## Operating Instructions and Service Manual



Troubleshooting Chart		
Problem	Cause	Countermeasures
Rise In Cooling Water Temperature	Excess or inadequate cooling water flow.	Adjust to the specific flow.
	Irregular flow of air.	Improve ventilation.
	Recirculation of air exhausted from tower.	Same as above or install baffles.
	Irregular operation of sprinkler pipes.	Rescale and check for obstructions or refer to section in Operation & Service Manual.
	Improper flow of air.	Adjust the angle of fan blades, if applicable.
	Blocking of the filling.	Clean any and all scale or build-up.
Drop In The Volume of Cooling Water	Blocking of the sprinkler pipe holes.	See Section for Maintenance & Adjustment
	Blocking of strainer mesh.	Remove strainer & clean or replace.
	Drop in water level of water basin.	Adjust the float valve assembly.
	Improper selection of water circulating pump.	Replace pump to meet proper pumping specifications.
Noise and Vibration	Fan blade tips touching the fan stack.	Adjusting the fan mounting.
	Improper mounting of the fan blades.	Correct the blade angle settings.
	Loose bolts.	Tighten loose bolts.
	Shortage of speed reducer oil.	Supply oil up to the level specified.
Excessive Current Draw	Drop in voltage.	Check supply voltage & make sure it remains constant.
	Irregularities in the angles of the fan blades.	Adjust fan blades angles.
	Overload through the excess air flow.	Adjust fan blades angles.
Water Carry Over	Irregular operation of sprinkler pipes.	Adjust the angle of the sprinkler pipes in the sprinkler head.
	Blocking of the filling.	Eliminate blockage at the upper edge of the filling.
	Defective eliminator.	Replace the eliminator.
	Too much circulating water.	Check the flow rates. Make sure they match +/- 20% of nominal flow.