DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK





This is to certify that

Located at

MONTFORT HOUSING LIMITED PARTNERSHIP/Pine

37 FORE ST

State Services Inc

PERMIT ID: 2013-02090

ISSUE DATE: 09/19/2013

CBL: 017 G007001

has permission to HVAC Install multiple Lochinvar Knight Boilers in all buildings.

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise clsoed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be procured prior to occupancy.

N/A /s/ Tammy Munson

Fire Official Building Official

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY THERE IS A PENALTY FOR REMOVING THIS CARD

Approved Property Use - Zoning 140 Dwelling units in 29 buildings

Building Inspections

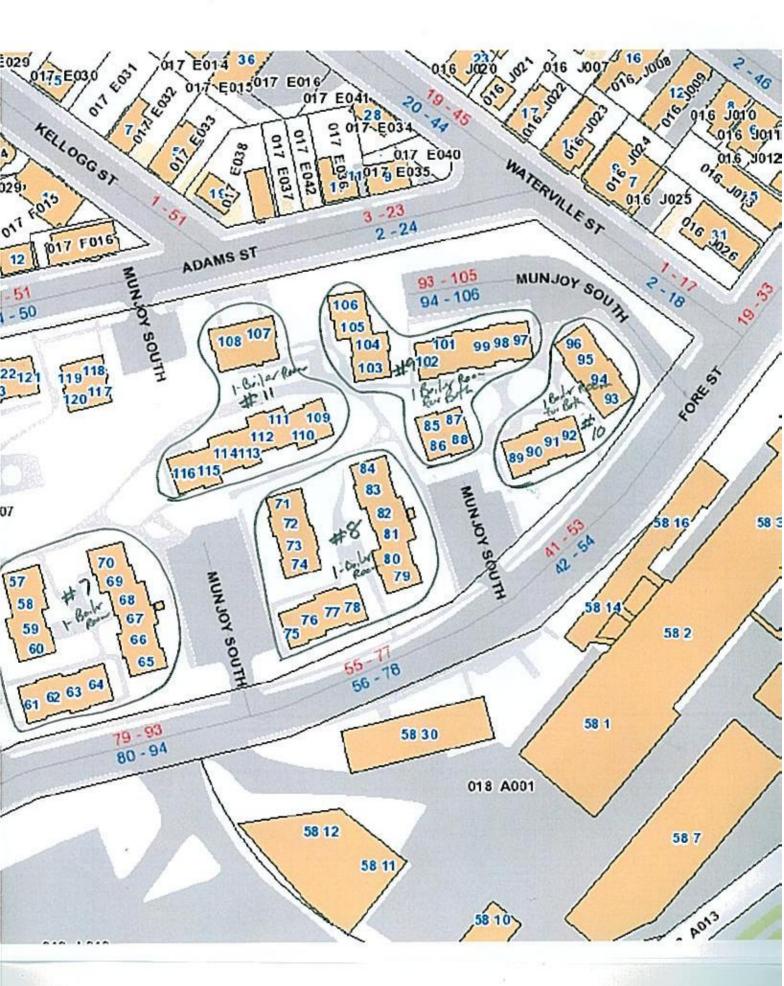
Fire Department

My Map

Inspections Division Date: 09/19/13

27 Mountfort





BUILDING PERMIT INSPECTION PROCEDURES Please call 874-8703 (ONLY)

or email: buildinginspections@portlandmaine.gov

Check the Status or Schedule an Inspection On-Line at http://www.portlandmaine.gov/planning/permitstatus.asp

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.
- Permits expire in 6 months. If the project is not started or ceases for 6 months.
- If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.
- Per Section 107.3.1 of the Maine Uniform Building and Energy Code (MUBEC). One set of printed approved stamped construction documents shall be kept at the site of work and shall be open to inspection by building officials.

REQUIRED INSPECTIONS:

Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.

