

Troubleshooting

Failure/Problem	Inspection	Solution
1 Pump not starting or chocking		
1.1	Problem in power supply	
1.2	o Wrong Connection	Please see the instruction manual for connection Make the proper connection
1.3	o 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	o x No power in one phase	Check the phase with MultiMate for the input current Connect the phase
1.6	o x Damage of capacitor	Visual and physical inspection of the capacitor Replace the capacitor
1.7	o x Residual Current Device	Leakage of water / Damage of Insulation Contact technical department
1.8	o x No power input to Electrical Panel	Check the switch position in the electrical panel Place the switch in on position.
1.9	o 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	o Pump capacity not in the working range	Due to high Vibration or High absorbent current Regulate the Check valve in the discharge
1.12	o Wrong setting of overload switch	Check the setting of the overload switch Set/Adjust the switch as mentioned in the name plate
1.13	o 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	o 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	o 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	o x Obstruction in Impeller housing	Visual inspection and check the free rotation of the impeller Clear the obstacles inside the impeller casing
1.18	o 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	o Incorrect direction of rotation	Verify the direction of the impeller according to the directional sign Change the connection of the wire
2.2	o Air lock inside the impeller housing	Low absorbent current Take out the pump and put it in an inclined position.
2.3	o Improper assembling of the coupling	check for the leakage in the coupling Place the coupling properly
2.4	o 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	o x Non return valve closed	Check the Valve position Remove the clogging if any.
2.10	o x Slip in the impeller	Check the proper rotation direction Contact Technical Department
2.11	o x Wear in the coupling system	Leakage of the water Replace the coupling system
2.12	o 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	o Improper positioning of the pump	Contact Technical Department
3.3	o Working point near to Shut off point	Check the absorbent current to know the working point Open the valve
3.4	o Working point near the maximum capacity	Check the absorbent current to know the working point Close the valve
3.5	o Pump placed close to Inlet	Check the position of the pump Prevent the pump against direct flow.
3.6	o 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	o 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	o x Liquid density too much high ex. > 1,2 Kg/dm3	Verify project design data Contact Technical Department
3.13	o 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	o x humidity probe device setting	Check humidity probe setting Change humidity probe sensibility on control panel
3.16	o 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.