



CONSTRUCTION PERMIT APPLICATION

019-003878

Applicant Completes: Sections I, II, III (optional), IV, VI, and VII

I. IDENTIFICATION

1. Proposed Work Site at: 251 Chambersbridge Rd.
2. Name of Owner in Fee: DR. Richard Pearson
Tel. [REDACTED] e-mail [REDACTED]
Address [REDACTED] Brick NJ 08723
3. Ownership in Fee: Public _____ Private _____
4. Principal Contractor: Four Point Refrigeration Tel. (732) 899 6704
Address 3140 Rt 88 Pt. Pleasant NJ e-mail [REDACTED]
License No. OR, if new home, Builder Reg. No. 1364400878300 Exp. Date 12/31/09
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
Federal Emp. ID No. 221925256 FAX: () _____
5. Architect or Engineer _____ Contact _____
Address _____ e-mail _____
Tel. () _____ FAX: () _____
6. Responsible Person in Charge once Work has Begun Greg Mulgrew ✓
Tel. (732) 899 6704 FAX: () _____

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$ <u>100</u>		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Elevator Devices			
6. Subtotal			
7. Less 20% for State Plan Review	\$ <u>4</u>		
8. Subtotal			
9. State Permit Surcharge Fee			
10. Subtotal			
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$ <u>144</u>		

VI. BUILDING/SITE CHARACTERISTICS

1. Number of Stories _____
2. Height of Structure _____ ft.
3. Area — Largest Floor _____ sq. ft.
4. New Building Area _____ sq. ft.
5. Volume of New Structure _____ cu. ft.
6. Max. Live Load _____
7. Max. Occupancy Load _____
8. If Industrialized Building: State Approved _____ HUD _____
9. Total Land Area Disturbed _____ sq. ft.
10. Flood Hazard Zone _____
11. Base Flood Elevation _____ ft.
12. Wetlands yes _____ no _____

IIa. PROPOSED WORK

- ☐ Minor Work ☐ New Building ☐ Addition ☐ Demolition
☐ Repair ☐ Alteration ☐ Renovation ☐ Reconstruction
☐ Asbestos Abat. -Subch. 8 ☐ Lead Hazard Abatement ☐ Radon Remediation ☐ Annual Permit

IIb. SUBCODES

(Check all that apply)

- ☐ Building
☐ Electrical
☐ Plumbing
☐ Fire Protection
☐ Elevator

FOR OFFICE USE ONLY (Optional)

Est. Cost	Plans Rec'd	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
	<u>10</u>	<u>10/22/09</u>		<u>10-27-09</u>	<u>AS</u>			
			<u>10-27-09</u>		<u>AS</u>	<u>10-27-09</u>		<u>2</u>
				<u>10-28-09</u>	<u>AS</u>			

TOTAL COST

III. PLAN REVIEW (optional)

DO YOU WANT:

1. ☐ Partial Releases
2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

1. ☐ Elevators/Escalators/Lifts/
Dumbwaiters/Moving Walks
2. ☐ High Pressure Boilers
3. ☐ Pressure Vessels
4. ☐ Refrigeration Systems
5. ☐ Cross-Connections/Backflow Preventers
6. ☐ Hazardous Uses/Places of Assembly
7. ☐ Sprinklers

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group: _____
3. Change in Use Group, Indicate Former: _____
4. No. of dwelling units: All Units Income-restricted
Before Construction _____
After Construction _____
Net Gain or Loss _____

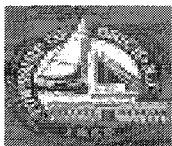
B. NON-RESIDENTIAL (primary use)

1. State Specific Use: _____
2. Use Group: _____
3. Change in Use Group, Indicate Former: _____

C. MIXED USE -List secondary use(s):

D. Construction Classification:

8. ☐ Smoke Control Systems in Open Wells
9. ☐ Underground Storage Tanks
10. ☐ Swimming Pools, Spas and Hot Tubs



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723

Date Issued 1/24/2017
Control Number C-09-003878
Permit Number 09-2773
Permit Issue Date 11/6/2009
Certificate Number 09-2773

Certificate

Construction Code Division

(Certificate of Approval)

Identification

Work Site Location: 251 CHAMBERS BRIDGE RD. , NJ Block: 702 Lot: 12 Qual: _____
Owner in Fee: PEARSON, RICHARD E & MARJORIE M.
Owner Address: _____
Telephone: _____
Contractor: FOUR POINT REFRIGERATION CO INC
Address: 3140 ROUTE 88 PT PLEASANT BEACH NJ 08742 - 2884
Telephone: (732) 899-6704 Fax: _____
License Number or Builders Registration Number: 13VH00878300 16535 Federal Emp. Number: 221925256

Home Warranty Number: _____

Type of Warranty Plan: ☐ State ☐ Private

Use Group: B Construction Classification: _____

Maximum Live Load: 0 Maximum Occupancy Load: 0

Description of Work/Use: REPLACEMENT BOILER

Certificate Comments:

☐ **Certificate of Occupancy**

This serves notice that said building or structure has been constructed in accordance with the New Jersey Uniform Construction Code and is approved for occupancy.

☒ **Certificate of Approval**

This serves notice that the work completed has been constructed or installed in accordance with the New Jersey Uniform Construction Code and is approved. If the permit was issued for minor work, this certificate was based upon what was visible at the time of inspection.

☐ **Certificate of Continued Occupancy**

This serves notice that based on a general inspection of the visible parts of the building there are no imminent hazards and the building is approved for continued occupancy.

☐ **Temporary Certificate of Compliance**

The following conditions must be met no later than or the owner will be subject to fine or order to vacate:

This certificate has an expiration date of:

Conditions to be met:

☐ **Certificate of Clearance - Lead Abatement 5:17**

This serves notice that based on written certification, lead abatement was performed as per NJAC5:17 to the following extent.

- ☐ Total removal of lead-based paint hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Clearance - Asbestos Abatement**

This serves notice that based on written certification, asbestos abatement was performed to the following extent.

- ☐ Total removal of asbestos hazards in scope of work
☐ Partial or limited time period (years); see file

☐ **Certificate of Compliance**

This serves notice that said potentially hazardous equipment has been installed and/or maintained in accordance with the New Jersey Uniform Construction Code and is approved for use until

☐ **Temporary Certificate of Occupancy**

The following conditions must be met no later than: or the owner will be subject to fine or order to vacate: This certificate has an expiration date of:

Conditions to be met:

Construction Official

Date Printed: 1/24/2017

U.C.C. F260 (rev. 08/05)

Fee: \$0.00

Check Number: _____

Collected By: _____

Page 1

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. ☐ I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. ☐ I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.ix:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. ☐ I further certify that I will perform or supervise the following work:

C.1. ☐ Building C.2. ☐ Fire Protection

I further certify that I will perform the following work:

C.3. ☐ Electrical C.4. ☐ Plumbing

- D. ☐ I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION (to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

☒ Check if contractor.

Agent Name Four Point Refrigeration

Address 3140 R+88

Point Pleasant NJ. 08742

Telephone (732) 899-6704

Signature [Signature]

☐ LEAD HAZARD ABATEMENT: Include Homeowner or Building Owner Affidavit as per N.J.A.C. 5:17.