City of	Portland, I	Maine - Building or Use Pe	ermit	Permit No:	Date Applied For:	CBL:
389 Cor	ngress Street,	04101 Tel: (207) 874-8703, F	Fax: (207) 874-8716	2013-02090	09/16/2013	017 G007001
Proposed	Use:		Proposed	Project Description:		
Same: 1	40 Dwelling u	nits in 29 buildings	HVAC	Install multiple Lo	ochinvar Knight Boile	ers in all buildings.
Dept:	Zoning	Status: Approved	Reviewer:	Marge Schmucka	l Approval Da	nte: 09/19/2013
Note:						Ok to Issue: 🔽
Condit	tions:					

Acknowledgment of Code Compliance Responsibility- Fast Track Project



I am seeking a permit for the construction or installation of: am the owner or duly authorized owner's agent of the property listed below

work performed. be in my name and that I am acting as the general contractor for this project. I accept full responsibility for the I understand that the permits obtained pursuant to this acknowledgement of code compliance responsibility will

authorize the violation of regulations. City of Portland historic preservation requirements, if applicable. I understand and agree that this permit does not construed as satisfying the requirements of other applicable Federal, State or Local laws or regulations, including the required permits prior to issuance of this permit. I understand that the granting of this permit shall not be engage in the work requested under this building permit, and no such permits are required or I will have obtained attained. I certify that I have made a diligent inquiry regarding the need for concurrent state or federal permits to necessitate an immediate work stoppage until such time as compliance with the stipulated conditions is following statement and understand that failure to comply with all conditions once construction is begun may Prevention and Protection in anticipation of having it approved or approved with conditions. I have read the Board Laws and Rules and all locally adopted codes and standards applying to Plumbing, Electrical, Fire I am submitting for a permit authorized by the State of Maine Uniform Building and Energy Code (MUBEC), Fuel

12801 et seq. - Endangered Species. In addition, I understand and agree that this building permit does not authorize the violation of the 12 M.R.S. §

shown on the site plans submitted with this application. further certify that all easements, deed restrictions, or other encumbrances restricting the use of the property are I certify under penalty of perjury and under the laws of the State of Maine the foregoing is true and correct. I

I hereby apply for a permit as a Connect herein and by so doing will assume

responsibility for compliance with all applicable codes, bylaws, rules and regulations.

INITIAL HERE to the work completed if it does not meet applicable codes. LIV inspections will, at that time, check the work for code compliance. The City's inspectors may require modifications I Justher understand that it is my responsibility to schedule inspections of the work as required and that the City's

81-81-6 Date: Sign Here:

PLEASE ALSO FILL OUT AND SIGN SECOND PAGE

Date: 09/19/13

Acknowledgment of Code Compliance Responsibility- Fast Track Project





e: Sec. 100 Denot 1. Authorited Actors	Sign Hen
(28) Els/13 (85)	36
New Sprinklered Single Family Homes (bearing the seal of a licensed design professional stating code compliance) — MUST STILL RECEIVE LEVEL 1 SITE PLAN APPROVAL FROM PLANNING	, .
Fire Suppression Systems (Both non-water and water based installations)	
Temporary Outdoor Tents and Stages for Non-assembly Uses	
Renewal of Outdoor Dining Areas	
Residential or Commercial Subsurface Waste Water Systems (No Rule Variance)	
Exterior Propane Tanks	
Commercial Signs or Awnings	. ⊏
Commercial Boilers/Furnaces	
Commercial HVAC systems (with structural and mechanical plans bearing the seal of a licensed design professional stating code compliance)	F.
Interior office renovations w/ no change of use (no expansions; no site work; bearing the seal of a licensed design professional stating code compliance)	
Attached One / Two Family Garages	
One/Two Family HVAC (including direct replacement of boilers and furnaces)	X
One/Two Family Renovation/Rehabilitation (of less than 50% of the livable area of the building)	
One/Two Family Change of Use Only (no construction)	
One/Two Family Detached One Story Structures (garages, sheds, etc.) under 600sf	
One/Two Family Decks, Stairs and Porches (attached or detached) First Floor Only	
One/Two Family Swimming Pools, Spas or Hot Tubs	
One/Two Family Renovations/ Rehabilitations with greater than 50% of the livable area (bearing the seal of a licensed design professional stating code compliance)	
SRY/CATEGORIES (CHECK ALL THAT APPLY):	CALEGO
OJECT IS ELIGIBLE FOR FAST TRACK PERMITTING BECAUSE IT IS IN THE FOLLOWING	





PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

Jeff Levine, AICP, Director Director of Planning and Urban Development Tammy Munson Director, Inspections Division

Electronic Signature and Fee Payment Confirmation

Notice: Your electronic signature is considered a legal signature per state law.

