS Monitoring System

Description	Part No.	LIST PRICE
Extra power cable, 10 foot increments only		
Scavenger Model EF & EJ, 07, 10, 15, 20 single and three phase:		
First additional 10 foot length	See Note 1	\$260
Subsequent additional 10 foot lengths	See Note 1	\$45

Maximum total cable length is 50 feet. Consult factory if greater than 50 feet is required.

For pumps with ABS Monitoring System

Description	Part No.	LIST PRICE
Extra power cable, 10 foot increments only		
Scavenger Model EJ 30, EJ 50, EJ 75, EJ 100, single and three phase:		
First additional 10 foot length	See Note 1	\$369
Subsequent additional 10 foot lengths	See Note 1	\$111

Maximum total cable length is 50 feet. Consult factory if greater than 50 feet is required.

Mechanical Seal Options

Description	Part No.	LIST PRICE
Silicon Carbide mechanical seal		
Scavenger Model EF & EJ 05-1H, 07, 10, 15, 20	C/F	\$415
Scavenger Model EJ 30, EJ 50, EJ 75, EJ 100	C/F	\$468

Paint Options

Description	Part No.	LIST PRICE
Coal tar epoxy paint:		
Scavenger Model EF & EJ 04, 05, 07, 10, 15, 20	85026020	\$392
Scavenger Model EJ 30, EJ 50, EJ 75, EJ 100	85026011	\$538

Testing Options

Description	Part No.	LIST PRICE
Certified, non-witnessed hydraulic performance test, HI level B:		
Scavenger 1 1/4" and 2" pumps	85016029	\$626
Scavenger 3" and 4"	85016054	\$750

Notes:

Note 1: Specify length desired on your order (10 foot increments). Sulzer will enter the proper part number for the pump assembly with additional cable. Calculate total price for length desired, and enter on your order. Subsequent 10 foot lengths have a reduced list price as shown.

SCAVENGER INSTALLATION ACCESSORIES

Effluent pumps, 1 1/4" discharge, EF 05-1H, EF 10-1H

Description	Part No.	LIST PRICE
Guide Rail System with integrated elbow, standard, 1 1/4" NPT outlet	62320674	\$282
Guide Rail System with threaded elbow, heavy duty, 1 1/4" NPT outlet	62320501	\$380
Guide Rail System with integrated elbow and ball check valve, 1 1/4" NPT outlet	62320536	\$299
Discharge Elbow, 1 1/4" threaded, galvanized	4059143Y-20	\$19

Effluent & Sewage pumps, 2" vertical discharge, EF 03-2, 04-2, 05-2, 10-2, 20-2; EJ 04-2, 05W-2

Description	Part No.	LIST PRICE
Guide Rail System with 2" integrated elbow, E-Z Out	62326009	\$771
Increaser, 2"x 3" NPT (all two inch models)	13760034	\$132
Increaser, 2"x 3" NPT (EF 10-2 only)	31217904	\$129

Sewage pumps, 2" discharge, EJ 05-2, 07-2, 10-2, EJ 15-2, EJ 20-2

Description	Part No.	LIST PRICE
Guide Rail System with integrated elbow, 3"NPT outlet (includes hardware kit)	62327989	\$546
Discharge Elbow, 2"x 2" ANSI flanged, short radius	13706007	\$182
Discharge Elbow, 2" ANSI flanged x 3" NPT, short radius	31097936	\$138
Note: Hardware and gasket to attach 2"x2" & 2"x3" elbow to pump is included with EJ series 2" pumps.		

Sewage pumps, 3" discharge, EJ 10-3, EJ 15-3, EJ 20-3

Description	Part No.	LIST PRICE
Guide Rail System with integrated elbow, 3"NPT outlet (includes hardware kit)	62327988	\$546
Discharge Elbow, 3"x 3" ANSI flanged, short radius	4051003	\$262
Hardware kit, attaches 4051003 elbow to pump (includes gasket)	62306090	\$61
Discharge Elbow, 3" ANSI flange x 3" NPT, short radius	13706006	\$609
Hardware Kit, attaches 13706006 elbow to pump (includes gasket)	62306088	\$54

Sewage pumps, 3" discharge, EJ 30-3, EJ 50-3, EJ 75-3

Description	Part No.	LIST PRICE
Guide Rail System with integrated elbow, 3" flange outlet	62320649	\$516
Hardware Kit, attaches pump to 62320649 G.R. System	62306003	\$58
Intermediate GR Brkt- 3" Disch. Pipe	V25-00128	\$264
Intermediate GR Brkt- 4" Disch. Pipe	V25-00090	\$264
Discharge Elbow, 3"x 3" ANSI flanged, short radius	4051003	\$262
Discharge Elbow, 3"x 4" ANSI flanged	4059444Y-03	\$677
Hardware Kit, attaches 4051003 or 4059444Y-03 elbow to pump (includes gasket)	62306013	\$58
Discharge Elbow, 3" ANSI flange x 3" NPT, short radius	13706006	\$608
Hardware Kit, attaches 13706006 elbow to pump (includes gasket)	62306088	\$54

Sewage pumps, 4" discharge, EJ 30-4, EJ 50-4, EJ 75-4, EJ 100-4

Description	Part No.	LIST PRICE
Guide Rail System with integrated elbow, 4" flange outlet	62320652	\$635
Hardware Kit, attaches pump to 62320652 G.R. Syst	62306003	\$58
Intermediate GR Brkt-4" Disch Pipe	V25-00090	\$264
Intermediate GR Brkt-6" Disch Pipe	V25-00070	\$264
Discharge Elbow, 4"x 4" ANSI flanged, short radius	4051004	\$244
Hardware Kit, attaches 4051004 elbow to pump (includes gasket)	62306087	\$61

Installation adapters (for replacing SJS and SJSI Scavengers)

Description	Part No.	LIST PRICE
Adapter to attach EJ 2 inch pumps to the 6232580 guide rail assembly.	32516034	\$703
Adapter to attach EJ 3 inch pumps to the 62320517 or 6232517 guide rail assembly.	32516033	\$625
Note: Feet on EJ 30-3 thru 75-3 must be shortened by 1" when using with the 62320517 GRA.		
Hardware kit for 32516033 adapter	62306093	\$46
Hardware kit for 32516034 adapter	62306145	\$40

Notes:

Note 1: Specify length desired on your order (5 foot increments). Sulzer will enter the proper part number for the length selected. List price is per 5 foot length. Calculate total price for length desired, and enter on your order.

Guide rail system 62326009 uses dual 3/4" guide rail pipes. Guide rail system 62327988 and 62327989 uses 1" guide rail pipe.

Guide rail system 62320674 and 62320536 use 1 1/4" guide rail pipe which is NPT threaded into the base elbow. Guide rail system 62320501, 62326023, and 62320652 uses 2" guide rail pipe.

Guide rail pipe is not included with the assembly.