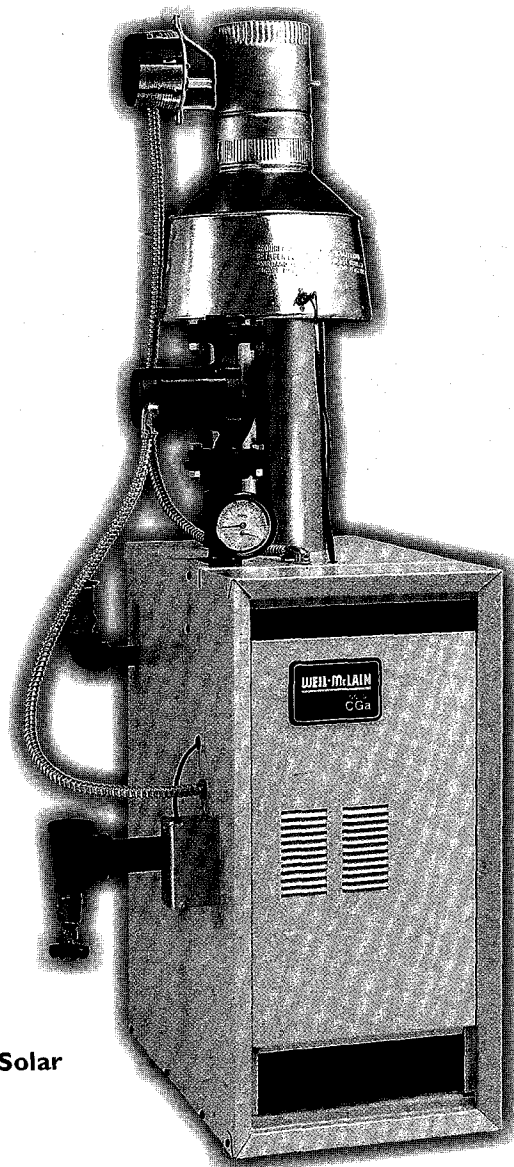
WEIL-McLAIN

an ISO 9001 Certified Company

GOLD

CGa

**GAS BOILER
for
Natural Draft
Venting**



Water Net Ratings:
38,000 to
177,000
Btu/Hr.

Point Heating, Cooling, & Solar

3140 Route 88

Point Pleasant, NJ 08742

732-899-6704

www.4pointHVAC.com

■ **Easy to Install and Service**

■ **High Efficiency**

■ **Made with Weil-McLain Quality**

Applications:

- Residential
- Multiple Boilers
- Schools and Other Institutions

**FOUR POINT REFRIGERATION
HEATING & COOLING CO., INC.**
3140 Route 88
POINT PLEASANT, NEW JERSEY 08742
(732) 899-6704

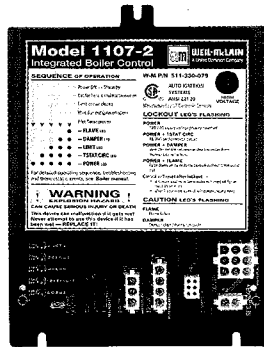
Indirect-fired
Water Heating
• Radiant Heating

... And Much More

Weil-McLain Control Module and Ignition Control (PID only)

The control module has:

- five indicator lights — power, thermostat & circulator, limit, damper, and flame — that show proper operation and make troubleshooting easy without complicated add-on wiring.
- plug-in connectors that attach only one way to assure mistake-proof wiring.



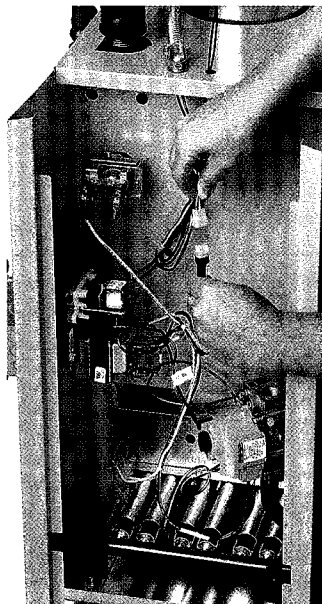
The control module responds to signals from the room thermostat and boiler limit control to operate the boiler circulator, pilot burner, gas valve, and damper. The module controls all ignition, operating and safety-related functions. In addition, its microprocessor continually checks itself 60 times each second. If a situation such as electrical "noise" or low voltage is encountered, the control module restarts and retries, eliminating nuisance lockouts.

And Weil-McLain control module designs assure newer controls will always fit.

Convenient Servicing

The front top jacket panel and front door are easy to remove allowing access to the base assembly, burners and controls for servicing.

... and by simply removing the back half of the top jacket panel, the collector hood, radiation plates, and the flueways are exposed for easy cleaning.



Stainless Steel Burners

Stainless steel burners provide fixed primary air ... no air adjustment is required. These burners are designed to provide exceptional flame stability with natural gas or propane for quieter operation, longer life and improved combustion.

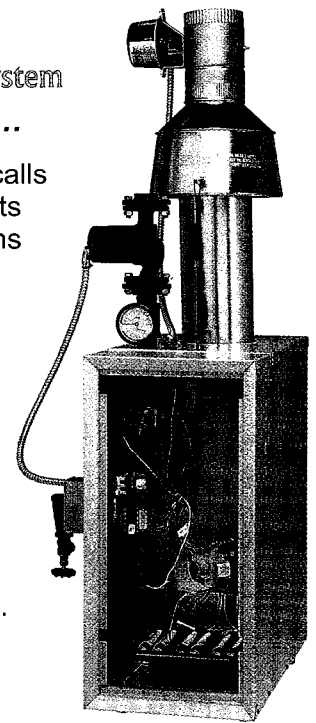
CGa-SPD

Standing Pilot Control System

How the boiler works ...

When a room thermostat calls for heat, the circulator starts and the vent damper begins to open. After about 15 seconds, the vent damper is proven and the main gas valve opens to ignite the burners.

When the room thermostat is satisfied, the circulator stops, the gas valve closes and the damper is closed in approximately 15 seconds.



CGa-PID

Electronic Pilot Control System

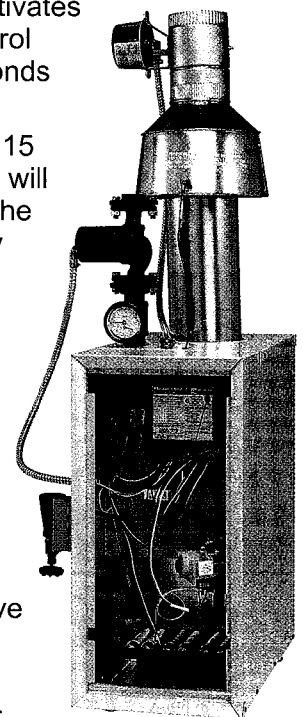
How the boiler works ...

When a room thermostat calls for heat, the control module starts the system circulator and activates the vent damper to open. When the vent damper has opened, the control module opens the pilot valve and activates pilot ignition spark. The control module allows up to 15 seconds to establish pilot flame.

If flame is not sensed within 15 seconds, the control module will turn off the gas valve, flash the flame lights and immediately start a new cycle. This will continue indefinitely until pilot flame is established or power is interrupted. Once pilot flame is proven, the control module opens the gas valve to allow main burner flame.

When the room thermostat is satisfied, the control module turns off the gas valve and deactivates the vent damper to close.

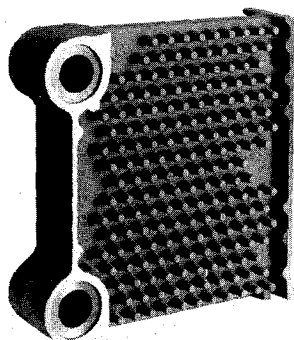
The control module indicator lights show normal sequence when the lights are on steady. When a problem occurs, the control module flashes a combination of lights to indicate the most likely reason for the problem.