By digitally signing the attached document(s), you are signifying your understanding this is a legal document and your electronic signature is considered a *legal signature* per Maine state law. You are also signifying your intent on paying your fees by the opportunities below.

I, the undersigned, intend and acknowledge that no permit application can be reviewed until payment of appropriate permit fees are *paid in full* to the Inspections Office, City of Portland Maine by method

Within 24-48 hours, once my complete permit application and corresponding paperwork has been electronically delivered, I intend to call the Inspections Office at 207-874-8703 and speak to an administrative representative and provide a credit/debit card over the phone.

Within 24-48 hours, once my permit application and corresponding paperwork has been electronically delivered, I intend to hand deliver a payment method to the Inspections Office, Room 315, Portland City Hall.

I intend to deliver a payment method through the U.S. Postal Service mail once my permit paperwork has been electronically delivered.

Applicant Signature: Lee Nicely, Pine State Services

Date: 9/13/13

I have provided digital copies and sent them on:

Date: 9/13/13

NOTE: All electronic paperwork must be delivered to <u>buildinginspections@portlandmaine.gov</u> or by physical means ie; a thumb drive or CD to the office.





HVAC / Power Equipment Checklist

All of the following information is required and must be submitted. Checking off each item as you prepare your application package will ensure your package is complete and will help to expedite the permitting process.

_	
	A floor plan that includes structural details, size and dimensions of the floor the equipment is going to be installed.
	Information on how the unit is being vented & hanging details if appropriate.
	Details of the specific equipment being installed; ie; specifications and any heating technical specifications. Often this information can be obtained from the manufacturer's spec sheet or retail advertisements.
	A plot plan showing the shape and dimension of the lot, with the distance from the actual property lines, and the principal structure may be required.
	Proof of ownership is required if it is inconsistent with the assessors records.
	All HVAC installations must be conducted in compliance with the IRC 2009 Building Code
Separate	e permits are required for plumbing and electrical installations, as required.
Separate	e permits are also required based on different properties (different Chart, Block and Lot.)
Peri	mit Fee: \$30.00 for the first \$1000.00 construction cost, \$10.00 per additional \$1000.00 cost

This is not a Permit; you may not commence any work until the Permit is issued.



FILL IN AND SIGN WITH INK



Application for Heating, Ventilation, Air Condition (HVAC) Cooking or Power Equipment

To the Inspector of Buildings, Portland Maine:

The undersigned hereby applies for a permit to install the following HVAC, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Address/CBL: 37 Fore Street (17-g-7 Use of	Building: Low income housing Date: 9/13/13				
Name and Address of Owner: Stanford Management, LLC					
245 Commercial Street, Third Floor, Portland, ME 04					
Installer's Name and Address: Pine State Services, Inc.					
184 Main Street, Ste 1c, South Portland, ME 04106	E-Mail: info@pinestateservices.com				
Location of Appliance: Basement Roof Type of Fuel: Gas Oil Solid Appliance Name: Lochinvar Knight UL Approved: Yes No Will appliance be installed in accordance with the manufacturer's installation instructions? Type of License of Installer: Master Plumber #: MS8235	Type of Venting: (Plan required for submittal) Masonry Lined Factory Built: Metal Factory Built UL Listing: Direct Vent Type: PVC UL #: # of Tanks: Type of Fuel Tank: Gas Oil Size of Tank: Distance from tank to center of flame:				
Solid Fuel #:	a 155 500				
Oil #:	Cost of Work: \$ 155,500				
Gas #: PNT1218					
Other:	Permit Fee: \$ 1575.00				
Approved Fire: Electric: Building:	Approved with Conditions ☐ See attached letter or requirements				
	Inspector's Signature Date Approved				
Signature of Installer:	E:Mail: lee@pinestateservices.com				

CONDENSING RESIDENTIAL GAS BOILERS





SMART SYSTEM

CONTROL WITH ADVANCED **USER FEATURES**

MODELS FROM 80,000 TO 285,000 BTU/HR

5:1 FIRING RATE MODULATION

LESS THAN 20 ppm NOx

DIRECT VENT FLEXIBILITY TO 100 FEET

UP TO 98% EFFICIENCY IN LOW TEMP APPLICATIONS





95% AFUE EFFICIENCY



knightheatingboiler.com



Date: 09/19/13



95% DOE AFUE EFFICIENCY

THE BEST YOU CAN BUY IS NOW EVEN BETTER!