SCAVENGER SINGLE PHASE START KITS

Single Phase Start Boxes

Description	Part No.	LIST PRICE
Capacitor start box for 3 & 5 HP Scavenger pumps:		
EJ 30W, 3HP, 230 volt , single phase, NEMA 4X	08776078	\$519
EJ 30W, 3HP, 208 volt, single phase, NEMA 4X	08776082	\$535
EJ 50W, 5 HP, 230 volt , single phase, NEMA 4X	08776080	\$535
EJ 50W, 5 HP, 208 volt, single phase, NEMA 4X	08776084	\$551
Capacitor start kit for 3 & 5 HP Scavenger pumps:		
EJ 30W, 3HP, 230 volt , single phase	08776079	\$137
EJ 30W, 3HP, 208 volt, single phase	08776083	\$153
EJ 50W, 5 HP, 230 volt , single phase	08776081	\$154
EJ 50W, 5 HP, 208 volt, single phase	08776085	\$169

Notes:

Note: Use start box or start kit for EJ 30W and EJ 50W pumps when connecting to an existing control panel. These models cannot be operated without an ABS start box, start kit, or control panel.

Start box contains pre-wired capacitors and start relay in NEMA 4X indoor/outdoor enclosure. Start kit contains capacitors and relay shipped loose for installation in an existing control panel.

Start boxes and start kits do not provide motor overload or branch short circuit protection, and should only be used to retrofit a control panel which contains this protection.

Select proper start box or start kit based on motor model, and power supply voltage.

SUMP PUMPS

Robusta Pumps

PART NO.	MODEL	HP	VOLT	PHASE	RPM	DISCH. (inches)	WEIGHT (lbs.)	List Price
01135080	Robusta 100 TS	1/4	115	1	3450	1 1/4	10.5	\$282
01135081	Robusta 200 TS	1/3	115	1	3450	1 1/4	12.5	\$310
01135089	Robusta 300 TS	1/2	115	1	3450	1 1/4	13	\$416

TS = Automatic version with replaceable piggyback float switch.
Pumps include 19' of cable, check valve, and plug.

Packages

PART NO.	MODEL	HP	VOLT	PHASE	RPM	DISCH. (inches)	WEIGHT (lbs.)	List Price
08726300 (ROB100TS)	Sink-Tray System	1/4	115	1	3450	1 1/4	16	\$461
08726303 (ROB200TS)	Sink-Tray System	1/3	115	1	3450	1 1/4	18	\$472
08726304 (ROB300TS)	Sink-Tray System	1/2	115	1	3450	1 1/4	19	\$506
6515015	Sink-Tray Basin with 15" diameter cover and 15" deep basin includes hardware (Empty)							\$75

Water Drainer

PART NO.	MODEL	HP	VOLT	PHASE	RPM	DISCH. (inches)	WEIGHT (lbs.)	List Price
	WD-300	1/2	115	1	3450	1 1/4	14.2	\$775



Notes:

Models shown in **RED** are normally stocked in the SC warehouse. Consult inventory report for latest info and current inventory status.
Sink-Tray System includes 15" tank, steel cover, piping and automatic submersible pump. Unit is fully assembled.

LEVEL CONTROLS & ACCESSORIES

FLOAT SWITCHES

	PART NO.	LIST PRICE	VOLT	CABLE LENGTH
Piggyback Floats				
Single phase piggyback float switch for use with one pump and no control panel. Mounting straps, and non-mercury switch included. Totally self-contained pump switch (no extra relay or box required). Switch plugs into outlet and pump plugs into back of switch plug. Omni-directional float. Rated 13 amps max, 43 inrush amps max.	12806025	\$39	115	10'
	12806026	\$42	115	15'
	12806027	\$95	115	30'
	12806028	\$116	115	50'
	12806034	\$52	230	15'
	12806035	\$67	230	30'
	12806036	\$86	230	50'
Single phase double piggyback float switch . Same as above except has separate on and off float for easier setting of pump on and off point. Is ideally suited for narrow sumps. 13 amps max, 55 inrush amps at 115 volt, 35 inrush amps at 230 volt.	12806833	\$138	115	15'
	12806834	\$132	230	15'
Pilot Floats for Use with Control Panels				
Pilot duty float switches, for use with control panels. Can be used with intrinsically safe relays. Must be connected to a control panel.	12806001	\$45	-	15'
	12806002	\$58	-	30'
	12806003	\$140	-	60'
	12806004	\$116	-	90'


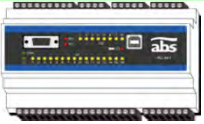








Notes:

ABS pilot float switches are mechanical and have an actuation angle of 45 degrees. C/F for mercury floats.
All float switches listed above have "normally open" contacts. C/F for floats with "normally closed" contacts.

	PART NO.	LIST PRICE
Float Switch Accessories		
Float switch bracket. Holds three pilot floats. Aluminum.	4142525Y	\$56
Float switch bracket. Holds four pilot floats. Aluminum.	4142526Y	\$81
Float switch bracket. Holds five pilot floats. Aluminum.	4142536Y	\$111
Float switch bracket. Holds three pilot floats. 316SS	62356000	\$75
Float switch bracket. Holds four pilot floats. 316SS	62356001	\$110
Float switch bracket. Holds five pilot floats. 316SS	62356002	\$151
NEMA 4X Simplex junction box. Fiberglass with cable glands for 3 floats and 1 pump	6002002-1	\$82
NEMA 4X Duplex junction box. Fiberglass with cable glands for 4 floats and 2 pumps	6002002-2	\$222

	PART NO.	LIST PRICE
High Level Alarms Panels		
Tank Alert-high level alarm 115V, 15' cable, NEMA 1(indoor), with waterproof cablesplce kit. Includes alarm float.	32886906	\$162
Tank Alert-high level alarm 115V, 15' cable, NEMA 4X (outdoor), with waterproof cable splice kit. Includes alarm float.	32886907	\$348
* GFCI Master Unit is required to make Sealminder Relay UL Approved C/F for other GECl voltages		



PUMP CONTROLLERS/ACCESSORIES


PC 242 Duplex Pump Controller		Part Number	Price
	PC242, Advanced Two Pump Controller with User Interface	1 270 0001	\$1,442
PC 441 System		Part Number	Price
	PC441, Modular pump controller for 4 pumps	1 270 7000	\$1,378
	CA441, Di monitoring module	1 690 7000	\$861
	CA442, Temperature monitoring module	1 690 7001	\$861
	CA443, Power monitoring module	1 690 7002	\$996
	CA511, Graphical operator interface	1 510 7003	\$1,351
	CA781, Expansion I/O	1 690 7008	\$569
	CA622, RS485 module	C/F	\$310
MD 127 pressure transducer - used in heavy sludge applications		Part Number	Price
	32.8 ft sensing range, 32.8 ft cable	2 700 7016	\$1,370
	32.8 ft sensing range, 82 ft cable	2 700 7018	\$1,585
MD 167 pressure transducer - used in heavy sludge applications		Part Number	Price
	16 ft sensing range, 32.8 ft cable	2 700 7026	\$1,072
	32.8 ft sensing range, 49 ft cable	2 700 7027	\$1,176

Notes:

Additional transducers with different sensing ranges and cable lengths available upon request

PUMP CONTROLLERS/ACCESSORIES

Sensors and Accessories		Part Number	Price
	MD 124, DIN rail mounted 2-wire pressure sensor 0 - 11.5ft H2O	1 700 0664	\$337
	Iron cast sinker, weight 5 lb	1 890 0008	\$98
	Wire + Lock 49ft for sinker 18900008	17801-1000-000	\$24
	Power Supply, 24v for PC242 and PC441 controllers	V45-00285	\$258
	Intrinsically Safe Isolator	V37-00454	\$788

ABS C&M AquaProg		Part Number	Price
	Software and License AquaProg Software & Manuals License for AquaProg (specify company and user name)	7 140 0006	\$773

Notes:

PC242 and PC441 controllers must be used with a 4-20ma loop powered sensor such as the MD127 or MD126 in order to operate as a pump controller with full functionality.