Features ... Advantages ... Benefits

- **Weil-McLain Control Module and Ignition Control.** Designed for Weil-McLain ... mistake-proof wiring ... diagnostic indicator lights.
- **Compact design.** Saves valuable living space. Boiler is only 28 inches high, 23 inches deep.
- **Stainless steel burners.** For quieter ignition, longer life, and improved combustion.
- **Wiring harness.** Plug-in connectors that attach only one way to assure mistake-proof wiring for installation and component replacement.
- **Easy power hook-up.** J-box located on outside of boiler with pre-stripped wires.
- **Convenient servicing.** Accessible controls ... control module with diagnostic indicator lights ... simplified wiring ... vertical flueways ... top cleaning.
- **Factory-tested.** Every boiler is tested at the factory to assure reliable operation.
- **Improved parts kits.** Parts furnished in convenient kits.
- **Limited lifetime warranty.** Covers cast iron sections.
- **Multiple boiler systems.** Use two or more high-efficiency CGa boilers in place of one large-capacity boiler to meet the space-heating requirements of larger buildings.
- **Homeowner Protection Plan.** Covers labor and all Weil-McLain supplied parts for 5 or 10 full years. Available through participating installers.

Design Advantages



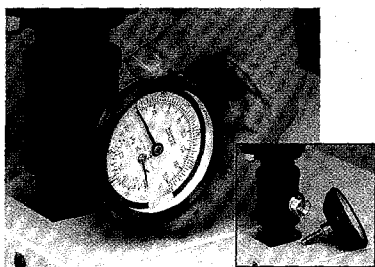
Cast Iron Sections with Elastomer Sealing Rings

Boiler sections are made of durable cast iron for strength, efficiency and long life. It's not uncommon for a Weil-McLain cast iron boiler to last 35 years or more.

The heat pins in the vertical flue passages cause the hot gases to swirl about, covering the entire surface of each section for maximum heat transfer. Radiation plates further increase heat transfer for maximum efficiency.

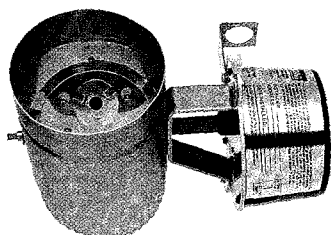
Modern elastomer sealing rings in the port openings assure a permanent water-tight seal. The flexibility and elastic memory of these seals (unlike metal push nipples) prevent leaks caused by thermal expansion and contraction.

A special high-temperature sealant between boiler sections assures tightness from gas leakage in the block.



Temperature & Pressure Gauge

All CGa boilers come with a large-faced temperature and pressure gauge, which installs in a tee in the boiler supply on the top of the boiler. Every T & P gauge comes with a spring-loaded immersion well that provides for easy installation and replacement without draining any water from the boiler or system. By installing the gauge in the system supply flow, a more accurate reading is provided. Also, the location of the gauge and the larger face provide for easy monitoring of boiler temperature and pressure.



Automatic Vent Damper

A tested and approved automatic vent damper with removable plug is furnished as standard equipment with the **SPDN**, **SPDL** and **PIDN** models. The damper prevents heat from escaping up the chimney to increase efficiency and save fuel when the boiler is not operating. A simple plug-in wiring harness assures mistake-proof wiring.

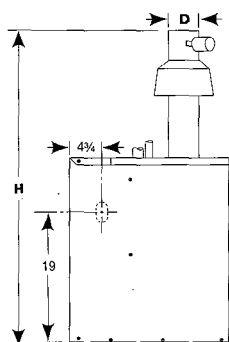
Ratings



Boiler Model (1)	Input MBH (2)	DOE Heating Capacity MBH (2)	Net I=B=R Water Ratings MBH (3)	DOE Seasonal Efficiency Percent (AFUE)			Approx. Shipping Weight (Lbs)	Boiler Water Content (Gal)	Chimney Size
				SPDN	SPDL	PIDN			
CGa-25	52	44	38	81.5	83.3	84.0	200	1.5	4" I.D. x 20'
CGa-3	70	59	51	81.6	83.7	84.0	200	1.5	4" I.D. x 20'
CGa-4	105	88	77	81.7	83.7	84.0	240	2.1	5" I.D. x 20'
CGa-5	140	117	102	81.8	83.7	83.5	280	2.7	6" I.D. x 20'
CGa-6	175	146	127	81.9	83.6	83.2	325	3.3	6" I.D. x 20'
CGa-7	210	175	152	82.0	83.6	83.0	370	3.8	7" I.D. x 20'
CGa-8	245	204	177	82.1	83.6	82.7	425	4.4	7" I.D. x 20'

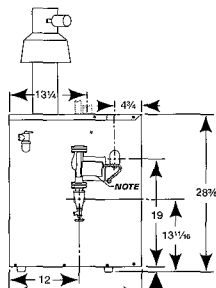
Notes: (1) Add "SPD" for boiler with standing pilot; "PID" for boiler with electronic ignition system. For SPD models, add "N" for natural gas, "L" for propane (propane not available for PID).
 (2) Based on standard test procedures prescribed by the United States Department of Energy.
 (3) Net I=B=R 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 pick-up. Ratings are based on a piping and pick-up allowance of 1.15. An additional allowance should be made for unusual piping and pick-up loads.
 CGa boilers are C.S.A. design certified for installation on combustible flooring. Tested for 50 psi working pressure.

Dimensions

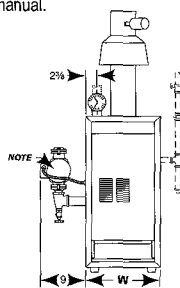


RIGHT SIDE

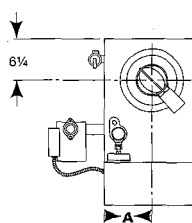
NOTE:
 Boiler circulator is shipped loose. Circulator may be mounted on either boiler supply or return piping. See dimension chart for pipe size of circulator flange provided.



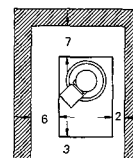
LEFT SIDE



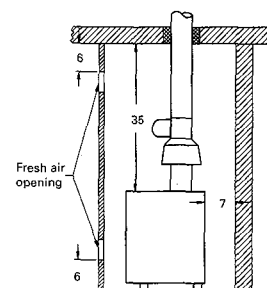
FRONT



TOP VIEW



TOP VIEW



SIDE ELEVATION

Boiler Model	Dimensions Inches				Supply Piping In. (1)	Return Piping In. (1)	Nat or LP Gas Connection Size Inches	Crate Dimensions (Outside Measurements - In.)		
	A	D	W	H				Length	Width	Height
CGa-25	5	4	10	45 3/4	3/4	3/4	1/2	27	27 1/2	31 1/2
CGa-3	5	4	10	52 3/4	1	1	1/2	27	27 1/2	31 1/2
CGa-4	6 1/2	5	13	54 3/4	1	1	1/2	27	27 1/2	31 1/2
CGa-5	8	6	16	57 7/8	1	1	1/2	30	27 1/2	31 1/2
CGa-6	9 1/2	6	19	60 7/8	1 1/4	1 1/4	1/2	33	27 1/2	31 1/2
CGa-7	11	7	22	62 1/8	1 1/4	1 1/4	3/4	36	27 1/2	31 1/2
CGa-8	12 1/2	7	25	64 7/8	1 1/2	1 1/2	3/4	42	27 1/2	31 1/2

Notes: (1) Circulator flange supplied with boiler is same size as recommended pipe size. For supply and return boiler tapping size, see installation manual.