KNIGHT is recognized for its reliable, proven performance and high quality standards. Its award winning design assures contractors and home owners peace of mind and long term savings in operating costs.

Lochinvar has raised the KNIGHT standard to even greater heights. The SMART SYSTEM™ control with color display gives installers and maintenance personnel a greater level of control than ever before. It's easy to access all the information they need to setup, troubleshoot and monitor all boiler functions. Additionally, two cascading options allow the installer to fine-tune sequencing of multiple boiler installations.

More than ever, KNIGHT is the best choice for traditional hydronic space heating, radiant floor heating and indirect domestic hot water applications.



FLOOR STANDING MODELS

The KNIGHT Floor-Standing lineup features 5 small footprint models from 80,000 to 285,000 Btu/hr.

*WALL-MOUNTED FIRE TUBE MODELS AVAILABLE

7 Inputs from 55,000 to 399,999 Btu/hr. See Knight Wall Mount Literature (WHN) for more details.



All KNIGHT Boilers meet or exceed the most stringent requirements, with less than 20 ppm NOx.



lost Efficient

The KNIGHT Boiler has been designated as one of the Most Efficient ENERGY STAR qualified products in 2012.



KNIGHT XL COMMERCIAL

Need more BTU's? KNIGHT XL Commercial Boilers are available in 5 sizes from 399,999 to 800,000 Btu/hr, See KNIGHT XL literature for more details.



SCROLL

SMART CAYSTEM PUTS MORE CONTROL AND INFORMATION AT YOUR FINGERTIPS

KMEHT

The SMART SYSTEM" is the most advanced integrated boiler control on the market today.

LARGER LCD SCREEN

Displays more information.

SOFT KEYS

For simple programming.

NAVIGATION DIAL

For fast transitions from screen to screen and easy adjustment of settings.

USB PORT

USB port permits connection to a laptop computer. SMART SYSTEM PC software may be used to troubleshoot and program KNIGHT® functions, set date and time, monitor historical data, including faults, trends and energy consumption.





BLUE SCREEN Normal system operation.



YELLOW SCREEN

Maintenance due - shows the installer's name and number on the display.



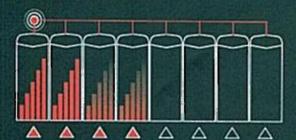
RED SCREEN

Lockout mode - shows active fault and installer's name and number on the display.

SELECTABLE CASCADE OPTIONS

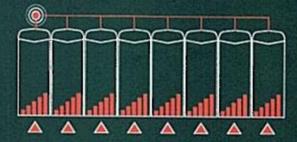
When multiple KNIGHT boilers are installed together, the SMART SYSTEM built-in sequencer can be set for "Lead-Lag" cascade or "Efficiency Optimized" cascade operation.

LEAD-LAG CASCADE



The "lead" boiler modulates with demand to capacity. As demand increases, additional boilers fire and modulate to capacity. This continues, with additional boilers firing and modulating to capacity until all units are operating. Every 24 hours, the SMART SYSTEM automatically shifts the lead boiler role to the next in the sequence, distributing lead-lag runtimes equally.

EFFICIENCY OPTIMIZED CASCADE



This feature optimizes the modulation capabilities of the Bolier Plant while evenly distributing run time across all cascaded boilers. Every 24 hours the SMART SYSTEM automatically shifts the 1st boiler on role to the next in the sequence, distributing run time equally.

SMARY SYSTEM Gestade appear atlants 2 - 8 boilers to be sequenced.

DIAL IN SYSTEM PERFORMANCE

NEW!

COMPATIBILITY WITH COPPER FIN II
NON-CONDENSING BOILER

Allows you to create a front end loading system.

NEW!

MULTIPLE SIZED BOILER CASCADE CONTROL

XVIGHTS of one or more sizes can be combined into a single cascade to maximize turndown and meet minimum demands.

* Internal Cascading Sequencer with Multiple Programmable System Efficiency Optimizers

Fine-tune installations using Lead-Lag or Efficiency Optimization Cascade features

* CONTROLS UP TO THREE SETPOINT TEMPERATURES

Allows three different temperature inputs to be controlled. Boiler can be run at the lowest temperature demand for optimal efficiency.

* OUTDOOR RESET FOR EACH TEMP LOOP

The boiler setpoint temperature responds to changes in outdoor air temperature. Outdoor temperature monitor guides the reset schedule to meet the load.