24vdc power supply is required for PC242 and PC441 controllers

AquaProg is a Windows based program for configuring PC242 and PC441 from an external computer

AquaProg can be used for:

- * Configuring substations
- * Checking and acknowledging alarms
- * Checking events
- * Collecting log data
- * Showing the display and LED of the substation
- * Showing the status of the in- and outputs of the substation
- * Collecting and sending the configuration data of the substation
- * substation software upgrade

SINGLE PHASE START KITS

XFP Start Kits

230 Volt:

XFP 230 Volt

Motor	Part Number	List Price
PE20/6W	08776100	\$177
PE18/4W	08776105	\$177
PE28/4W	08776101	\$229

PIRANHA Start Kits

230 Volt:

Piranha S Series 230 Volt

Motor	Part Number	List Price
S 10/4W	08776012	\$115
S 20/2W	08776014	\$109
S 26/2W	08776018	\$118

Control Panel Retrofit Kit

	Part Number	List Price
Conversion Kit	08776000	\$13

Components & instructions to modify single phase Piranha "E" or "V" series control panel for use with Piranha S20/2W series pump.

230 Volt:

Piranha PE Series 230 Volt

Motor	Part Number	List Price
PE 25/2W	08776102	\$130
PE 35/2W	08776103	\$131
PE 45/2W	08776104	\$187

AS Start Kits

230 Volt:

AS Series 230 Volt

Motor	Part Number	List Price
S 10/4W	08776012	\$115
S 16/2W	08776014	\$109
S 18/2W	08776016	\$108

Start kits for older products

Motor	Part No. 230 Volt	Part No. 208 Volt	List Price
AFP			
M13/4W	08776006	08776095	\$187
M18/4W	08776007	08776095	\$187
M28/4W	08776008	08776059	\$250
M40/4W	08776009	08776089	\$294
Piranha			
M25/2W	08776003	08776088	\$141
M35/2W	08776004	08776093	\$141
M50/2W	08776005	08776098	\$250

208 Volt:

XFP 208 Volt

Motor	Part Number	List Price
PE20/6W	08776107	\$191
PE18/4W	08776106	\$191
PE28/4W	08776109	\$242

208 Volt:

Piranha S Series 208 Volt

Motor	Part Number	List Price
S 10/4W	08776013	\$125
S 20/2W	08776015	\$129
S 26/2W	08776086	\$134

208 Volt:

Piranha PE Series 208 Volt

Motor	Part Number	List Price
PE 25/2W	08776108	\$141
PE 35/2W	08776110	\$141
PE 45/2W	08776111	\$197

208 Volt:





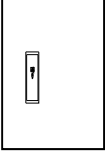
AS Series 208 Volt

Motor	Part Number	List Price
S 10/4W	08776013	\$125
S 16/2W	08776015	\$129
S 18/2W	08776015	\$129

Scavenger pumps

Motor	Part Number	List Price
230 volt		
EJ 30W, 3HP	08776079	\$137
EJ 50W, 5HP	08776081	\$154
208 volt		
EJ 30W, 3 HP	08776083	\$153
EJ 50W, 5 HP	08776085	\$16J

SEAL PROBE/TEMP SWITCH MONITORING RELAYS

Seal leak detection and temperature relays		Part Number	Price
	Seal leak detection relay, din rail mounted CA461 110-230V-AC	16907010	\$243
	CA461 24V-DC	16907011	\$284
	Seal leak/ overtemp relay, din rail mounted CA462 110-230V-AC	16907006	\$341
	CA462 24V-DC	16907007	\$472
	MD681 Monitoring Box  includes PC441 system	15607000	\$18,500
	Local Seal leak relay panel includes CA461 relay, alarm light, seal alarm dry contacts, N4X FG enclosure		
	115 Volt	V45-00418	\$1,097
	230 Volt	V45-00419	\$1,097
	N4X SS enclosure relay panel as described	V45-00420	\$1,958

Notes

- CA462 includes built in MiniCAS converter.
- CA461 relay used to interface to one seal probe. Relay includes alarm contact output.
- CA462 relay used to interface to one seal probe and one bi-metal temperature switch. Relay includes alarm contact outputs for seal failure and overtemperature.

MONITORING PANELS

Motor Monitoring Panels (Bi-Metalic)

For: XFP PE1-PE5 motors & all Piranhas

Enclosure	Part Number	List Price
None (Chassis Only)	V45-00119	\$1,181
NEMA 4X Fiberglass	V45-00043	\$1,816
NEMA 4X Stainless	V45-00043-ss	\$3,268

Used for motors with one internal moisture probe and one set of NC bi-metal switches for stator temperature. Dry contacts for alarm functions are included. Requires 115VAC power to operate. CA462 relay included.

For: XFP PE4, PE5 w/full monitoring option

For: PE6, M8, M9 w/standard full monitoring system

Enclosure	Part Number	List Price
None (Chassis Only)	V45-00114	\$2,121
NEMA 4X Fiberglass	V45-00031	\$3,015
NEMA 4X Stainless	V45-00245	\$4,538

Used for motors with up to three internal moisture probes and NC bi-metal switches for stator and bearing temperature. Dry contacts for all alarm functions are included. Requires 115VAC power to operate. CA462 relay included.

PC 441 Based Motor Monitoring Panels

For: XFP PE1-PE6, M8, M9 motors & all Piranhas

Enclosure	Part Number	List Price
NEMA 4X Fiberglass	V45-00369	\$6,841
NEMA 4X Stainless	V45-00370	\$8,247

Used for motors with any combination of up to 3 moisture probes 5 RTDs, 1 bi-metallic thermal overload switch in the motor winding, and 1vibration sensor.

Included in the package is one CA511 Operator Interface, one PC441 module, two CA442 modules, one CA441 module as well as a power circuit breaker. The CA511 operator interface is mounted on an inner door. Requires 115VAC power to operate.