Standard and Additional Equipment

Standard Equipment:

Factory Tested
 Two-Piece Top Jacket Panel
 Insulated Extended Steel Jacket
 Cast Iron Sections with Built-in Air Separator
 Radiation Plates
 Vertical Draft Hood
 Automatic Vent Damper
 Combination Gas Valve for 24 Volt
 Wiring Harness
 Non-Linting Pilot Burner
 Stainless Steel Burners
 Electrical Junction Box
 Rollout Thermal Fuse Element
 High-Limit Temperature Control
 Circulator (when ordered)
 Spill Switch

30 PSI ASME Relief Valve (boiler sections tested for 50 PSI working pressure)
 Combination Pressure-Temperature Gauge
 Drain Valve

HIGH EFFICIENCY MODEL - SPD

Constant Burning, Thermally-Supervised Pilot System

Thermocouple
 Combination Relay Receptacle and 40VA Transformer
 Plug-in Circulator Relay

HIGHEST EFFICIENCY MODEL - PID

Integrated Boiler Control Module with Intermittent Electronic Ignition System & Indicator / Diagnostic Lights
 40VA Transformer
 Plug-in Connector and Wiring

Additional Equipment:

Taco 110 Circulator
 B&G 100 Circulator
 Expansion Tank Package (expansion tank, fill & check valve, auto air vent and fittings):
 #109 - sizes 25 thru 5; #110 - sizes 6 thru 8.
 Shipped in separate carton.
 W-M 5 & 10 Year Homeowner Protection Plan
 W-M Indirect-fired Water Heaters
 W-M Maxiflo® Pool Heaters
 W-M Radiant Heating Products
 W-M Baseboard Units

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



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Weil-McLain
 500 Blaine Street
 Michigan City, IN 46360-2388



ELECTRICAL SUBCODE
TECHNICAL SECTION



NEA

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 710 Lot 12 Qualification Code _____
Work Site Location 251 Chambersbridge Road
Owner In Fee: DR. Richard Pearson

Tel. () _____
Address _____
Contractor: 454 MICHAEL ELECTRIC Tel. () _____
Address 41 River Place Brick NJ e-mail _____
Contractor License No. 8513 Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
Federal Emp. ID No. 22-3127724 FAX: () _____

B. ELECTRICAL CHARACTERISTICS

Use Group Present _____ Proposed _____
[] Pole/Pad # _____ [] Temporary [] Other _____
Building Occupied as _____ Utility Co. _____
Est. Cost of Elec. Work \$ 300.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[X] No Plans Required (0-22-29AS)
[] Partial - Underslab Utilities Approved
Date: _____ Approved by: _____
[] Electric Plans Approved
Date: _____ Approved by: _____
Joint Plan Review Required:
[] Bldg. [] Plumb. [] Fire. [] Elev.
SUBCODE APPROVAL for PERMIT
Date: _____
Approved by: _____
SUBCODE APPROVAL for CERTIFICATE
[] CO [] CCO [] CA
Date: _____
Approved by: _____

C. CERTIFICATION IN WED-OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
[X] Licensed Elec. Contractor [] Certif'd Landscape Irrigation Contr. [] Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK
Replacement of Hot Water Boiler

Date Received 09-27-73
Control # _____
Date Issued 11-6-09
Permit # _____

QTY.	SIZE	ITEMS	FEES (Office Use Only)
		Lighting Fixtures	
		Receptacles	
		Switches	
		Detectors	
		Light Poles	
		Motors—Fract. HP	
		Emergency & Exit Lights	
		Communications Points	
		Alarm Devices/F.A.C. Panel	
TOTAL NUMBERS			\$
		Pool Permit/with UV Lights	
		Storable Pool/Spa/Hot Tub	
		KW Elec. Range/Receptacle	
		KW Oven/Surface Unit	
		KW Elec. Water Heater	
		KW Elec. Dryer/Receptacle	
		KW Dishwasher	
		HP Garbage Disposal	
		KW Central A/C Unit	
		HP/KW Space Heater/Air Handler	
		KW Baseboard Heat	
		HP Motors 1/+ HP	
		KW Transformer/Generator	
		AMP Service	
		AMP Subpanels	
		AMP Motor Control Center	
		KW Elec. Sign/Outline Light	

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____

COMMERCIAL



PLUMBING SUBCODE TECHNICAL SECTION



Date Received
Control #
Date Issued
Permit #

09-27723
11-6-09

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 102 Lot 12 Qualification Code _____
Work Site Location 251 Chambersbridge Rd.
Owner if Plumbing & Heating
Address 731 Oakwood Rd Point Pleasant NJ 08742
Tel (732) 904-2887 FAX (_____) _____
Contractor License No. 10582
Federal Emp. No. 201-816813

B. PLUMBING CHARACTERISTICS

Use Group _____ Present _____ Proposed _____
Building Sewer Size _____ Public Sewer _____ Private Septic _____
Water Service Size _____ Public Water _____ Private Well _____
Est. Cost of Plumbing Work \$ 2000.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW	INSPECTIONS	Dates (Month/Day)	Initial
☐ No Plans Required	Type:	Failure	Approval
Joint Plan Review Required:	Slab		
☐ Building ☐ Electric	Rough		
☐ Fire ☐ Elevator	Water		
☒ Plumbing Plans Approved	Sewer		
Date: <u>10-23-09</u>	Fixtures		
Approved by: _____	Gas Equipment		
SUBCODE APPROVAL	Gas Piping		
☐ CO ☐ CCO ☐ EA	LP Gas Tank		
Date: <u>12-23-09</u>	Fuel Oil Piping		
Approved by: _____	Solar		
	TCO		

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

Applicant's Signature/Contractor's Seal and Signature
[] Licensed Plumbing Contractor [] Exempt Applicant

D. TECHNICAL SITE DATA (List of all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
	Water Closet	\$ _____
	Urinal/Bidet	\$ _____
	Bath Tub	\$ _____
	Lavatory	\$ _____
	Shower	\$ _____
	Floor Drain	\$ _____
	Sink	\$ _____
	Dishwasher	\$ _____
	Drinking Fountain	\$ _____
	Washing Machine	\$ _____
	Hose Bibb	\$ _____
	Water Heater	\$ _____
	Fuel Oil Piping	\$ _____
	Gas Piping	\$ _____
	LP Gas Tank	\$ _____
	Steam Boiler	\$ _____
	Hot Water Boiler	\$ <u>140,000</u>
	Sewer Pump	\$ _____
	Interceptor/Separator	\$ _____
	Backflow Preventer	\$ _____
	Greasetrap	\$ _____
	Sewer Connection	\$ _____
	Water Service Connection	\$ _____
	Stacks	\$ _____
	Other	\$ _____
	Other	\$ _____

Administrative Surcharge	\$ _____
Minimum Fee	\$ _____
State Permit Surcharge Fee	\$ _____
TOTAL FEE	\$ _____

COMMERCIAL

FOR REPLACEMENT FURANCE

Submit b.t.u. input & output of both new & old units.

OLD B.T.U. _____ Input 140,000 Output 117,000

NEW B.T.U. _____ Input 140,000 Output 117,000

And/Or

Heat loss for new Unit.

