

WEIL-McLAIN

CGt
Gas-Fired
Water Boiler

an ISO 9001 Certified Company



CGt

GAS BOILER WITH TANKLESS HEATER

Rating: 94,000 BTUH NET

Compact design

The CGt is ideal for tight spaces — kitchens, utility rooms, alcoves, closets, stairwells. Its efficient design yields a small profile and minimum possible clearances. And its built-in tankless hot water heater eliminates the need for a separate water heater, saving even more space.

Built-in tankless heater

The CGt's integral tankless domestic water heater provides a single appliance for space heating and domestic hot water needs. Though fully enclosed, the heater is easily accessible through the boiler jacket front door. And the heater gasket surface extends in front of the interior jacket panel for clear visibility.

Cast iron sections / elastomer seals

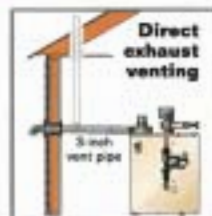
CGt boilers use cast iron sections, proven for durability and long life. Weil-McLain boilers have often provided 35 years or more of reliable service.

Weil-McLain captured seal — Modern elastomer sealing rings in the port openings ensure a permanent water-tight seal and provide section flexibility for thermal expansion and contraction.

Integrated control module

Designed by Weil-McLain, the CGt control module uses a powerful microprocessor to monitor and sequence all boiler operations. Indicator lights show operation conditions and streamline troubleshooting. And plug-in wire harnesses speed and simplify wiring and service.

Venting flexibility



Direct exhaust venting

Direct exhaust venting uses the boiler's induced draft fan to "push" flue products out the vent. The boiler uses inside air for combustion. Vent pipe is 3-inch type AL29-4C® and can be routed through a side wall or vertically through the roof. Direct-exhaust-vented CGt boilers are classified Category III (pressurized vent and flue gases hot enough to avoid excessive condensation).



Natural draft venting

Natural draft venting (chimney-draft venting) uses the draft created by a chimney or vertical vent to "pull" flue products out the vent. The boiler uses inside air for combustion. Vent pipe connecting to the chimney or vent is 5-inch type B or corrosion-resistant metal. Natural-draft-vented CGt boilers are classified Category I (negative vent pressure and flue gases hot enough to avoid excessive condensation).

High-grade stainless steel burners



Made entirely of high-grade stainless steel, CGt burners are specially engineered for maximum efficiency. Their large venturi and precision port design yield ideal fuel/air mixing. Their construction and design ensure longer life, quieter operation and exceptional combustion.



Ratings



DOE



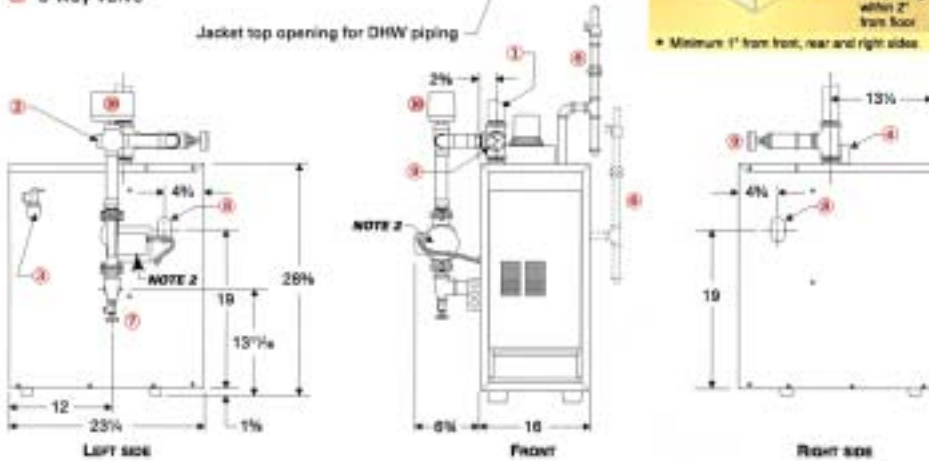
Equipment

Boiler model number	DOE Heating capacity	Input	Output	Net I=B=R ratings	Boiler water content	DOE Seasonal efficiency	Direct exhaust vent size	Chimney draft vent size
	Btuh (Note 1)	Btuh	Btuh	(Note 2)	Gallons	% AFUE	(Note 3)	
CGI-PIN	108,000	133,000	108,000	94,000	3.1	81.0	3"	5"
Tankless heater. Connections 3/4" NPT I=W=H Intermittent Draw Rating = 2.6 GPM (40 - 140°F with 200°F in boiler)								
Notes	<p>1. Based on standard test procedures prescribed by the United States Department of Energy.</p> <p>2. Net I=B=R ratings are based on net installed radiation of sufficient quantity for the requirements of the building and nothing need be added for normal piping and pickup. Ratings are based on a piping and pickup allowance of 1.15. An additional allowance should be made for unusual piping and pickup loads.</p> <p>3. Direct exhaust CGI boilers require special venting, consistent with Category III boilers. Use only the vent materials and methods specified in this manual. Chimney draft vented CGI boilers may use type B vent or other materials suitable for venting Category I boilers.</p>							

Dimensions

- ① Supply connection, 1 1/4" NPT (note 1)
- ② Return connection, 1" NPT (note 1)
- ③ Relief valve, 3/4" NPT
- ④ 1/2" NPT to expansion tank/air vent
- ⑤ 3" Diameter vent connection
- ⑥ Gas supply piping
- ⑦ Drain valve
- ⑧ Gas supply entrance (top or side)
- ⑨ Pressure/temperature gauge
- ⑩ 3-way valve

ALL DIMENSIONS IN INCHES



Note 1: Boiler supply connection (to tee) is 1 1/4" NPT. Return connection (to 3-way valve port) is 1" NPT copper tube.

Note 2: Boiler circulator, 3-way valve, piping and trim are shipped loose for field assembly. Circulator must be mounted on return line as shown in this manual.

Standard Equipment

- Factory fire test
- Two-piece jacket top panel
- Insulated extended steel jacket
- Cast iron sections with built-in air separator
- Radiation plates
- Steel base
- Integrated boiler control module with intermittent electronic ignition system and indicator/diagnostic lights
- Inducer assembly
- Flue gas collector/transition assembly
- Combination gas valve for 24 v
- Wiring harness
- 3-way valve & piping tree components
- Air pressure switch
- Ambient temperature switch
- High-grade stainless steel burners
- Tankless heater and controls
- 40 VA transformer
- Electrical junction box
- Rollout thermal fuse element
- High temperature limit control
- Circulator
- Thermostatic mixing valve (3/4" sweat union connections)
- 30 PSIG ASME relief valve
- Combination pressure-temperature gauge
- Drain valve

Additional Equipment

- CGI AL29-4C[®] vent starter (use when direct-exhaust venting boiler)
- Expansion tank package
- Weil-McLain 5- & 10-year Homeowner Protection Plan
- Gas conversion kit — natural to propane (#510-811-925)



3-way valve

3-way valve for domestic priority

If the tankless heater low limit senses boiler water is too cool to provide domestic water from the tankless coil, the 3-way valve diverts all of the hot water flow from the boiler back to the return, dedicating all available heat for domestic hot water.

Thermostatic mixing valve for domestic hot water

Supplied with the boiler, the thermostatic mixing valve helps to maintain a constant domestic hot water temperature, mixing the hot water output from the coil with fresh cold water fill.



Thermostatic mixing valve

In the interest of continual improvements in product and performance, Weil-McLain reserves the right to change specifications without notice.



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