Motor Monitoring Panels (RTDs)

For: XFP PE4-PE6, M8, M9 motors with upper & lower bearing RTD and SINGLE stator RTD option (total of 3 RTDs)

Enclosure	Part Number	List Price
None (Chassis Only)	V45-00368	\$3,420
NEMA 4X Fiberglass	V45-00246	\$4,353
NEMA 4X Stainless	V45-00247	\$5,978

Used for motors with bearing and single stator RTD option and up to three internal moisture probes. Provides display of actual temperature of bearings and stator, as well as alarm point dry contacts (adjustable trip points). Also provides monitoring of moisture probes and dry alarm contacts for these.

Requires 115VAC power to operate. CA462 relay included.

For: XFP PE4-PE6, M8, M9 motors with upper & lower bearing RTD and TRIPLE stator RTD option (total of 5 RTDs)

Enclosure	Part Number	List Price
None (Chassis Only)	V45-00351	\$5,105
NEMA 4X Fiberglass	V45-00367	\$6,522
NEMA 4X Stainless	V45-00355	\$8,296

Used for motors with bearing and three stator RTD option and up to three internal moisture probes. Provides display of actual temperature of bearings and stator, as well as alarm point dry contacts (adjustable trip points). Also provides monitoring of moisture probes and dry alarm contacts for these.

Requires 115VAC power to operate. CA462 relay included.

PIRANHA S SERIES RESIDENTIAL CONTROL PANELS

MODEL	VOLT	PHASE	SIMPLEX PART NO.	LIST PRICE	DUPLEX PART NO.	LIST PRICE
PIR09W	230	1	08906006	\$597	08906506	\$926
S10/4W	230	1	08906101	\$1,244	08906601	\$2,218
S10/4D	230	3	08906104	\$1,422	08906604	\$2,152
S10/4D	460	3	08906107	\$1,365	08906607	\$2,152
S20/2W	230	1	08906102	\$1,244	08906602	\$2,218
S20/2W	208	1	CF	\$1,244	CF	\$2,218
S20/2D	230	3	08906105	\$1,365	08906605	\$2,152
S20/2D	460	3	08906107	\$1,365	08906607	\$2,152
S26/2W	230	1	08906103	\$1,275	08906603	\$2,284
S30/2D	230	3	08906106	\$1,464	08906606	\$2,207
S30/2D	460	3	08906104	\$1,422	08906604	\$2,152

PIR S Control panels include the following:

- 1 Compact NEMA 4X fiberglass enclosure.
- 2 Single phase - Magnetic motor contactor to control pump and circuit breaker to provide pump disconnect and branch circuit protection.
- 3 Three phase - IEC Motor contactor to control pump and motor protective switch to provide adjustable overload, branch circuit protection and pump disconnect.
- 4 Alternating pump control as well as override should either pump fail. (Duplex only).
Control circuit board provides pump control and alternation.
- 5 A hand-off-auto selector switch is mounted on circuit board.
- 6 A green pump run light mounted on circuit board.
- 7 Float status indicator lights mounted on circuit board (duplex only)
- 8 Control and Alarm power indicator lights mounted on circuit board
- 9 High level indication is provided through a red alarm beacon.
- 10 An alarm horn provides audible indication of high level.
- 11 An exterior alarm test/normal/silence switch is provided.
- 12 A control transformer is included for 230/3/60 and 460/3/60 applications.
- 13 Terminals are provided for connecting the float switches and motor leads into the control panel.
- 14 A high level alarm dry contact is provided
- 15 Controls are UL 508A approved.

Controls are also available in 600 volt three phase with CSA approval. Use 460 volt price and consult factory for part numbers.

NOTES

- Panels include a 3 year warranty
- Float switches are included in pricing - 3 for simplex and 4 for duplex.

SCAVENGER CONTROLS

Control Panels for Scavenger 3/10-2 HP Pumps

MODEL	VOLT	PHASE	SIMPLEX PART NO.	LIST PRICE	DUPLEX PART NO.	LIST PRICE
EF 03W, EF04W, EF05W	115	1	08906002	\$560	08906502	\$861
EF05W	208-230	1	08906004	\$597	08906504	\$926
EF 05W-1H	115	1	08906003	\$560	08906503	\$861
	208-230	1	08906005	\$597	08906505	\$926
EF 10W, EF 10W-1H	208-230	1	08906005	\$597	08906505	\$926
EF 10D	208-230-460	3	08906007	\$1,197	08906507	\$1,695
EJ 04W	115	1	08906001	\$560	08906501	\$861
EJ 05W	115	1	08906002	\$560	08906502	\$861
EJ 05W	208-230	1	08906004	\$597	08906504	\$926
EJ 05D-2	208-230-460	3	08906009	\$1,197	08906509	\$1,695
EJ 07W	115	1	08906002	\$560	08906502	\$861
EJ 07W	208-230	1	08906005	\$597	08906505	\$926
EJ 07D	208-230-460	3	08906007	\$1,197	08906507	\$1,695
EJ 10W	208-230	1	08906005	\$597	08906505	\$926
EJ 10D	208-230-460	3	08906007	\$1,197	08906507	\$1,695
EJ 15W	208-230	1	08906006	\$597	08906506	\$926
EJ 15D	208-230-460	3	08906008	\$1,197	08906508	\$1,695
EJ 20W	208-230	1	08906006	\$597	08906506	\$926
EJ 20D	208-230-460	3	08906008	\$1,197	08906508	\$1,695

Scavenger Control panels include the following:

- 1 Compact NEMA 4X fiberglass enclosure.
- 2 Single phase - Magnetic motor contactor to control pump and circuit breaker to provide disconnect and branch circuit protection.
- 3 Three phase - IEC Motor contactor to control pump and motor protective switch for adjustable overload, branch circuit protection and pump disconnect.
- 4 Alternating pump control as well as override should either pump fail. (Duplex only).
Control circuit board provides pump control and alternation.
- 5 A hand-off-auto selector switch is mounted on circuit board.
- 6 A green pump run light mounted on circuit board.
- 7 Float status indicator lights mounted on circuit board (duplex only)
- 8 Control and Alarm power indicator lights mounted on circuit board
- 9 High level indication is provided through a red alarm beacon.
- 10 An alarm horn provides audible indication of high level.
- 11 An exterior alarm test/normal/silence switch is provided.
- 12 A control transformer is included for 230/3/60 and 460/3/60 applications.
- 13 Terminals are provided for connecting the float switches and motor leads into the control panel.
- 14 A high level alarm dry contact is provided
- 15 Controls are UL 508A approved.

NOTES

- Panels for Scavenger Pumps greater than 2HP are found in the QC3 series of panels
- Panels carry a 3 year warranty
- Float switches are included in pricing - 3 for simplex and 4 for duplex.

SCAVENGER and PIR S CONTROLS ADDERS

DESCRIPTION	PRICE	PRICE
	SIMPLEX	DUPLEX
Elapsed Time meter	\$72	\$144
Event (cycle) counter	\$62	\$124
Lightning arrestor	\$215	\$215
30W anti-condensation heater	\$94	\$94
Main disconnect	\$371	\$371
Lead/Lag selector switch	N/A	\$15
TOA (Test/Off/Automatic) switches and pump run lights through door mounted	\$70	\$140
HOA (Hand/Off/Automatic) switches and pump run lights through door mounted	\$57	\$113
Door mounted pump run indicator	\$21	\$41

Ordering Instructions for PIR S residential panels and Scavenger panels

1. Determine your pump motor size, supply voltage, phase and frequency (usually 60 Hz).
2. From the appropriate page, select the row corresponding to the pump model to be used.
3. Select the control part number from the simplex (1 pump) or duplex (2 pumps) column groups.
4. In the event the standard package as described does not contain all options that you require, use the basic control number and price along with the appropriate optional adders as listed above.

