



## START-UP SHEET Cooling Tower

**Job Name** \_\_\_\_\_ **Job Number** \_\_\_\_\_

**Job Address** \_\_\_\_\_

### Section 5: Equipment Description

<b>Spec. #:</b>	<b>Submittal #:</b>	<b>P&amp;ID / Dwg #:</b>
<b>Area Served:</b>		

Data	Design	Actual On Site
Unit Tag #		
Manufacturer		
Model #		
Serial #		
Tower Fan Motor Manufacturer		
Model #		
Serial #		
Tower Pump Motor Manufacturer		
Model #		
Serial #		
Belts		
Belts		

### Section 6: Equipment Pre-Installation Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
6.2	Nameplate data matches vendor specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.3	All parts are received.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.4	No visible signs of damage, leak, or defective parts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Comments/  
Observations** \_\_\_\_\_

**Performed By  
(Therma)**

**Reviewed By  
(Owner/Representatives)**

Print Name	Signature	Date



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Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
6.5	Verify electrical service for correct voltage, current and thermal overload protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.6	Operational and Maintenance (O&M) manual is available in the field.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.7	Start-up technicians have reviewed factory start-up procedures in the O&M manual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.8	If Therma provided Variable Frequency Drives (VFDs) that are controlling fans and pumps, complete manufacturer's VFD start up forms.				

### Section 7: Installation Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
7.2	Unit is installed level.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.3	Tag # is attached to the unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.4	Service clearance is adequate for maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.5	Inlet air screens, fans, eliminators, heat exchanger sections, and sump strainers are installed and clean.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.6	Shipping blocks and materials are removed from fan section.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.7	Water sump is clean.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.8	Water treatment is provided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.9	Sheaves are aligned.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.10	Multi speed motor is installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.11	Fan hub, sheaves and bearing setscrews are tight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.12	Each fan belt tension is correct.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/  
Observations

Performed By  
(Therma)

Reviewed By  
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Print Name	Signature	Date



## START-UP SHEET

### Cooling Tower

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
7.13	Motor and blower bearings are lubricated.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.14	Spray nozzles and water level controls are installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.15	Fan shaft bearing angular alignment is correct and bolts are tight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.16	Vibration isolators are installed and adjusted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.17	All electrical connections are secure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.18	All access panels and covers are in place.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.19	Isolation valves are installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

#### Section 8: Operational Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
8.2	Unit vibration is acceptable.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.3	Each fan rotation is correct.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.4	Each pump rotation is correct.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.5	Water level make-up valve is operating correctly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.6	Check tower for leaks.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.7	Coupling assembly needs alignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.8	Record final data.				
8.9	Add water treatment per specifications.				
8.10	Record start up operating parameters below (If multiple components, including fans and pumps are part of the unit, record those information in the Supplementary Form, FN-8.028.2 or FN-8.028.3).				

Comments/  
Observations

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(Therma)

Reviewed By  
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Print Name	Signature	Date



## START-UP SHEET

### Cooling Tower

#### Record Start Up Operating Parameters

Data	Design	Actual On Site
Tower Inlet Temperature		
Tower Outlet Temperature		

#### Water Treatment Use

Water Treatment Used	Amount	Initial Levels

**End of Section**

Comments/  
Observations

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Performed By  
(Therma)

Reviewed By  
(Owner/Representatives)

Print Name	Signature	Date