

Aqua Guard[®] Continuous, Self-Cleaning Bar/Filter Screen

Parts & Services 1 888 PARKSON (1-888-727-5766)



		ISSUE POSSIBLE CAUSE		SOLUTION				
	Screen does not start No power at the motor or at the control panel		No power at the motor or at the control panel	Confirm that power is available • Turn disconnect switch and screen selector switch to ON position • Bestart screen				
			Screen selector switch not in AUTO mode	Turn selector switch to HAND mode to confirm that motor is functioning • Turn selector switch to ALITO mode • Confirm that all remote				
				permissive contacts are made • Restart screen				
			Control devices (level sensor, timers, thermostat, etc) used to initiate screen	Check functioning of level measuring device • Repair or replace devices as required • Restart screen				
			are malfunctioning	Check time clock and associated timer settings • Adjust if necessary				
			Control devices used to initiate screen are malfunctioning	Check functioning of thermostat switch • Repair or replace device as required • Restart screen				
			Screen motor overloaded (blown fuses, tripped overloads, tripped current monitor,	Check for screen belt jamming • Remove obstruction, check for screen belt damage, reset controls. and restart screen				
		Solids larger than screen opening passing	tripped thermostats or auto thermals)	Checking for screen belt binding and damage • Adjust screen belt, reset controls, and restart screen				
	2			Motor malfunctioning Repair or replace, rest controls, and restart screen				
				Gear reducer malfunctioning • Repair or replace, reset controls, and restart screen				
	П		Screen Protection switches are tripped (e-stop, zero speed)	Check for obstructions or screen malfunctions • Reset e-stop and restart after confirming that screen is ready to run				
			Side channel seals not contacting channel walls, allowing bypass around the sides	Replace seals • Confirm full contact with channel wall before restarting				
	Π	through screen	of the screen frame	Front seal is damaged or worn, allowing bypass underneath the screen belt • Replace seal • Confirm full contact with screen belt before				
				restarting				
			Screen elements are damaged	Replace screen elements and check condition of drive chains Replace chain links, if necessary				
			Side plates are damaged	Replace side plates				
	9	Excess headloss across the screen	Screen initiation settings not set properly	Adjust time clock and timer settings to allow the screen to run more often (frequency), and for a longer period of time (duration)				
				Adjust actuation point of level measuring devices				
	5		Screen not being cleaned properly	Check operating condition of brush • Adjust position of brush, or replace brush core				
				Check operating condition of spray systems • Confirm correct position of spray pattern • Unclog or replace nozzles • Confirm adequate				
			Caroon anoningo aloggad	Supply pressure and now rate				
			Screen openings clogged	Ciedii Suleeli wilii piessule wasilei				
		Saraan tracking to one side	Chiest has wedged earsen to one side	Commit actual new conditions and compare to design conditions • Remove excess new of solids loading conditions				
			Construction of the state of th	Nemove object and check tracking				
		Reduced corporation volume being	Flow III Chamiler is not uniform across with of chamiler	Week down discharge shute er henner				
		neuuceu screenings volume being discharged out of screen	Collection device backing up screenings	Wash down discharge chute of hopper				
			Screen elements are damaged	Replace screen elements and check condition of drive chains Replace chain links if necessary				
		Notor fails to start	BIOWN TUSES	Replace tuses at least 125% nameplate amperes				
			Uverioad trips	Uneck and reset overload in starter				
			Improper current supply	Check to see that power supplied agrees with motor nameplate and load factor				
			Improper line connections	Check connections with diagram supplied with motor				
			Open circuit in winding or starting switch	Indicated by numming sound when switch is closed Check for loose wiring connections; also see if starting switch inside motor is closed Check to appli the provide the second drive twee frequences and behaviorations				
			Iviecnanical Tallure	Uneck to see it motor and drive turn treely Check bearings and lubrication Indicated by blown fuece a Mater must be must be				
			Short circuited Stator	Indicated by blown luses • Motor must be rewound				
3			Poor stator coll connection	Remove end bells, locate with test lamp				
			Rotor defective	Look for broken bars or end rings				
			Motor may be overloaded	Reduce load				
			If three phase, one phase may be open	Check lines for open phase Check for check singuit, grounded or open conceptor, or connection, replace if necessary				
		Motor atolia		Check for short circuit, grounded or open capacitor, or connection, replace it necessary				
		MOLOF STATIS	Wrong application					
				Neucle load				
				See that hameplate voltage is maintained a check connection				
		Motor runs and then dies down	Power failure	Check for loose connections to line to fuses and to control				
		Motor does not come up to speed						
			Voltage too low at motor terminals because of line drop	Use higher voltage on transformer terminals or reduce load • Check connections				
			Starting load too high	Check load motor is supposed to carry at start				
			Broken rotor bars or loose rotor	Look for cracks near the rings • A new rotor may be required as repairs are usually temporary				
			Open primary circuit	Locate fault with testing device and repair				
		Motor takes too long to accelerate	Excess loading	Reduce load				
			Poor circuit	Check for high resistance				
			Defective squirrel cage rotor	Replace with new rotor				
			Applied voltage too low	Get power company to increase power tap				
		Wrong rotation	Wrong sequence of phases	Reverse connections at motor or at switchboard				
		Motor overheats while running under load	Overload	Reduce load				
			Frame or bracket vents may be clogged with dirt and prevent proper ventilation of motor	Open vent holes and check for a continuous stream of air from the motor				
			Motor may have one phase open	Check to make sure that all leads are well connected				
			Grounded coil	Locate and repair				
			Unbalanced terminal voltage	Check for faulty leads, connections and transformers				
			Shorted stator coil	Repair and then check watt meter reading				
			Faulty connection	Indicated by high resistance				
			High voltage exceeds +10% of nameplate volts	Check terminals of motor with a voltmeter				
	5		Low voltage exceeds -10% of nameplate volts	Check terminals of motor with a voltmeter				
		Malan di seter di seter di	Kotor rubs stator bore	IT not poor machining on brackets, replace worn bearings				
		Motor vibrates after corrections have	iviotor misaligned	Kealign				
			weak support	Balance counting				
			Driven equipment unbalanced	Balance driven equipment				
			Dafective hall hearing					
			Delective ball bearing Rearinge not in line					
			Balancing weights shifted	Rebalance rotor				
			Polyphase motor running single phase	Check for open circuit				
			Excessive end play	Adjust bearing or add washer				
		Unbalanced line current on polyphase	Unequal terminal volts	Check leads and connections				
		motors during normal operation	Single phase operation	Check for open contacts				
		Scraping noise	Fan rubbing air shield	Remove interference				
			Fan striking insulation	Clear fan				
			Loose on bedplate	Tighten holding bolts				
		Hot bearings general	Air gap not uniform	Check and correct bracket fits or bearing				
			Rotor unbalance	Rebalance				
			Bent or sprung shaft	Straighten or replace shaft				
			Excessive belt pull	Decrease belt tension				
			Pulleys too far away	Move pulley closer to motor bearing				
			Pulley diameter too small	Use larger pulleys				
			Misalignment	Correct by alignment of drive				
		Hot bearings sleeve	Oil window in bearing obstructed by dirt	Remove bracket with bearing and clean bearing housing & oil window groves • Renew oil				
			UII too heavy	Use recommended lighter oil				
			UII too light	Use recommended heavier oil				
			loo much end thrust	Reduce thrust induced by drive, or supply external means to carry thrust				
			Badly worn bearing	Replace bearing				
		nut bearings ball	Insumicient grease	initialin proper quantity of grease in dearing				
			Evenes lubricant	Demove on yrease, wash bearings moroughly in kerosene and replace with New grease				
			Excess indition	neuucer quantity or grease, bearing should not be more than 1/2 tilled				
			Uverioaded bearing	Uneux alignment, side & end thrust				
			Broken dall or rough races	Replace bearing, tist clean nousing thoroughly				