Controls are also available in 600 volt three phase with CSA approval. Use 460 volt price and consult factory for part numbers.

QC3 Controls

Ordering Instructions:

1. Determine your pump motor size, supply voltage, phase and frequency (usually 60 Hz).
2. From the appropriate page, select the row corresponding to the pump motor model with which the control is to be used.
3. Select the control part number from the simplex (1 pump) or duplex (2 pumps) column groups.
4. Select either the Basic, Plus, or Advanced control package based on the chart below.
5. In the event the defined option packages do not contain all options that you require, use the basic control part number and price along with the appropriate option numbers and prices to construct the panel you need.
6. Additional options cannot be added to the PLUS or ADVANCED Packages. Options can only be added to BASIC package.

DESCRIPTION	BASIC	PLUS	ADVANCED
NEMA 4X fiberglass enclosure with SS lockable latches.	✓	✓	✓
IEC contactor/overload/circuit breaker (1-PH only)	✓	✓	✓
IEC manual motor protector with adjustable overload (3-PH only)	✓	✓	✓
Start circuit including capacitors, start relay, dropping resistor (1-PH only).	✓	✓	✓
Control transformer to supply 120V control power in the panel (3-PH only).	✓	✓	✓
Primary side of control transformer fuse protection (3-PH only)	✓	✓	✓
Fuse protection for control circuit.	✓	✓	✓
Alternating relay with lead selector switch for Duplex controls.	✓	✓	✓
Hand-Off-Auto switch, 22mm, for each pump.	✓	✓	✓
Green LED cluster pump ON indicator light, 22mm, for each pump.	✓	✓	✓
Sulzer CA461 Leak detection relay	✓	✓	
Red LED cluster seal failure warning light, 22mm, for each pump.	✓	✓	✓
Flashing red high level alarm beacon.	✓	✓	✓
Alarm buzzer with 22mm silence pushbutton	✓	✓	✓
Test/Off/On switch for the high level alarm circuit	✓	✓	✓
High level auxiliary dry contacts.	✓	✓	✓
Elapsed Time meter for each pump		✓	✓
GFCI receptacle with 2 amp fuse		✓	✓
Lightning arrestor		✓	✓
Power Monitor		✓	✓
Lag pump delay		✓	✓
PC242 controller			✓
50W anti-condensation heater			✓
Control circuit breaker			✓
Control power indication			✓
Terminals for all field connections.	✓	✓	✓
UL 508A listing.	✓	✓	✓

Notes

- Simplex panels designed for 3 floats - off, on, high level
- Duplex panels designed for 4 floats - off, lead pump on, lag pump on, high level
- Float switches or level sensing devices are not included in these packages
- Additional features not listed can be included upon quote request
- Panels are UL508a labeled. UL698a available upon request.

QC3 CONTROL PANELS 230/1/60

MOTOR	SIMPLEX			DUPLEX		
	BASIC	PLUS	ADVANCED	BASIC	PLUS	ADVANCED
S10/4W	08936001 \$2,087	08936101 \$2,502	08936201 \$5,689	08936501 \$4,338	08936601 \$4,966	08936701 \$6,420
S20/2W	08936002 \$2,087	08936102 \$2,503	08936202 \$5,689	08936502 \$4,338	08936602 \$4,966	08936702 \$6,420
S26/2W	08936003 \$2,109	08936103 \$2,513	08936203 \$5,781	08936503 \$4,338	08936603 \$4,966	08936703 \$6,463
PE20/6W	08936004 \$2,109	08936104 \$2,524	08936204 \$5,781	08936504 \$4,360	08936604 \$5,027	08936704 \$6,463
PE25/2W	08936005 \$2,109	08936105 \$2,524	08936205 \$5,781	08936505 \$4,382	08936605 \$5,043	08936705 \$6,463
PE35/2W	08936006 \$2,163	08936106 \$2,579	08936206 \$5,781	08936506 \$4,420	08936606 \$5,081	08936706 \$6,463
PE45/2W	08936007 \$2,229	08936107 \$2,688	08936207 \$5,781	08936507 \$4,688	08936607 \$5,342	08936707 \$6,463
PE18/4W	08936008 \$2,109	08936108 \$2,666	08936208 \$5,687	08936508 \$4,382	08936608 \$5,027	08936708 \$6,433
PE28/4W	08936009 \$2,191	08936109 \$2,666	08936209 \$6,026	08936509 \$4,535	08936609 \$5,245	08936709 \$6,944
EJ30W	08936010 \$2,175	08936110 \$2,688	08936210 \$5,917	08936510 \$4,415	08936610 \$5,136	08936710 \$6,890
EJ50W	08936011 \$2,212	08936111 \$2,688	08936211 \$5,917	08936511 \$4,644	08936611 \$5,245	08936711 \$6,890

Notes:

Enclosure Sizes are as follows:

Simplex-Basic = 18in H x 16in W x 10in D

Simplex-Plus = 18in H x 16in W x 10in D

Simplex-Advanced = 24in H x 24in W x 12in D

Duplex-Basic = 24in H x 20in W x 10in D

Duplex-Plus = 24in H x 20in W x 10in D

Duplex-Advanced = 30in H x 24in W x 12in D

QC3 CONTROL PANELS 208/3/60

MOTOR	SIMPLEX			DUPLEX		
	BASIC	PLUS	ADVANCED	BASIC	PLUS	ADVANCED
S10/4, S16/4, S20,2	08936033 \$2,343	08936133 \$3,517	08936233 \$6,281	08936533 \$4,494	08936633 \$5,300	08936733 \$6,896
PE20/6, PE22/4, PE28/2, PE28/4, PE35/2, PE35/4, S30/2	08936034 \$2,343	08936134 \$3,517	08936234 \$6,281	08936534 \$4,494	08936634 \$5,300	08936734 \$7,074
EJ30, PE35/6, PE45/2	08936035 \$2,343	08936135 \$3,517	08936235 \$6,281	08936535 \$4,494	08936635 \$5,315	08936735 \$7,074
PE46/4, PE56/4, EJ50	08936036 \$2,425	08936136 \$3,595	08936236 \$6,335	08936536 \$4,540	08936636 \$5,422	08936736 \$7,118
PE70/2, PE75/4, PE80/2, EJ75	08936037 \$2,425	08936137 \$3,648	08936237 \$6,401	08936537 \$4,588	08936637 \$5,532	08936737 \$7,167
EJ100, PE90/4, PE75/6	08936038 \$2,483	08936138 \$3,698	08936238 \$6,428	08936538 \$4,663	08936638 \$5,570	08936738 \$7,204
PE90/6, PE125/2, PE110/6, PE105/4, PE110/2	08936039 \$2,620	08936139 \$3,723	08936239 \$6,486	08936539 \$5,146	08936639 \$5,782	08936739 \$7,442
PE125/2, PE150/4, PE160/6, PE160/4, PE130/6, PE130/4, PE120/8, PE185/4	08936040 \$2,766	08936140 \$3,793	08936240 \$6,545	08936540 \$5,146	08936640 \$5,825	08936740 \$7,489

Notes:

Enclosure Sizes are as follows:

- Simplex-Basic = 18in H x 16in W x 10in D
- Simplex-Plus = 18in H x 16in W x 10in D
- Simplex-Advanced = 24in H x 24in W x 12in D
- Duplex-Basic = 24in H x 20in W x 10in D
- Duplex-Plus = 24in H x 20in W x 10in D
- Duplex-Advanced = 30in H x 24in W x 12in D

See Ordering Instructions page for description of option packages.