***If you do not have old b.t.u. and new b.t.u. of units,
you will have to submit a Heat Loss.

***If the New Unit B.T.U. are less than the Old Unit B.T.U.
you will have to submit a Heat Loss.

+++++ We also will need a

****Copy of the brochure for the furnace.

****Chimney Certification



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: [REDACTED]

CC:

RE: Plumbing Subcode
Block: 702 Lot: 12 Qual:
251 CHAMBERS BRIDGE RD.
Permit Number: Control Number: C-09-003878
Last Submit Date: Tuesday, October 27, 2009

Date: Tuesday, October 27, 2009

Dear PEARSON, RICHARD E & MARJORIE M.,

The following comments were made during the Plan Review process:
submit b.t.u. input&output of both new&old units or heat loss for new unit

Sincerely,

Robert Wennlund, Subcode Official

Called 10-28-09
Contractor
732-899-
6704
Fax #
732-899-
8399

1410-

Four Point Refrigeration
3140 12+88
Point Pleasant NJ.

Update for
251 Chambers bridge Rd.
Brick NJ.
BTU inputs for new & old
units
Old Hydrotherm Boiler - 140,000
New - weil-mcain Boiler - 140,000



CONSTRUCTION PERMIT

11-6-09
Date Issued
Control # C-09-003878
Permit # 09-2775

IDENTIFICATION Block: 702 Lot: 12
Work Site Location: 251 CHAMBERS BRIDGE RD. NJ
Owner in Fee PEARSON, RICHARD E & MARJORIE M.
Telephone: [REDACTED]
Contractor FOUR POINT REFRIGERATION CO INC
Address 3140 ROUTE 88 PT PLEASANT BEACH NJ 08742 - 2884
Telephone: (732) 899-6704
Lic. No. or Bldrs. Reg. No. 13VH00878300
Federal Employee No. 221925256

Is hereby granted permission to perform the following work:

- ☐ BUILDING ☒ PLUMBING ☐ LEAD HAZARD ABATEMENT
☒ ELECTRICAL ☐ FIRE PROTECTION ☐ DEMOLITION
☐ ELEVATOR DEVICES ☐ ASBESTOS ABATEMENT (Subchapter 8 only) ☐ OTHER

DESCRIPTION OF WORK:

REPLACEMENT BOILER

Note: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$2,300

Construction Official

Date 10-30-09

U.C.C. F170
equiv (rev 8/03)

1 WHITE - INSPECTOR

2 CANARY - OFFICE

3 PINK - TAX ASSESSOR

4 GOLD - APPLICANT

PAYMENTS (Office Use Only)

Building	\$0
Electrical	\$40
Plumbing	\$100
Fire Protection	\$0
Elevator Devices	\$0
Other	\$0.00
DCA Training Fee	\$4
CO Fee	
Other	\$0
Total	\$144
Check No.	8530
Cash	\$0
Credit	\$0
Collected By	

REQUIRED INSPECTIONS

Construction work must be inspected in accordance with the State Uniform Construction Code Regulations N.J.A.C. 5:23-2.18. This agency will carry out such periodic inspections during the progress of work as are necessary to insure that the work installed conforms with the requirements of the Uniform Construction Code.

The owner or other responsible person in charge of work must notify this agency when work is ready for any required inspections specified below. Requests for inspections must be made at least 24 hours prior to the time the inspection is desired. Inspections will be performed within 10 business days of the time for which they are requested. The work must not proceed in a manner which will preclude the inspection until it has been made and approval granted.

- ☐ Required inspections for all subcodes for one- and two-family dwellings are as follows:

1. The bottom of footing trenches before placement of footings, except that in cases of pile foundations, inspections shall be made in accordance with the requirements of the building subcode.
2. Foundations and all walls up to grade level prior to back filling.
3. All structural framing, connections, wall and roof sheathing and insulation; electrical rough wiring, panel and service installation; rough plumbing. The framing inspection shall take place after the rough electrical and plumbing inspections and after the installation of the heating, ventilation and /or air conditioning duct system. The insulation inspection shall be performed after all other subcode rough inspections and prior to the installation of any interior finish material.
4. Installation of all finished materials, sealings of exterior joints, plumbing piping, trim and fixtures; electrical wiring, devices and fixtures; mechanical systems equipment.

#2773
ELECTRIC \$40.00
PLUMBING \$100.00
DCA \$4.00
CHECK \$144.00
MAIL SERV.002

Additional required inspections for all subcodes of construction, for other than one- and two-family dwellings, are fire suppression systems, heat producing devices and Barrier Free subcode accessibility, if applicable.

- ☐ Required special inspections. The applicant by accepting the permit will be deemed to have consented to these requirements:

- ☐ A final inspection is required for each applicable subcode area before a final Certificate of Occupancy or Approval may be issued. The final inspections include the installation of all interior and exterior finish materials, sealing of exterior joints, mechanical system and other required equipment; electrical wiring, devices and fixtures; plumbing pipes, trim and fixtures; tests required by any provision of the adopted subcodes, Barrier Free accessibility, if applicable; and verification of compliance with NJAC 5:23-3.5, "Posting structures".

- ☐ A complete copy of released plans must be kept on the job site.

If you do not understand any of this information, please ask.



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: [REDACTED] CC:

RE: Plumbing Subcode
Block: 702 Lot: 12 Qual:
251 CHAMBERS BRIDGE RD.
Permit Number: Control Number: C-09-003878
Last Submit Date: Tuesday, October 27, 2009

Date: Tuesday, October 27, 2009

Dear PEARSON, RICHARD E & MARJORIE M.,

The following comments were made during the Plan Review process:
submit b.t.u. input&output of both new&old units or heat loss for new unit

Sincerely,

Robert Wennlund, Subcode Official

Called 10-28-09
Contractor
732-899-
6704
for #
732-899-
8399

Resubmit
10/29/09
[Signature]

**** Transmit Conf. Report ****

P.1

Oct 28 2009 9:09

Telephone Number	Mode	Start	Time	Page	Result	Note
7328998399	NORMAL	28, 9:09	0'25"	1	* O K	



Brick Township
401 Chambersbridge Rd
Brick, NJ 08723
(732) 262-1027

Subcode Official Review

To: [REDACTED] CC:

RE: Plumbing Subcode
Block: 702 Lot: 12 Qual:
251 CHAMBERS BRIDGE RD.
Permit Number: Control Number: C-09-003878
Last Submit Date: Tuesday, October 27, 2009

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Dear PEARSON, RICHARD E & MARJORIE M.,

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Sincerely,

Robert Wennlund, Subcode Official

Called 10-28-09
Contractor
732-899-
6704
Fax #
732-899-
8399



FIRE PROTECTION SUBCODE
TECHNICAL SECTION



A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block _____ Lot _____ Qualification Code _____

Work Site Location 251 Chambersbridge Rd.

Owner in Fee: DR. Richard Pearson

Tel. _____ e-mail _____

Addre _____

Contractor: Four Point Refrigeration Tel. (732) 8946704

Address 3140 Rt 88 e-mail _____

Point Pleasant NJ. 08942

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____

Fire Protection Equipment, NJ Div of Fire Safety Installer No. _____

Fire Alarm Contractor No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. 281925356 FAX: () _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____ Fuel Storage Tank: _____

Constr. Class: Present _____ Proposed _____ Fuel Type: [] Flammable or [] Combustible

Heating System: [] New OR [] Modification to Existing Fire Alarm System: [] New or [] Existing

Fuel Type: ☒ Gas [] Oil [] Electric [] Solar Fire Suppression/Standpipe System: _____

Other _____ [] New or [] Existing

Location: _____ Location of Main Control Valve: _____

Total Cost of Fire Protection Work \$ 300.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW

[] No Plans Required

[] Partial - Underslab Utilities Approved

Date: 11/28/04 Approved by: DR

[] Fire Protection Plans Approved

Date: _____ Approved by: _____

Joint Plan Review Required: _____

[] Bldg. [] Elec. [] Plumb. [] Elev.