PROCEDURE	DAILY	WEEKLY	MONTHLY	QUARTERLY	SEMI-	ANNUALLY	APPLICATION		LUBRICATION		
					ANNUALLY			Screen Drive Motor: Baldor	Exxon Mobil Polyrex EM / Texaco Polystar / Rykon Premium #2 / Pen 2		
General visual inspection	•								Pennzoil Lube / Chevorn SRI		
Clean the screen face and rotating brush	•							Screen Drive Motor: Reliance Electric	Not Applicable (permanently lubricated)		
Clean Interior of screen			•					Screen Gear Reducer:			
Inspect screen drive system			•					Sumitomo SM-Helical Buddybox (B4115DB, B614DB)	Buddybox portion: Shell Alvania EP 00		
Check all fasteners on the unit			•				Ο	Screen Gear Reducer:	Cyclo portion: Shell Alvania No. 2		
Replenish shaft bearings grease			•					Sumitomo SM-Bevel Buddybox (2B12DA, 3B12DA)			
Inspect condition of brush			•					Filter Belt Chain*	Synthetic Dry Film Lubricant Husky #32042 *		
Inspect filter belt assembly			•				B	Drive Shaft Flange Bearing (AG-MN)	Lithium Bass Crasss NI CI #2 / Shall Alvania ED2 / Mahil Mahilluv ED2 /		
Inspect overload mechanism			•				F F	Rotating Brush Shaft Flange Bearings	Elulium Base Grease, NLGI #2 / Shell Alvania EP2 / Mobil Mobiliux EP2 /		
Inspect screen belt tension		Monthly, for the					From Scre	Front Rotating Rail Shaft Take-up Bearings (AG-MN)	EART OF BOUCOFFET 27 DE ENOIGICASE EO EL MEDIZ		
	1st six months		1S Varda	Screen Gear Reducer:				Buddybox portion:			
		Quarterly afterwards						Sumitomo SM-Helical Buddybox (C4145, C614)	Mobil Oil Mobilgear 627, 629 / ChevronTexaco EP Gear		
Inspect spray system				•				Sumitomo SM-Helical Buddybox (D4165DB, D616DA)	Compound 100, 150 Exxon Oil Spartan EP100, EP 150 / Shell Oil		
Flush Screen drive reducer					•			Umala Sumitama SM Raval Ruddubay (2016DA, 2016DA)	Oil 100, 150 / PD Oil Energel CD VD 100, CD VD 150		
Replenish screen motor bearing grease					•				Cyclo portion		
Inspect side seals					•				Shell Alvania EP 2 / Mobil Mobillux EP2		
Perform complete interior inspection						•			Exxon Oil Beacon EP2 / BP Energrease LS-EP NLGI 2		
Check operation of all electrical components						•					
Drain channel and remove accumulated debris						٠					
Check the condition of the grease lines and fittings for wear						•					
Overhaul screen gear reducer						Every 5 years (~10,000 operating		Parks			

U Z	NA	Inspect screen belt tension	Monthly, for the 1st six months Quarterly afterwards				
		Inspect spray system			•		
	5	Flush Screen drive reducer				•	
	H	Replenish screen motor bearing grease				•	
		Inspect side seals				•	
	2	Perform complete interior inspection					•
2		Check operation of all electrical components					•
		Drain channel and remove accumulated debris					•
		Check the condition of the grease lines and fittings for wear					•
		Overhaul screen gear reducer					Every 5 years (~10,000 operating hours)

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ISO 9001:2008 Certified Quality Management System

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