

## Domestic Water Heater Construction Checklist

<b>Project:</b>	
<b>Date:</b>	
<b>Tag:</b>	
<b>Building:</b>	
<b>Location:</b>	

### Submittal / Approvals

**Submittal.** The above equipment and systems integral to them are complete and ready for functional testing. The checklist items are complete and have been checked off only by parties having direct knowledge of the event, as marked below, respective to each responsible contractor. This construction checklist is submitted for approval, subject to an attached list of outstanding items yet to be completed. A Statement of Correction will be submitted upon completion of any outstanding areas. None of the outstanding items preclude safe and reliable functional tests being performed.      **List attached.**

Mechanical Contractor	Date	Controls Contractor	Date
Electrical Contractor	Date	Plumbing Contractor	Date
TAB Contractor	Date	General Contractor	Date

Construction checklist items are to be completed as part of startup & initial checkout, preparatory to functional testing.

- This checklist does not take the place of the manufacturer's recommended checkout and startup procedures or report.
- Contractors assigned responsibility for sections of the checklist shall be responsible to see that checklist items by their subcontractors are completed and checked off.

**Approvals.** This filled-out checklist has been reviewed. Its completion is approved with the exceptions noted below.

Project Engineer	Date	Owner's Representative	Date

**DIVISION 1 – GENERAL REQUIREMENTS**
**Section 01 91 00.13d – Domestic Water Heater Construction Checklist**

Domestic Water Heater Information						
Make			Model Number			
Serial Number			Gallons			
Recovery Rate			GPM		Delta T	
Fuel	Gas	<input type="checkbox"/>	Electric	<input type="checkbox"/>	Steam	<input type="checkbox"/>
Recirculating Pump Information						
Make			Model Number			
Serial Number			GPM		Head	
Volts/Phase		Function		Service Area		
Motor Hp		Motor Eff		RPM		Amps
Comments:						

Associated Checklists					
Plumbing Piping	<input type="checkbox"/>	Plumbing Fixtures	<input type="checkbox"/>	Other	<input type="checkbox"/>
Other	<input type="checkbox"/>	Other	<input type="checkbox"/>	Other	<input type="checkbox"/>
Comments:					

Requested documentation submitted	Rec'd	Comments
Manufacturer's cut sheets	<input type="checkbox"/>	
Performance data (pump curves, coil data, etc.)	<input type="checkbox"/>	
Installation and startup manual and plan	<input type="checkbox"/>	
O&M manuals	<input type="checkbox"/>	
Sequences and control strategies	<input type="checkbox"/>	
Comments:		

Installation Checks			
Check if Acceptable; Provide comment if unacceptable	NA	Comment	
<b>General</b>			
Installation is per manufacturers instructions	<input type="checkbox"/>	<input type="checkbox"/>	
Manufacturers recommended spare parts are provided	<input type="checkbox"/>	<input type="checkbox"/>	
Equipment label permanently affixed	<input type="checkbox"/>	<input type="checkbox"/>	
Pump lubricated	<input type="checkbox"/>	<input type="checkbox"/>	
Pump turns freely	<input type="checkbox"/>	<input type="checkbox"/>	
Pumps in place and properly supported	<input type="checkbox"/>	<input type="checkbox"/>	
Pipes are supported independently of the pump	<input type="checkbox"/>	<input type="checkbox"/>	

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Installation Checks			
Check if Acceptable; Provide comment if unacceptable		NA	Comment
Seismic anchoring installed and functional where applicable (non-short circuiting)	<input type="checkbox"/>	<input type="checkbox"/>	
Isolation valves and piping specialties installed	<input type="checkbox"/>	<input type="checkbox"/>	
Pressure / temperature relief valves installed per specification	<input type="checkbox"/>	<input type="checkbox"/>	
Shaft seal is leak free	<input type="checkbox"/>	<input type="checkbox"/>	
Pump detail checked against the drawings and all devices, gages and appurtenances are in place	<input type="checkbox"/>	<input type="checkbox"/>	
Insulation installed per requirements	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical and Controls			
Power disconnect is located within site of the unit it controls and labeled	<input type="checkbox"/>	<input type="checkbox"/>	
All electric connections tight	<input type="checkbox"/>	<input type="checkbox"/>	
Grounding installed for components and unit	<input type="checkbox"/>	<input type="checkbox"/>	
Safeties installed and operational	<input type="checkbox"/>	<input type="checkbox"/>	
Starter overload breakers installed and correct size	<input type="checkbox"/>	<input type="checkbox"/>	
All control devices and wiring complete	<input type="checkbox"/>	<input type="checkbox"/>	
Control system interlocks connected and functional	<input type="checkbox"/>	<input type="checkbox"/>	
Installation per manufacturer's instructions	<input type="checkbox"/>	<input type="checkbox"/>	
Pump rotates in the correct direction	<input type="checkbox"/>	<input type="checkbox"/>	
Sensors and Gages			
Temperature and pressure gages and sensors installed	<input type="checkbox"/>	<input type="checkbox"/>	
Piping gages, DDC and associated panel temperature and pressure readouts match.	<input type="checkbox"/>	<input type="checkbox"/>	

**Sensor and Actuator Calibration**

All field-installed sensors and gages, and all actuators (dampers and valves) on this piece of equipment shall be calibrated. All test instruments shall have had a certified calibration within the last 12 months: **Y/N**\_\_\_\_\_. Sensors installed *in* the unit at the factory with calibration certification provided need not be field calibrated.

Sensor or Actuator Tag & Location	Location OK	1 <sup>st</sup> Gage or BAS Value	Instrument Measured Value	Final Gage or BAS Value	Pass Y / N

**Comments:**