SUBCODE APPROVAL FOR PERMIT

Date: 10/28/04

Approved by: OS

SUBCODE APPROVAL FOR CERTIFICATE

[] CO [] CCO [] CA

Date: _____

Approved by: _____

C. CERTIFICATION IN LIEU OF OATH
I hereby certify that I am the (agent, owner, or) record and am authorized to make this application. _____
Applicant's Signature/Contractor's Signature
[] Certified Contractor [] Exempt Applicant

Date Received
Control #

Date Issued
Permit #

D. TECHNICAL SITE DATA
DESCRIPTION OF WORK:

Replacement of 1 Boiler

Water Supply Source _____
Method of Alarm/Suppression System Supervision _____

Flammable/Combustible Tanks _____

Alarm Systems _____

[] System _____

[] 110v Interconnected _____

[] CO Detectors/110v _____

Alarm Devices (i.e., smoke, heat, pulls, water/flow) _____

Supervisory Devices (i.e., tamper, low/high air) _____

Signaling Devices (i.e., horns, strobes, bells) _____

Other Devices _____

TOTAL _____

Suppression Systems

Fire Pump _____ GPM Type _____

Dry Pipe Alarm Valves _____

Pre-action Valves _____

Sprinkler Heads (Dry and Wet) _____

Standpipes _____

Pre-engineered Systems

Wet Chemical _____

Dry Chemical _____

CO₂ Suppression _____

Foam Suppression _____

FM200 Suppression _____

Other _____

Other Systems

Kitchen Hood Exhaust System _____

Smoke Control System _____

Fuel-Fired Appliances ☒ Gas [] Oil [] Solid _____

Fireplace Venting/Metal Chimney _____

Administrative Surcharge \$ _____

Minimum Fee \$ _____

State Permit Surcharge Fee \$ _____

TOTAL FEE \$ _____



CHIMNEY CERTIFICATION FOR REPLACEMENT OF FUEL FIRED EQUIPMENT

BLOCK _____ LOT _____ QUALIFICATION CODE _____ PERMIT # _____

WORK SITE ADDRESS 251 Chambersbridge Rd.

Applicant Brick Vet Hospital

Certifying Individual _____ Company Four Point Refrigeration

Address 251 Chambersbridge Rd. Brick NJ 08723

Street City State Zip Code

Tel. (732) 477 9440

Check the Appropriate Box

Type of Replacement:

- ☐ Oil to Gas Conversion
☒ Gas Appliance Replacement
☐ Oil to Oil Replacement
☐ Other _____

Existing Vent/Chimney:

- ☐ B Label Vent
☐ L Label Vent
☒ Masonry Chimney – Tile Lined
☐ Flexible Liner
☐ Power Vent/Exhauster
☐ Other _____

PLEASE SIGN ONE OF THE FOLLOWING CERTIFICATION STATEMENTS

CERTIFICATION

For Oil to Gas Conversions:

I hereby certify that the chimney/vent is free and clear of obstruction and is substantially clean of residue from its previous use serving an oil appliance. I further certify that the chimney/vent is appropriately lined and sized for the appliance being installed

Signature _____

Date _____

Oil to Oil or Gas to Gas Replacements:

I hereby certify that the existing chimney/vent is free and clear of obstruction. I further certify that the existing chimney/vent is appropriately lined and sized for the appliance being installed.

Signature _____

Date 10/20/09

Certification Not Submitted:

I choose not to submit a certification. I understand that I will be required to be present for the inspection to remove and reinstall the chimney vent connector.

Signature _____

Date _____

Direct Vent Appliance:

No certification required:

Signature _____

Date _____

THIS FORM MUST BE RETURNED TO THE CODE ENFORCEMENT OFFICE PRIOR TO FINAL INSPECTION.

NOT AN
ELECTRICIAN'S
OR PLUMBER'S
LICENSE

State Of New Jersey
New Jersey Office of the Attorney General
Division of Consumer Affairs

THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs

HAS REGISTERED

Four Point Refrigeration Co., Inc.
Harold H. Johnson
3140 Route 88
Pt Pleasant Bch NJ 08742-2844

FOR PRACTICE IN NEW JERSEY AS A(N): Home Improvement Contractor

12/03/2008 TO 12/31/2009
VALID

13VH00878300
LICENSE/REGISTRATION/CERTIFICATION #

Signature of Licensee/Registrant/Certificate Holder

DIRECTOR

P.O. Box 46016
Newark, NJ 07101

PLEASE DETACH HERE
IF YOUR LICENSE/REGISTRATION/
CERTIFICATE ID CARD IS LOST
PLEASE NOTIFY:

Division of Consumer Affairs

New Jersey Office of the Attorney General
Division of Consumer Affairs
THIS IS TO CERTIFY THAT THE
Division of Consumer Affairs
HAS REGISTERED
Four Point Refrigeration Co., Inc.
Home Improvement Contractor

NOT AN ELECTRICIAN'S OR PLUMBER'S LICENSE

12/03/2008 TO 12/31/2009

VALID

13VH00878300

License/Registration/Certificate #

DIRECTOR



WEIL-McLAIN

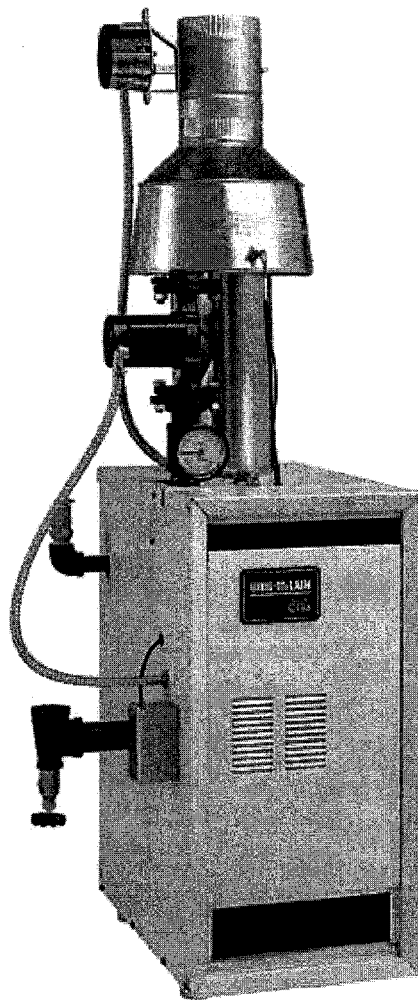
Without compromise | 1881 |

GOLD CGa

Gas-Fired Water Boilers

Boiler Manual

- Installation
- Maintenance
- Startup
- Parts



WARNING

This manual must only be used by a qualified heating installer/service technician. **Before installing**, read all instructions, including this manual, the burner manual and any related supplements. Perform steps in the order given. Failure to comply could result in severe personal injury, death or substantial property damage.

