



MAINTENANCE CHECKLIST



PROCEDURE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
1.	Clean pan strainer – monthly or as needed												
2.	Clean and flush pan** – quarterly or as needed												
3.	Check bleed-off valve to make sure it is operative – monthly												
4.	Check operating level in pan and adjust float valve if necessary – monthly												
5.	Check water distribution system and spray pattern – monthly												
6.	Check drift eliminators – quarterly												
7.	Check the fan blades for cracks, missing balancing weights, and vibrations – quarterly												
8.	Check sheaves and bushings for corrosion. Scrape and coat with ZRC - annually												
9.	Lubricate fan shaft bearings* – every 1000 hours of operation or every three months												
10.	Check belt tension and adjust – monthly												
11.	Sliding motor base – Inspect and grease – annually or as needed												
12.	Check fan screens, inlet louvers and fans. Remove any dirt or debris – monthly												
13.	Inspect and clean protective finish – annually - Galvanized: scrape and coat with ZRC - Stainless: clean and polish with a stainless steel cleaner.												
14.	Check water quality for biological contamination. Clean unit as needed and contact a water treatment company for recommended water treatment program** – regularly												
OP ⁻	FIONAL ACCESSORIES:												
1.	Gear Reducer – Check oil level with unit stopped – 24 hours after start-up & monthly												
2.	Gear Reducer/Piping – Do visual inspection for oil leaks, auditory inspection for unusual noises and vibrations – monthly												
3.	Gear Reducer - Replace oil – semi-annually												
4.	Oil Pump – Do visual inspection for leaks and proper wiring – monthly												
5.	Gear Reducer/Coupling – Check alignment of the system – 24 hours after start-up & monthly												
6.	Coupling/Shaft – Inspect flex elements and hardware for tightness, proper torque & crack/deterioration – monthly												

^{*} See maintenance manual for start-up instructions and lubrication recommendations.

** Cooling Towers must be cleaned on a regular basis to prevent the growth of bacteria including Legionella Pneumophila.



MAINTENANCE CHECKLIST (continued)

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OP	TIONAL ACCESSORIES:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
7.	Heater Controller – Inspect controller and clean probe ends – quarterly												
8.	Heater – Inspect junction box for loose wiring and moisture – one month after start-up and semi-annually												
9.	Heater – Inspect elements for scale build-up – quarterly												
10.	Electronic Water Level Controller – Inspect junction box for loose wiring and moisture – semi-annually												
11.	Electronic Water Level Controller – Clean probe ends of scale build-up – quarterly												
12.	Electronic Water Level Controller –Clean inside the standpipe – annually												
13.	Solenoid Make-up Valve – Inspect and clean valve of debris – as needed												
14.	Vibration Switch (mechanical) – Inspect enclosure for loose wiring and moisture – one month after start-up and monthly												
15.	Vibration Switch – Adjust the sensitivity – during start-up and annually												
16.	Sump Sweeper Piping – Inspect and clean piping of debris – semi-annually												
17.	Water Level Indicator – Inspect and clean – annually												
DUI	DURING IDLE PERIODS:												
1.	Two or More Days: Energize motor space heaters – or run motors for 10 minutes twice daily												
2.	Few Weeks: Run gear reducer for 5 minutes – weekly												

1.	Two or More Days: Energize motor space heaters – or run motors for 10 minutes twice daily						
2.	Few Weeks: Run gear reducer for 5 minutes – weekly						
3.	Several Weeks: Completely fill gear reducer with oil. Drain to normal level prior to running.						
4.	One Month or longer: Rotate motor shaft/fan 10 turns – bi-weekly						
5.	One Month or longer: Megger test motor windings – semi-annually						

Seasonal Shut-Down Checklist

When the system is to be shut down for an extended period of time, the following services should be performed.

- 1. The evaporative cooling unit cold water basin should be drained.
- The cold water basin should be flushed and cleaned with the suction strainer screens in place.
- The suction strainer screens should be cleaned and re-installed.
- The cold water basin drain should be left open.
- 5. The fan shaft bearings and motor base adjusting screws should be lubricated. This should also be performed if the unit is going to sit idle prior to start up.
- 6. The water make up valve needs to be closed. All water make-up, overflow and drain piping needs to be drained, if not heat traced and insulated.
- The finish of the unit should be inspected. Clean and refinish as required.
- The fan bearings and motor bearings need to be turned at least once a month by hand. This can be accomplished by making sure the unit's disconnect is locked and tagged out, and grasping the fan assembly, rotating it several turns.
- Energize motor space heaters.

See Fan & Pump Manufacturer Maintenance and long term storage instructions for more detailed instructions.