NIGHT SETBACK

Program a heating loop temperature setback for any time of the day, each day of the week.

DOMESTIC HOT WATER PRIORITIZATION W/PUMP CONTROL

On DHW call, SMART SYSTEM overrides the outdoor reset and starts the DHW pump to the indirect water heater alternating to meet both heating and hot water demands.

* DHW NIGHT SETBACK

Resets DHW setpoint to save water heating energy during times of low or no usage.

*Exclusive feature, available only from Lochinvar

* DHW MAX FIRING RATE

Allows you to limit the maximum percentage of fring rate when in DHW mode.

* SEPARATELY ADJUSTABLE SH/DHW Mode Switching Times

Allows controls to be tailored to meet system demand. Design system setup for flexibility.

INDIRECT WATER HEATER ZONE PUMP CONTROL

All boilers in cascade can be used to meet DHN demand as well as satisfy building load.

SYSTEM & BOILER PUMP CONTROLS

Provides power to system and boiler pumps on a call for heat, Programmable post purge allows pumps to operate after a call has been satisfied. Option for Continuous System Pump Operation.

* PUMP RELAY WITH FREEZE PROTECTION

Parameters adjustable by installer for flexibility in low-temperature applications.

* Installer Access to BMS and Ramp Delay Settings

Set up or change these parameters through the correct self on the foot of the boiler, no PC sobsure required

LOW-WATER FLOW INDICATOR

Uses temperature differential to protect against low flow in heat exchanger by reducing modulation or forcing boiler shutdown.

PASSWORD SECURITY

Allows only qualified personnel to access parameters.

* PRODUCT SERVICE INDICATOR

Program reminders for cycle count, operation hours or last service. Installer's name and number may be displayed.

Building Management Inputs & Outputs

OPTIONAL MODBUS CAPABILITY

Allows boiler communication through Modbus protecol. Simplifies BMS/boiler interface for status monitoring.

0-10V BUILDING MANAGEMENT SYSTEM (BMS) CONTROL INPUT

EMS driven input for modulation rate or temperature control.

0-10V CASCADE SETPOINT AND MODULATION CONTROL

BMS-driven input for modulation rate or temperature control of cascade.

0-10V HEAT DEMAND INPUT

Enables thermostation a 0-10V signal to initiate a call for heat. Gives the BMS options on how to enable boiler or cascade.

0-10V BOILER RATE OUTPUT

Signal output of modulation rate allows 8MS to monitor boiler firing rate.

0-10V PUMP SIGNAL INPUT

Input from variable speed system pump allows faster reaction to changes of flow in system, reducing possibility of temperature over-shoot and cycling.

0-10V SIGNAL TO CONTROL VARIABLE SPEED BOILER PUMP

Allows control to maintain a higher AT at low firing rates and reduces boiler flow when it responds to lower flow rates in the system loop,

5 FLEXIBLE OPTIONS FOR DIRECT-VENTING UP TO 100 FEET!

Placement of units within a building will never be a problem with KNIGHT. It permits up to 100 feet of air intake and 100 feet of exhaust vent with PVC, CPVC, polypropylene or stainless steel pipe.



OPTIONAL SIDEWALL VENT TERMINATION



*OPTIONAL KIT ALLOWS FOR AN ATTRACTIVE SIDEMALL TERMINATION WHEN USING PVC, CPVC OR POUPPROPYLINE VENT MATERIAL.



Direct-Vent Vertical



Vertical with Sidewall Air



Direct-Vent Vertical*



Direct-Vent Sidewall*



Direct-Vent Sidewall

"An optional concentric year kit is sold separately to allow a single personation for both combustion air and vent pipes.

Thison

Date: 09/19/13



STATE-OF-THE-ART MODULATING COMBUSTION SYSTEM

Advanced Negative Regulation Technology

KNIGHT safely and reliably operates with supply gas pressures as low as 4 inches water column. Plus "Neg/Reg" technology automatically adjusts gas pressure to ensure the correct volume of fuel and air entering the burner.

Direct-Spark Ignition

With each call for heat, two electrodes ignite the fuel/air mixture. A third electrode then senses for flame. The SMART SYSTEM will generate a soft lockout and display a fault if ignition does not occur.