Part No. 550-101-009/0107



4 Gas piping

Connect gas supply piping to boiler

1. Remove jacket front panel and refer to **Figure 19** to pipe gas to boiler.
 - a. **Install drip leg** at inlet of gas connection to boiler. Where local utility requires drip leg to be extended to the floor, use appropriate length of pipe between cap and tee.
 - b. **Install ground joint union** for servicing, when required.
 - c. **Install manual shutoff valve** in gas supply piping outside boiler jacket when required by local codes or utility requirements.
 - d. **In Canada** — When using manual main shutoff valve, it **must be identified** by the installer.
2. **Support piping** with hangers, not by boiler or its accessories.
3. **Purge all air** from gas supply piping.
4. Before placing boiler in operation, **check boiler and its gas connection for leaks**.
 - a. **Close manual main shutoff valve** during any pressure testing at less than 13" w.c.
 - b. **Disconnect boiler and gas valve from gas supply piping** during any pressure testing greater than 13" w.c.

WARNING

Do not check for gas leaks with an open flame — Use bubble test. Failure to use bubble test or check for gas leaks can cause severe personal injury, death or substantial property damage.

5. **Use pipe dope compatible with propane gases**. Apply sparingly only to male threads of pipe joints so that pipe dope does not block gas flow.

WARNING

Failure to apply pipe dope as detailed above can result in severe personal injury, death or substantial property damage.

Natural Gas:

1. Refer to **Table 4** for pipe length and diameter. Base on rated boiler input (divide by 1,000 to obtain cubic feet per hour). **Table 4** is only for gas with **specific gravity 0.60, with a pressure drop through the gas piping of 0.30" w.c.** For additional gas pipe sizing information, refer to ANSI Z223.1 (or B149.1 or B149.2 for Canadian installations).
2. Inlet pressure required at gas valve inlet:
 - Maximum: 13" w.c.
 - Minimum: 5" w.c.
 - Manifold gas pressure: 3.5" w.c.
3. Install 100% lockup gas pressure regulator in supply line **if inlet pressure exceeds 13" w.c.** Adjust for 13" w.c. maximum.

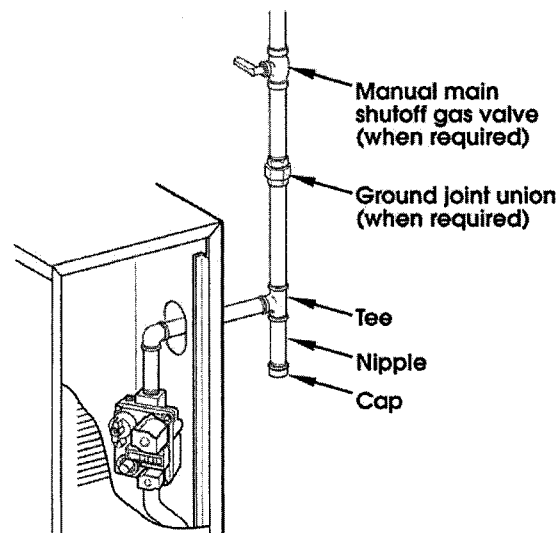
Propane Gas:

1. Contact gas supplier to size pipes, tanks and 100% lockup gas pressure regulator.
2. Adjust propane supply regulator provided by gas supplier for 13" w.c. maximum pressure.
3. Inlet pressure required at gas valve inlet:
 - Maximum: 13" w.c.
 - Minimum: 11" w.c.
 - Manifold gas pressure: 10" w.c.

Table 4 Pipe capacity for 0.60 specific gravity natural gas

Gas pipe length (feet)	Capacity of pipe for pipe size of: (Capacity in cubic feet gas per hour)				
	½"	¾"	1"	1¼"	1½"
10	132	278	520	1050	1600
20	92	190	350	730	1100
30	73	152	285	590	860
40	63	130	245	500	760
50	56	115	215	440	670
75	45	93	175	360	545
100	38	79	150	305	460
150	31	64	120	250	380

Figure 19 Gas supply piping



59322



5 Field wiring

WARNING

For your safety, turn off electrical power supply at service entrance panel before making any electrical connections to avoid possible electric shock hazard. Failure to do so can cause severe personal injury or death.

NOTICE

Wiring must be N.E.C. Class 1.

If rollout thermal fuse element wire as supplied with boiler must be replaced, type 200°C wire or equivalent must be used. If other original wiring as supplied with boiler must be replaced, use only type 105°C wire or equivalent.

Boiler must be electrically grounded as required by National Electrical Code ANSI/NFPA 70-latest edition.

Installation must comply with:

1. National Electrical Code and any other national, state, provincial or local codes or regulations.
2. In Canada, CSA C22.1 Canadian Electrical Code Part 1, and any local codes.

Wiring connections

Boiler is shipped with controls completely wired, except spill switch and vent damper. Refer to wiring diagrams shown on page 34 for standing pilot ignition boiler or page 38 for spark-ignited pilot boiler.

Thermostat

1. Connect thermostat as shown on wiring diagram on boiler.
2. Install on inside wall away from influences of drafts, hot or cold water pipes, lighting fixtures, television, sunrays or fireplaces.
3. If thermostat has a heat anticipator, set heat anticipator in thermostat to match power requirements of equipment connected to it. If connected directly to boiler, set for 0.1 amps plus gas valve current. See information on the wiring diagram shown in Figure 25b, page 39. For other devices, refer to manufacturer's specifications. Wiring diagram on boiler gives setting for control module and gas valve. Also see instructions with thermostat.

Junction box (furnished)

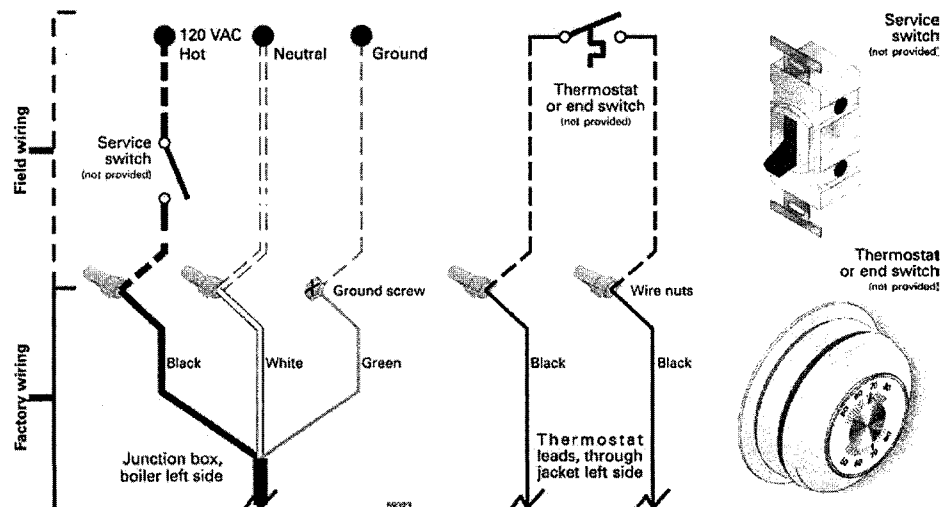
1. Connect 120 VAC power wiring (Figure 20).
2. Fused disconnect or service switch (15 amp. recommended) may be mounted on this box. For those installations with local codes which prohibit installation of fused disconnect or service switch on boiler, install a 2 x 4 cover plate on the boiler junction box and mount the service switch remotely as required by the code.

Wiring multiple zones

Refer to zone valve manufacturer's literature for wiring and application. A separate transformer is required to power zone valves. Zoning with circulators requires a relay for each circulator.

Figure 20

Field wiring connections — service switch and thermostat (or end switch) provided by installer





1c Prepare boiler location — vent system

WARNING

Failure to follow all instructions can result in flue gas spillage and carbon monoxide emissions, causing severe personal injury or death.

DANGER

Inspect existing chimney before installing boiler. Failure to clean or replace perforated pipe or tile lining will cause severe personal injury or death.