QC3 CONTROL PANELS 230/3/60

MOTOR	SIMPLEX			DUPLEX		
	BASIC	PLUS	ADVANCED	BASIC	PLUS	ADVANCED
S10/4	08936012 \$2,343	08936112 \$3,517	08936212 \$6,281	08936512 \$4,494	08936612 \$5,300	08936712 \$6,896
S16/4, S20/2, PE20/6, PE22/4, PE28/2	08936013 \$2,343	08936113 \$3,517	08936213 \$6,281	08936513 \$4,494	08936613 \$5,300	08936713 \$7,074
PE28/4, S30/2, PE35/4, PE35/6, EJ30	08936014 \$2,343	08936114 \$3,517	08936214 \$6,281	08936514 \$4,494	08936614 \$5,315	08936714 \$7,074
PE45/2, PE45/4, PE46/2, PE46/4	08936015 \$2,425	08936115 \$3,595	08936215 \$6,335	08936515 \$4,540	08936615 \$5,422	08936715 \$7,118
EJ50, PE56/4, EJ75	08936016 \$2,425	08936116 \$3,595	08936216 \$6,335	08936516 \$4,540	08936616 \$5,422	08936716 \$7,118
PE70/2	08936017 \$2,425	08936117 \$3,620	08936217 \$6,293	08936517 \$4,588	08936617 \$5,532	08936717 \$7,167
EJ100, PE80/2, PE90/4	08936018 \$2,425	08936118 \$3,620	08936218 \$6,293	08936518 \$4,588	08936618 \$5,532	08936718 \$7,167
PE90/6, PE75/6, PE100/2, PE105/4	08936019 \$2,483	08936119 \$3,698	08936219 \$6,428	08936519 \$4,663	08936619 \$5,570	08936719 \$7,204
PE125/2, PE110/2, PE110/6, PE130/6, PE130/4, PE120/8	08936020 \$2,620	08936120 \$3,723	08936220 \$6,486	08936520 \$5,146	08936620 \$5,782	08936720 \$7,442
PE150/4, PE160/4, PE170/8, PE160/6, PE185/2, PE185/4, PE200/2	08936021 \$2,766	08936121 \$3,793	08936221 \$6,545	08936521 \$5,146	08936621 \$5,825	08936721 \$7,489

Notes:

Enclosure Sizes are as follows:

Simplex-Basic = 18in H x 16in W x 10in D

Simplex-Plus = 18in H x 16in W x 10in D

Simplex-Advanced = 24in H x 24in W x 12in D

Duplex-Basic = 24in H x 20in W x 10in D

Duplex-Plus = 24in H x 20in W x 10in D

Duplex-Advanced = 30in H x 24in W x 12in D

See Ordering Instructions page for description of option packages.

QC3 CONTROL PANELS 460/3/60

MOTOR	SIMPLEX			DUPLEX		
	BASIC	PLUS	ADVANCED	BASIC	PLUS	ADVANCED
S10/4, S16/4, S20/2,	08936022 \$2,790	08936122 \$3,735	08936222 \$6,679	08936522 \$4,722	08936622 \$5,622	08936722 \$7,426
PE20/6, PE22/4, S30/2, PE28/2, PE35/2, PE28/4	08936023 \$2,790	08936123 \$3,735	08936223 \$6,679	08936523 \$4,722	08936623 \$5,622	08936723 \$7,453
EJ30, PE45/2, PE46/2, PE35/4, PE35/6, EJ50, PE45/4, PE56/4, PE46/4	08936024 \$2,790	08936124 \$3,735	08936224 \$6,679	08936524 \$4,722	08936624 \$5,676	08936724 \$7,453
EJ75, PE75/4, EJ100, PE80/2, PE70/2	08936025 \$2,822	08936125 \$3,767	08936225 \$6,737	08936525 \$4,828	08936625 \$5,782	08936725 \$7,586
PE105/4, PE90/4, PE100/2, PE75/6	08936026 \$2,822	08936126 \$3,767	08936226 \$6,737	08936526 \$4,828	08936626 \$5,782	08936726 \$7,586
PE90/6, PE125/2, PE110/6, PE110/2	08936027 \$2,854	08936127 \$3,809	08936227 \$6,748	08936527 \$4,859	08936627 \$5,845	08936727 \$7,638
PE130/4, PE130/6, PE120/8	08936028 \$2,854	08936128 \$3,809	08936228 \$6,748	08936528 \$4,859	08936628 \$5,845	08936728 \$7,638
PE150/4, PE160/4, PE170/8, PE160/6, PE185/2, PE200/2	08936029 \$2,854	08936129 \$3,830	08936229 \$6,758	08936529 \$4,934	08936629 \$5,862	08936729 \$7,660
PE185/4, PE200/6, PE210/6, PE210/8, PE210/4, PE230/2	08936030 \$3,077	08936130 \$4,031	08936230 \$6,949	08936530 \$5,305	08936630 \$6,313	08936730 \$8,010
PE250/4, PE250/6, PE250/8, PE300/2	08936031 \$3,130	08936131 \$4,085	08936231 \$7,010	08936531 \$5,358	08936631 \$6,471	08936731 \$8,063
PE350/4, PE350/6, PE350/8, PE350/10	08936032 \$3,183	08936132 \$4,138	08936232 \$7,162	08936532 \$5,411	08936632 \$6,525	08936732 \$8,211

Notes:

Enclosure Sizes are as follows:

Simplex-Basic = 18in H x 16in W x 10in D

Simplex-Plus = 18in H x 16in W x 10in D

Simplex-Advanced = 24in H x 24in W x 12in D

Duplex-Basic = 24in H x 20in W x 10in D

Duplex-Plus = 24in H x 20in W x 10in D

Duplex-Advanced = 30in H x 24in W x 12in D

QC3 CONTROL PANEL OPTIONS

INSTRUCTIONS FOR PRICING PANEL OPTIONS

- 1.) Options can only be added to QC3 basic panels. If other combinations of adders are required a custom control panel quote will be required.
- 2.) If at least one category "A" adder is required an additional multiplier of 1.1 will need to be applied to account for the bigger enclosure. As an example, if a QC3 basic panel price is \$3000 and at least 1 category A adder is selected then the base panel price is $\$3000 \times 1.1 = \3300 .
- 3.) If at least three category "B" adders are required an additional multiplier of 1.1 will need to be applied to account for the bigger enclosure. As an example, if a QC3 basic panel price is \$3000 and at least 3 category B adders are selected then the base panel price is $\$3000 \times 1.1 = \3300 .
- 4.) If at least one category "A" adder is required and at least three category "B" adders are required an additional multiplier of 1.2 will need to be applied to account for the bigger enclosure. As an example, if a QC3 basic panel price is \$3000 and at least 1 category A adder and at least 3 category B adders are selected then the base panel price is $\$3000 \times 1.2 = \3600 .
- 5.) These adder prices are all for NEMA 4X fiberglass enclosures. If steel or stainless steel is required please refer to the enclosure adder page.

