

QC Plumbing-Commercial Gas Domestic Water Heaters Checklist

Section 22.34.36

i Commercial Gas Domestic Water Heaters addressing installation, integration, and safe operation of related assemblies and systems for reliable facility performance. Scope emphasizes piping, testing, heater, service, with field verification confirming compliance with performance, safety, and quality standards.

Heater type installed is a commercial gas unit covered by this section and matches approved submittal and equipment schedule; manufacturer, model, fuel, and vent type verified by nameplate photo.

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Observations

Commercial gas-fired storage units comply with ANSI Z21.10.3/CSA 4.3, direct-vent storage units comply with ANSI Z21.10.1/CSA 4.1, and finned-tube units comply with ANSI Z21.13/CSA 4.9, as applicable to the selected equipment.

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Observations

Tank, boiler, or storage assembly construction and working-pressure rating match specified type and approved submittal, including ASME-code construction where indicated; stop-work on any unlabeled or mismatched pressure vessel.

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Observations

Wetted components and tank linings in potable-water service comply with NSF 61 and NSF 372 where specified; lining extends into fittings and outlets.

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Observations

Required factory-installed appurtenances are present and undamaged, including anode rod, dip tube where applicable, drain valve, insulation, jacket, and heat-trap fittings where specified.

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Observations

Burner and ignition arrangement match fuel service and approved submittal; automatic ignition devices comply where specified, and safety controls including high-temperature limit and low-water cutoff where applicable are installed and functional.

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Observations

Combination temperature-and-pressure relief valve is installed with relieving capacity at least equal to heater input, pressure setting below heater working-pressure rating, and sensing element extending into storage tank; stop-work before startup if valve tag data do not match.

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Observations

Gas shutoff valve, gas pressure regulator where required, and automatic gas valve are installed in the correct sequence and ratings match available gas service and approved submittal.

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Observations

Venting components, draft hood, direct-vent assembly, power-vent interlock, and automatic damper where specified match the listed heater type and manufacturer arrangement; no unsupported field substitutions.

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Observations

Heater mounting condition matches drawings and spec: concrete base, stand, bracket, skids, or floor as indicated; anchorage installed and service clearances maintained for operation and removal.

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Observations

Piping connections include required heat traps, dielectric fittings, and coordinated domestic-water and gas piping connections; piping arrangement preserves access for service and maintenance.

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Observations

Final leak test and operational test pass with no leaks; controls and safeties are tested and adjusted, damaged or malfunctioning components replaced, and test and inspection reports filed to closeout record; stop-work on any failed test or unsafe startup condition.

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Observations