Fully Modulating Burner with 5:1 Turndown

The SMART SYSTEM allows fully modulating combustion with 5:1 turndown. The burner can fire as low as 20% of maximum input and modulate the firing rate up to 100% as demand increases. A woven stainless steel mesh enclosed burner tube fires in a 360° pattern along the entire length of the primary heat exchanger.

Two-in-One Stainless Steel Heat Exchanger

A primary heat exchanger combined with a secondary heat exchanger captures flue gas heat and condenses to utilize available latent energy. The stainless steel, pH-tolerant design features a weld-sealed assembly with no O-rings or gaskets and does not require special glycol. ASME Section IV approved and stamped.

Field Connection Versatility

User-friendly terminal strip allows for 44 low-voltage field connections. Four-line voltage connections supply power to the unit and up to three pumps operated by the SMART SYSTEM.

KBN286 Shown

TEAM KNIGHT WITH SQUIRE FOR LOW-COST DOMESTIC HOT WATER!

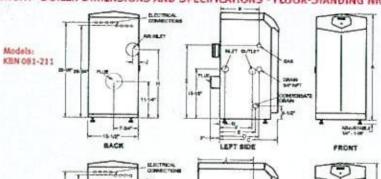


KNIGHT's Domestic Hot Water Prioritization feature means you can easily install it with Lochinvar's SQUIRE® indirect water heater, available in 30, 40, 50, 65, 80 and 119 gallons. This combination will give homeowners higherficiency space heating from KNIGHT, and abundant domestic hot water from SQUIRE. With a stainless steel tank and heat exchanger, SQUIRE provides more hot water and lower water heating costs than standard gas or electric water heaters.

KNIGHT® BOILER DIMENSIONS AND SPECIFICATIONS - FLOOR-STANDING MODELS







KBN286

Models

Model	Min Max		AFINE	Heating	NET	
Number	MBH	MBH	16	MBH	MSH	
CENTRAL	16	60	95,0	74	64	
EN106	21	105	95.0	97	84	
ŒN151	30	150	95.0	139	121	
CBNQ11	42	210	95.0	196	170	
CBN286	57	285	95.0	267	232	

A	C	D	E		G	H	1	1	K	Gas Conn.	Water Conn.	Air Inlet	Vent Size	Shipping W. Obs
33-1/4"	И,	7	5-3/4"	5.	3,	20-1/2"	22	1-3/4"	6-1/2"	1/7	1"	3"	3*	125
33-1/4"	14"	6-1/2"	5-3/4"					1-3/4"			1.	3*	3.	129
33-1/4"	18"	12-1/4	11-1/2	10"		21-1/4"				1/2*	1'	3.	3*	157
33-1/4	22-1/4	16-1/2"	15-3/4"	14-1/4"	5-1/4"	21-1/4	23"	1-3/4"	16-1/4	1/2*	1"	3*	3*	172
42-1/4"	19-3/4"	12-3/4"	13-1/2	5	2	34"		11-3/4"			1-1/4	4	4	224

Notes: ladoor installation only. All information subject to change. Change "N" to "L" for LP gas models. Net ratings based on piping and pick-up allowance of 1.15

SMART SYSTEM™ FEATURES

> SMART SYSTEM Digital Operating Control

» Malti-Color Graphic LCD Display with Navigation Dial and Soft Keys

Three Setpoint Temperature Inputs

Built-in Cascading Sequencer for up to 8 Boilers

- Cascade Multiple Sized Boilers
- > Lead Lag
- Efficiency Optimization
- > Front End Loading Capability with Copper Fin II > Outdoor Reset Control with Outdoor Air Sensor

- Programmable for Three Reset Temperature inputs
- > Programmable System Efficiency Optimizers Night Setback w/Overide Function
- DHW Night Setback w/Overide Function
- Anti-Cycling
- 3 Outdoor Air Reset Curve
- Ramp Delay
- Boost Temperature & Time

Three Pump Control

- System Pump with Parameter for Continuous Operation
- Boiler Pump with Variable Speed Pump Control*

Domestic Hot Water Pump

> Domestic Hot Water Prioritization

- a DHW tank piped with priority in the boiler loop
- > DHW tank piped as a zone in the system with the pumps controlled by the Smart System.
- DHW Modulation Limiting
- Separately Adjustable 5H/DHW Switching Times*