DESCRIPTION	OPTION NUMBER	ADDER PRICE SIMPLEX	ADDER PRICE DUPLEX
CAT A adders			
Battery backup for alarm system	38	\$509	\$509
Heater, 100 watt with fan & thermostat	54	\$451	\$451
NEMA rated motor starter, size 1	108	\$438	\$876
NEMA rated motor starter, size 2	109	\$773	\$1,545
NEMA rated motor starter, size 3	110	\$1,427	\$2,853
Intrinsically safe float relays	49	\$1,082	\$1,082
Main power disconnect switch, lockable	93	\$255	\$255
Motor overtemp lockout	33	\$272	\$544
CAT B adders			
Control power circuit breaker	63	\$54	\$54
Pump circuit breaker(s) (3-PH only)	92	\$541	\$1,082
Control power ON dry contacts	21	\$80	\$80
Low level alarm dry contacts	23	\$91	\$91
Pump running dry contacts	96	\$80	\$160
Seal failure alarm, dry contacts	20	\$80	\$160
Pump overtemperature, dry contacts	21	\$80	\$161
Starting lag, time delay	58	N/A	\$106
Control power ON indication	04	\$59	\$59
Float switch indication, 3-4 floats	05	\$177	\$177
High level alarm indication	19	\$63	\$63
High temperature indication	12	\$78	\$156
Low wetwell level indication	105	\$122	\$122
Pump failure indication	10	\$137	\$274
Power monitor, 3 phase 230 volt or 460 volt	50	\$228	\$228
Overload reset push button	18	\$80	\$160
Alarm test push button	37	\$68	\$68
Receptacle, GFCI, with 2 amp fuse	57	\$110	\$110
Lightning arrestor, 1 phase	52	\$135	\$135
Lightning arrestor, 3 phase	53	\$325	\$325
Elapsed time meter, pump run	09	\$75	\$149

CONTROL PANEL ENCLOSURE OPTIONS

DESCRIPTION	OPTION NUMBER	PRICE SIMPLEX & DUPLEX
Enclosure Options		
Indoor/Outdoor Corrosion Resistant		
18 x 16 x 10 NEMA 4X stainless steel	66	\$1,391
24 x 20 x 10 NEMA 4X stainless steel	76	\$2,125
24 x 24 x 12 NEMA 4X stainless steel	68	\$2,408
30 x 24 x 12 NEMA 4X stainless steel	71	\$2,691
Indoor/Outdoor Painted Finish		
24 x 20 x 10 NEMA 4X fiberglass	73	\$464
24 x 24 x 12 NEMA 4X fiberglass	78	\$567
30 x 24 x 12 NEMA 4X fiberglass	67	\$989
Indoor/Outdoor Painted Finish		
18 x 16 x 10 NEMA 4/12 steel	79	\$567
24 x 20 x 10 NEMA 4/12 steel	69	\$994
24 x 24 x 12 NEMA 4/12 steel	80	\$1,275
30 x 24 x 12 NEMA 4/12 steel	81	\$1,421

Enclosure type definitions

- NEMA 1** Indoor only. Painted steel exterior. Provides protection from contact with enclosed electrical equipment only. Provides no protection from water, oil, or dust. Sulzer recommends the use NEMA 12 enclosures for NEMA 1 applications. See NEMA 12 description below.
- NEMA 3R** Indoor or Outdoor. Intended for use outdoors. Painted steel exterior with drip shield. Provides protection from falling rain, sleet, and accumulated ice. Non gasketed door. Sulzer mounts all lights and switches on inner swing out dead front door. Alarm light is mounted on the exterior of the enclosure.
- NEMA 4** Indoor or Outdoor. Intended for use outdoors. Painted steel exterior. Provides protection from wind blown dust, rain, and hose directed water. Undamaged by the formation of ice on the enclosure. Gasketed door. Sulzer mounts all lights and switches on inner swing out dead front door. Alarm light is mounted on the exterior of the enclosure.
- NEMA 4X** Indoor or Outdoor. Intended for use outdoors. Corrosion resistant Fiberglass or Stainless Steel exterior. Provides the same protection as the NEMA 4 enclosure, but includes corrosion resistance. ABS mounts all lights and switches on inner swing out dead front door. Alarm light is mounted on the exterior of the enclosure.
- NEMA 12** Indoor only. Painted steel exterior. Provides protection from dust, falling dirt, and dripping non corrosive liquids. Gasketed door. ABS mounts all lights and switches on outer door of enclosure. Type 12 enclosures do not contain an inner dead front door. Can be used in all NEMA 1 applications.

Notes:

Optional enclosures may extend normal delivery time. Consult factory for delivery.

QC3 CONTROL PANEL OPTIONS

Numerical Listing and Detailed Description

Opt #	Option Name	Option Description
4	CONTROL POWER ON INDICATION	A white indicating light illuminates when the control power is on.
5	FLOAT SWITCH INDICATION	Amber lights (3 for simplex, 4 for duplex) are provided to indicate when each float switch is raised.
9	ELAPSED TIME METER	One non-resettable elapsed time meter per pump is provided. Elapsed time meter(s) are six digit displays and indicate total running time to the nearest tenth of an hour.
10	PUMP FAILURE INDICATION	One red indicating light per pump indicates when pump fails to turn on when called for. Indication may be caused by motor overload or motor overtemp in standard panel.
12	HIGH TEMPERATURE INDICATION	A red panel indicating light is provided in addition to high temperature.
17	CYCLE COUNTER	One non-resettable cycle counter per pump. Cycle counter(s) are five digit displays and indicate to the nearest cycle.
18	OVERLOAD RESET PUSH-BUTTON	One through the inner door overload reset push-button per pump is provided. Push-button allows the operator to reset the overload relay without opening the inner deadfront door.
19	HIGH LEVEL ALARM IND.	A red panel indicating light is provided in addition to the standard alarm beacon to indicate a high level alarm. This option should be ordered when a common alarm beacon is necessary to signal a variety of alarms.
20	SEAL FAILURE DRY CONTACTS	One set of un-powered "FORM C" contacts are provided for each pump to signal pump seal failure. These contacts are wired to field terminals for connection by customer.
21	CONTROL POWER ON DRY CONTACTS	One set of un-powered "FORM C" contacts are provided to signal that control power is turned on. These contacts are wired to field terminals for connection by customer.
23	LOW LEVEL ALARM DRY CONTACTS	One set of unpowered "FORM C" contacts are provided to signal that liquid level dropped below the low level float switch. These contacts are wired to field terminals for connection by customer.
31	LOW LEVEL LOCKOUT	This option will stop both pumps when the low level float is reached. Pumps will not be able to restart until a field adjustable reset timer has timed out. A red indicating light will indicate a low level alarm. The alarm beacon will be wired to signal the low level condition.
33	MOTOR OVERTEMP W/ INDICATION & DRY CONTACTS	This option will stop each pump independently upon motor overtemp failure. The pump(s) will not be able to restart until the reset push-button for motor overtemp failure has been depressed. A red indicating light and "FORM C" contacts are also included for each pump. The alarm beacon will also be rewired to the motor overtemp failure logic.

