Troubleshooting

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					Failure/Problem	Inspection	Solution
1					**Pump not starting or chocking**		
1.1					Problem in power supply		
1.2	0				Wrong Connection	Please see the instruction manual for connection	Make the proper connection
1.3	0				Improper Input voltage	Check the phase ,input voltage and frequency	
1.4		x			Burning of Coil	Check the insulation from the phase and Earth	Contact technical department
1.5	0	x			No power in one phase	Check the phase with MultiMate for the input current	Connect the phase
1.6	0	x			Damage of capacitor	Visual and physical inspection of the capacitor	Replace the capacitor
1.7	0	x			Residual Current Device	Leakage of water / Damage of Insulation	Contact technical department
1.8	0	x			No power input to Electrical Panel	Check the switch position in the electrical panel	Place the switch in on position.
1.9	0	x			Position of the Float switch	Check the level of the water and the position of the switch	Place the float switch in correct position
					Tripping of Circuit breaker/ Faulty Fuse	Check the Breaker and Fuse	Reset the circuit Breaker / Replace Fuse
1.10					Pump stoppage due to Rise in Current / Rise in Temperature		
1.11	0				Pump capacity not in the working range	Due to high Vibration or High absorbent current	Regulate the Check valve in the discharge
1.12	0				Wrong setting of overload switch	Check the setting of the overload switch	Set/Adjust the switch as mentioned in the name plate
1.13	0				Long Power Cable exceeding 10 mts	Check the current absorbed according to the specification	Use appropriate cable
1.14		x			Wear grinder cutter	Visual inspection	Change the Cutter
1.15	0	x			Frequent start and stop	Count the no of start and stop(should not exceed 15 no/hour)	Set and Adjust the level float switch properly.
1.16	0	x			Mechanical seal-stocking/locking	Pump not in used for long period(more than three months)	Rotate the impeller manually and check for any leakage
1.17	0	x			Obstruction in Impeller housing	Visual inspection and check the free rotation of the impeller	Clear the obstacles inside the impeller casing
1.18	0	x			High Absorbent input current	Check the density of the fluid (for example > 1.2 kg/cm3)	Contact Technical department
2					**Pump working at low capacity**		
2.1	0				Incorrect direction of rotation	Verify the direction of the impeller according to the directional sign	Change the connection of the wire
2.2	0				Air lock inside the impeller housing	Low absorbent current	Take out the pump and put it in an inclined position.
2.3	0				Improper assembling of the coupling	check for the leakage in the coupling	Place the coupling properly
2.4	0				Wrong selection of the pump	Check the loss charge	Contact Technical Department
2.5		x			Clogging of Impeller Housing	Visual inspection and check the free rotation of the impeller	Clear the obstacles inside the impeller casing
2.6		x			Wearing of Hydraulic	Visual inspection of the parts	Replace the worn out parts
2.7		x			breaking of the Shaft	Check the Duty point	Contact the Technical department
2.8		x			Damage or Clogging in pipe line	Visual inspection of the pipe line	Remove clogging or repair the line
2.9	0	x			Non return valve closed	Check the Valve position	Remove the clogging if any.
2.10	0	x			Slip in the impeller	Check the proper rotation direction	Contact Technical Department
2.11	0	x			Wear in the coupling system	Leakage of the water	Replace the coupling system
2.12	0	x			Setting of Wearing	Measure the distance between the wear ring and impeller	The distance should be 0.25 mm
3					**Pump not working properly**		
3.1					High noise / Vibration		
3.2	0				Improper positioning of the pump		Contact Technical Department
3.3	0				Working point near to Shut off point	Check the absorbent current to know the working point	Open the valve
3.4	0				Working point near the maximum capacity	Check the absorbent current to know the working point	Close the valve
3.5	0				Pump placed close to Inlet	Check the position of the pump	Prevent the pump against direct flow.
3.6	0				Different capacity Pump connected parallel.	Inspect the connection	Contact Technical Department
3.7		x			Clogging of Impeller Housing	Visual inspection and check the free rotation of the impeller	Clear the obstacles inside the impeller casing
3.8		x			Bearing wear or damage	Check the noise of the pump	Contact Technical Department
3.9					High Absorbent current		
3.10	0				Incorrect direction of rotation	Verify the direction of the impeller according to the directional sign	Change the connection of the wire
3.11		x			Clogging of Impeller Housing	Visual inspection and check the free rotation of the impeller	Clear the obstacles inside the impeller casing
3.12	0	x			Liquid density too mucht hight ex. > 1,2 Kg/dm3	Verify project design data	Contact Technical Department
3.13	0	x			Supply voltage lower respect label data	Check supply voltage	Supply the equipment with the correct voltage
3.14					Humidity probe alarm switch-on		
3.15	0	x			humidity probe device setting	Check humidity probe setting	Change humidity probe sensibility on control panel
3.16	0	x			twater leakage in oil chamber or motor casing	Visual inspection of the Mechanical seals and cable	oil substitution in oil chamber

O New Installation X Old Installation Warning: All the maintenances must be done by skilled personnel, in respect of the security norms actually in force.