» Building Management System Integration

- > 0-10VDC Input to Control Modulation or Set Point
- > 0-10VDC Modulation Rate Output
- > 0-10VDC input Signal from Variable
- Speed System Pump*
- > 0-10VDC Input to Enable/Disable call for heat

"Extinsive feature, available only how tachinus

> High-Voltage Terminal Strip

- 120 VAC / 60 Hertz / 1 Phase Power Supply
- Three Sets of Pump Contacts

> Low Voltage Terminal Strip

- 3.24 VAC Device Relay
- Proving Switch Contacts
- Flow Switch Contacts
- Alarm on Any Failure Contacts
- Runtime Contacts
- > DHW Thermostat Contacts
- > 3 Space Heat Thermostat Contacts
- a System Sensor Contacts
- > DHW Tank Sensor Contacts
- Outdoor Air Sensor Contacts
- Cascade Contacts
- a 0-10VDC BMS External Control Contact
- ▶ 0-10VBC Boiler Rate Output Contacts
- > 0-10VDC Variable Speed System Pump Signal Input
- 0-10VDC Signal to Control Variable Speed Boiler Pump
- Modbus Contacts

> Time Clock

Data Logging

- » Hours Running, Space Heating
- > Hours Running, Domestic Hot Water
- Ignition Attempts
- Last 10 Lockouts

Access to BMS Settings through Graphic LCD Display

Maintenance Reminder

- Custom Maintenance Reminder with Contractor Info I lastaller Ability to De-activate Service Reminder
- Low-Water Flow Safety Control & Indication
- Dual Level Password Security
 Customizable Freeze Protection Parameters

STANDARD FEATURES

> ENERGY STAR Most Efficient Recognition

95% DOE AFUE Efficiency

> Modulating Burner with 5:1 Turndown

- Direct Spark Ignition
- > Low-NOx Operation
- Field Convertible from Natural to LP Gas

> ASME Stainless Steel Heat Exchanger

30 psi ASME Relief Valve

> Vertical & Horizontal Direct-Vent

> PVC, CPVC, Polypropylene or SS Venting up to 100 feet.

Smart System Control

Condensate Trap

Other Features

- Automatic Reset High Limit
- Adjustable High Limit w/Manual Reset
- Boiler Circulating Pump
- Adjustable Leveling Legs
- Zero Clearances to Combustible Materials
- 12-Year Limited Warranty (See Warranty for Details)

OPTIONAL EQUIPMENT

- Modbus Communication
- Condensate Neutralization Kit
- Multi Temperature Loop Control
- Flow Switch
- Low-Water Cutoff w/Manual Reset & Test
- Alam Bell Concentric Vent Kit
- SMART SYSTEM PC Software
- Stack Frame
- BMS Gateway to LON or BacNet
- Sidewall Vent Termination

FIRING CODES

1M9

Standard Construction

> M2 California Code



Locklever, LEC 300 Maddan Simpson Fellway Lebaron, Tennesiae 37090 P: 615-889-8900 / F: 615-547-1000









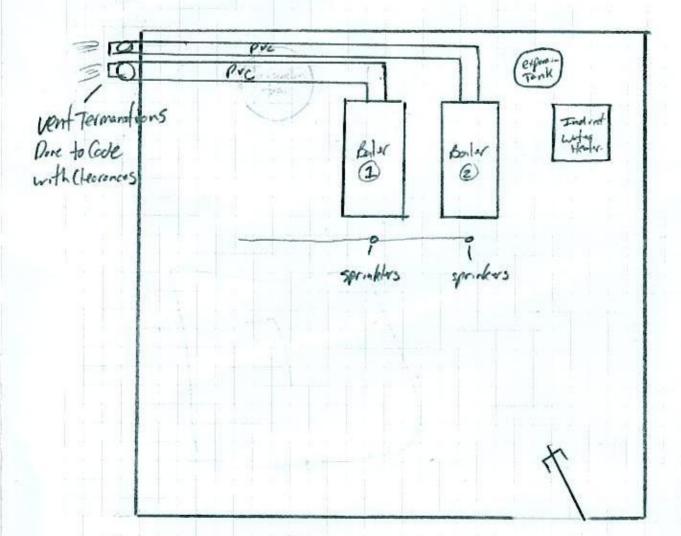




FG-10M-11/12 Printed in U.S.A.



Typical Boiler Room. 18×18



7 Boiler Rooms Total.