QC3 CONTROL PANEL OPTIONS

Opt #	Option Name	Option Description
37	ALARM TEST PUSH-BUTTON	An alarm test push-button is provided to test the alarm circuit when no alarm condition is present.
38	ALARM BATTERY & CHARGER	A 12 volt DC battery and battery charger are provided so that the alarm circuit may enunciate upon a power outage. The standard beacon will be replaced with a 12 volt DC beacon and if an alarm horn is ordered it will also be 12 volt DC.
49	INTRINSICALLY SAFE FLOAT SYSTEM	Intrinsically safe float control voltages and currents are provided for 3, 4, or 5 floats for simplex or duplex operation.
50	230V 3 PHASE POWER MONITOR	An adjustable power monitor relay prevents the pumps from running when there is a phase loss, reversal, or voltage problem.
51	460V 3 PHASE POWER MONITOR	An adjustable power monitor relay prevents the pumps from running when there is a phase loss, or voltage problem.
52	1 PHASE LIGHTNING ARRESTOR	A lightning arrestor intended to provide protection against lightning for single phase controls is provided.
53	3 PHASE LIGHTNING ARRESTOR	A lightning arrestor intended to provide protection against lightning for three phase controls is provided.
54	100 WATT HEATER W THERMOSTAT	One 100 watt heater with integral thermostat and circulating fan is provided.
57	GFI RECEPTACLE W/2 AMP FUSE	One duplex ground fault protected receptacle protected for 2 amps. Includes transformer. For systems that cannot directly provide 120 volts such as 230 volt 3 phase 3 wire or 460 volt 3 phase systems.
58	TIME DELAY STARTING LAG	Provides adjustable time delay module for starting lag pump. Lag pump will not start simultaneously with lead pump upon power outage and recovery.
63	CONTROL POWER BREAKER	Replaces standard control fuse with circuit breaker mounted on deadfront door.

QC3 CONTROL PANEL OPTIONS

Opt #	Option Name	Option Description
66	18" NEMA 4X STAINLESS STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4X stainless steel enclosure. Swingout deadfront is included. Enclosure dimensions are 18" high x 16" wide x 10" deep.
68	24" NEMA 4X STAINLESS STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4X stainless steel enclosure. Swingout deadfront is included. Enclosure dimensions are 24" high x 24" wide x 12" deep.
69	24" NEMA 4/12 STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4/12 steel enclosure. Swingout deadfront is included. Enclosure dimensions are 24" high x 20" wide x 10" deep.
71	30" NEMA 4X STAINLESS STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4X stainless steel enclosure. Swingout deadfront is included. Enclosure dimensions are 30" high x 24" wide x 12" deep.
73	24" NEMA 4 FIBERGLASS	Replaces standard NEMA 4X fiberglass enclosure with bigger NEMA 4X fiberglass enclosure. Swingout deadfront is included. Enclosure dimensions are 24" high x 20" wide x 10" deep.
78	24" NEMA 4X FIBERGLASS	Replaces standard NEMA 4X fiberglass enclosure with larger NEMA 4X fiberglass enclosure. Swingout deadfront is included. Enclosure dimensions are 24" high x 24" wide x 12" deep.
79	18" NEMA 4/12 STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4/12 steel enclosure. Swingout deadfront is included. Enclosure dimensions are 18" high x 16" wide x 10" deep.
80	24" NEMA 4/12 STEEL	Replaces standard NEMA 4X fiberglass enclosure with larger NEMA 4/12 steel enclosure. Swingout deadfront is included. Enclosure dimensions are 24" high x 24" wide x 12" deep.
81	30" NEMA 4/12 STEEL	Replaces standard NEMA 4X fiberglass enclosure with NEMA 4/12 steel enclosure. Swingout deadfront is included. Enclosure dimensions are 30" high x 24" wide x 12" deep.

QC3 CONTROL PANEL OPTIONS

Opt #	Option Name	Option Description
92	LOCKABLE PUMP CIRCUIT BREAKER(S)	Pump circuit breaker(s) are provided with a means for locking in the off position. Padlock(s) are not included.
93	MAIN POWER DISCONNECT SWITCH, LOCKABLE	A lockable main power disconnect switch is provided to disconnect power to all of the control panel circuitry. Disconnect switch does not disconnect the <i>input</i> power to the control panel, so some terminals within the control panel remain live even with the disconnect in the off position. Padlock(s) are not included.
95	POWER FAILURE DRY CONTACTS	One set of unpowered "FORM C" contacts are provided to signal that power within the control panel has failed. These contacts are wired to field terminals for connection by customer. These contacts can also be used with option 38 to provide a visual and audible indication of a power failure.
96	PUMP RUNNING DRY CONTACTS	One set of unpowered "FORM C" contacts are provided for each pump to signal that the pump is running. These contacts are wired to field terminals for connection by customer.
101	HEATER, 50 WATT SEMICONDUCTOR TYPE	Heater with adjustable thermostat provides temperature control and condensation protection within the control enclosure.
105	LOW WETWELL LEVEL INDICATION	An amber colored light indicates when the wetwell level drops below a level set by the low level float switch. Can be ordered alone or with option 31. Requires one additional float switch.
108	NEMA RATED MOTOR STARTERS, SIZE 1	Standard IEC rated motor starters are replaced with NEMA rated motor starters (with ambient compensated overloads). Use this option for 208/230 volt motors up to 7.5 horsepower, and 460 volt motors up to 10 horsepower.
109	NEMA RATED MOTOR STARTERS, SIZE 2	Standard IEC rated motor starters are replaced with NEMA rated motor starters (with ambient compensated overloads). Use this option for 208 volt motors up to 10 horsepower, 230 volt motors up to 15 horsepower, and 460 volt motors up to 25 horsepower.
110	NEMA RATED MOTOR STARTERS, SIZE 3	Standard IEC rated motor starters are replaced with NEMA rated motor starters (with ambient compensated overloads). Use this option for 208 volt motors up to 25 horsepower, 230 volt motors up to 30 horsepower, and 460 volt motors up to 50 horsepower.