DANGER

Do not alter boiler draft hood or place any obstruction or non-approved vent damper in breeching or vent system. CSA certification will become void. Flue gas spillage and carbon monoxide emissions will occur causing severe personal injury or death.

When removing boiler from an existing common vent system:

At the time of removal of an existing boiler, the following steps shall be followed with each appliance remaining connected to the common venting system placed in operation, while the other appliances remaining connected to the common venting system are not in operation.

- a. **Seal any unused openings** in the common venting system.
- b. **Visually inspect the venting system** for proper size and horizontal pitch and determine there is no blockage or restriction, leakage, corrosion or other deficiencies which could cause an unsafe condition.
- c. **Test vent system** — Insofar as is practical, close all building doors and windows and all doors between the space in which the appliances remaining connected to the common venting system are located and other spaces of the building. Turn on clothes dryers and any appliance not connected to the common venting system. Turn on any exhaust fans, such as range hoods and bathroom exhausts, so they will operate at maximum speed. Do not operate a summer exhaust fan. Close fireplace dampers.
- d. **Place in operation** the appliance being inspected. Follow the lighting/operating instructions. Adjust thermostat so appliance will operate continuously.
- e. **Test for spillage** at draft hood relief opening after 5 minutes of main burner operation. Use the flame of a match or candle.
- f. After it has been determined that **each appliance** remaining connected to the common venting system properly vents when tested as outlined above, return doors, windows, exhaust fans, fireplace dampers, and any other gas-burning appliance to their previous conditions of use.

Any improper operation of common venting system should be corrected so the installation conforms with the National Fuel Gas Code, ANSI Z223.1-latest edition. Correct by resizing to approach the minimum size as determined using the appropriate tables in Part 11 of that code. Canadian installations must comply with B149.1 or B149.2 Installation Code.

Chimney or vent requirements

1. Venting must be installed according to Part 7, Venting of Equipment, of National Fuel Gas Code, ANSI Z223.1-latest edition and applicable building codes. Canadian installations must comply with B149.1 or B149.2 Installation Codes.
2. See Ratings table on page 67 for minimum chimney or vent sizes. A chimney or vent **without a listed cap** should extend **at least 3 feet above the highest point** where it passes through a roof of a building and **at least 2 feet higher than any portion of a building within a horizontal distance of 10 feet**. A chimney or vent must not extend less than the distances stated above.
3. A lined chimney is preferred and must be used when required by local, state, provincial and national codes, laws, regulations and ordinances. Vitreous tile linings with joints that prevent retention of moisture and linings made of noncorrosive materials are best. Advice for flue connections and chimney linings can be obtained from local gas utility. **Type B** double-wall metal vent pipe or single-wall vent pipe may be used as a liner.
4. Cold masonry chimneys, also known as outside chimneys, typically have one or more walls exposed to outside air. When any atmospheric gas-fired boiler with automatic vent damper is vented through this type of chimney, the potential exists for condensation to occur. Condensation can damage a masonry chimney. Weil-McLain recommends the following to prevent possible damage.
 - a. Line chimney with corrosion-resistant metal liner such as AL29-4C® single-wall stainless steel or B-vent. Size liner per National Fuel Gas Code ANSI Z223.1-latest edition.
 - b. Provide drain trap to remove any condensate.
5. Where two or more gas appliances vent into a common chimney or vent, equivalent area should be **at least equal** to area of vent outlet on largest appliance **plus 50 percent** of vent outlet area on additional appliance.



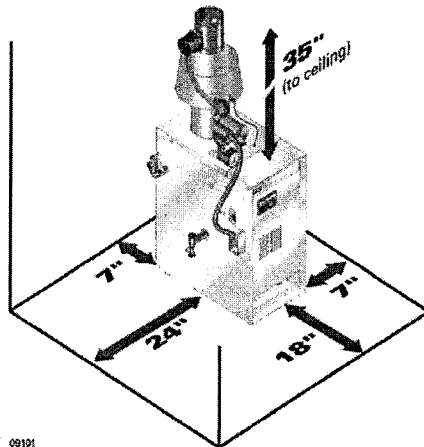
1b Prepare boiler location — clearances

Recommended **SERVICE** clearances

(Fig. 1a)

1. Provide clearances for cleaning and servicing the boiler and for access to controls and components. See Figure 1a for recommendations.
2. Provide at least screwdriver clearance to jacket front panel screws for removal of front panel for inspection and minor service. If unable to provide at least screwdriver clearance, install unions and

Figure 1a
Recommended
service
clearances
(see **WARNING**
below)



WARNING

If any clearance is less than in Figure 1a, provide openings for combustion and ventilation air *located on the wall or door opposite the boiler FRONT* (see Figure 1b).

These openings must be located as shown in Figure 1b to provide proper air flow around the boiler. The free area of each opening (after deducting for louvers) must be at least **one square inch per 1,000 Btuh** of boiler input. If the building is of unusually tight construction (see page 11 for definition), the air openings must connect directly to outside or the building must have air openings to the outside as specified on page 11.

If clearances are equal to or greater than Figure 1a, see pages 10 and 11 for location and sizing of combustion air openings.

Failure to comply can result in severe personal injury, death or substantial property damage and reduced boiler life.

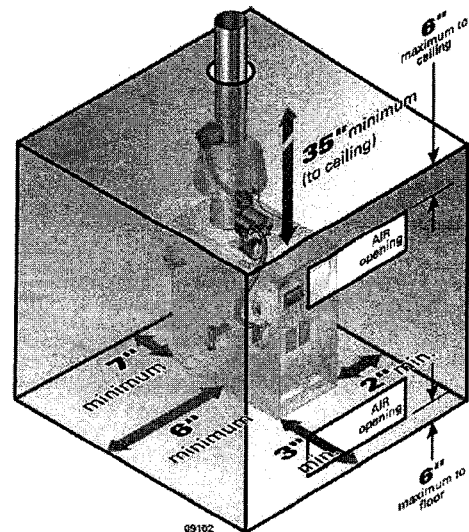
Required **MINIMUM** clearances (Fig. 1b)

WARNING

Never install the boiler in a space with clearances less than the minimum clearances shown in Figure 1b. Failure to comply can result in severe personal injury, death or substantial property damage and reduced boiler life.

1. **Hot water pipes:** at least $\frac{1}{2}$ inch from combustible material.
2. **Single-wall vent pipe:** at least 6 inches from combustible material.
3. **Type B double-wall metal vent pipe:** refer to vent manufacturer's recommendation for clearances to combustible material.

Figure 1b Required **MINIMUM** clearances



Flooring

The CGa boiler is approved for installation on combustible flooring, but must never be installed on carpeting.

WARNING

Do not install boiler on carpeting even if foundation is used. Fire can result, causing severe personal injury, death or substantial property damage.

Foundation

1. Provide a solid brick or minimum 2-inch thick concrete foundation pad if any of the following is true:
 - floor can become flooded.
 - the boiler mounting area is not level.
2. Minimum dimensions are **25" length** by:

Minimum foundation width:			
CGa-25/3	12"	CGa-6	21"
CGa-4	15"	CGa-7	24"
CGa-5	18"	CGa-8	27"

Residential garage installations

Take the following special precautions when installing the boiler in a residential garage. If the boiler is located in a residential garage, per ANSI Z223.1:

- Mount the boiler a minimum of **18 inches above the floor** of the garage to assure the burner and ignition devices will be no less than 18 inches above the floor.
- Locate or **protect the boiler** so it cannot be damaged by a moving vehicle.