

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

# CAST IRON BOILERS



**I. B. R.**  
Reg. U. S. Pat. Off.  
Reg. T. M. Canada



**A. S. M. E.**



**A. G. A.**

**THE PEERLESS HEATER COMPANY**  
DIV. OF PEERLESS INDUSTRIES, INC.

**BOYERTOWN, PENNSYLVANIA 19512**

**PEERLESS  
HEAT**

**SINCE**

**1908**

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES MMW

GAS-FIRED  
RESIDENTIAL  
CAST IRON BOILER



### 4 SIZES

PACKAGED  
HOT WATER BOILERS  
FOR USE  
WITH NATURAL  
& PROPANE GASES

60,000 to  
145,000  
BTU/hr. Input



Castings-Mfg. by  
Eastern Foundry Cor  
A Division of Peerless Ir  
Boyertown, PA 193

# PEERLESS

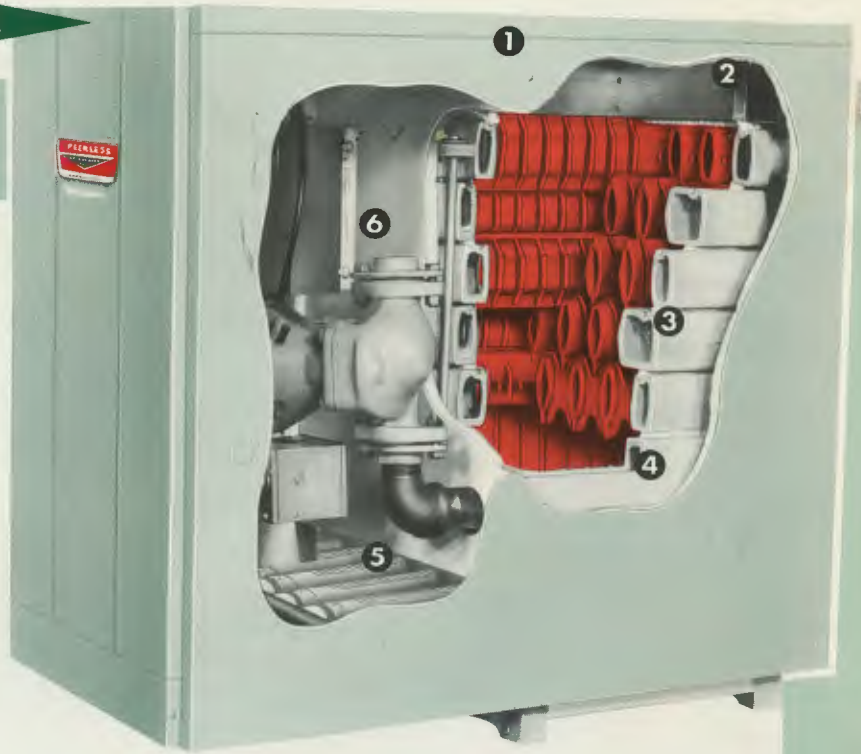
OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## Plus Features:

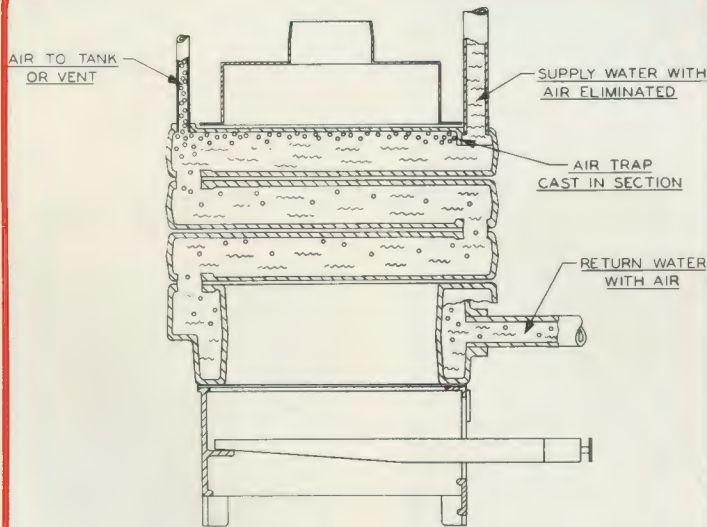
- 1 Jacket—All steel with baked green enamel finish inside and out for maximum appearance and high corrosion resistance. Thick glass wool insulation completely surrounds boiler sections.
- 2 Flue Collector—Heavy gauge aluminized steel, corrosion resistant for long life, is sealed to top section with asbestos rope.
- 3 Cast Iron Sections—Thick walled, with specially engineered heat absorbing fins. High offset, Peerless water tube design, forces hot gases to twist and turn for maximum efficiency. Factory Hydrostatically tested at 125 lbs. pressure.
- 4 Cast Iron, Water Backed Base, offers added heat absorbing surfaces, as well as greater strength and long life.
- 5 Burners — One piece, special Peerless design, offering muted quiet operation, high efficiency and long life.
- 6 \*Circulator and Controls—Factory assembled and wired, ready for immediate installation.

\*Circulator—on WC MODELS Only



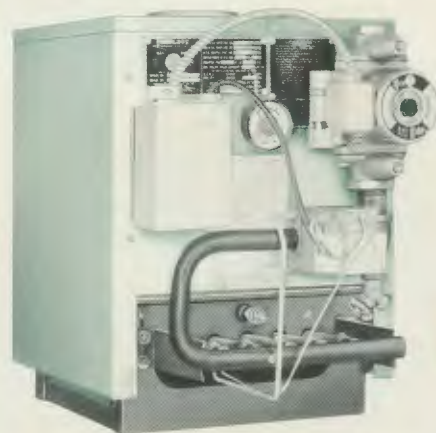
### A GREAT NAME IN HYDRONICS

The Peerless Heater Company of Boyertown, Pennsylvania has been manufacturing the finest in cast iron boilers since 1908. The Peerless Hydronic Systems provide the ultimate in the proper proportion of radiant and convected heat for steady, automatically controlled, heating comfort.



### BUILT-IN AIR ELIMINATOR

The Peerless Air Eliminator cast within the top boiler section traps the entrained air from the circulating water in the boiler. The air is then vented to the expansion tank or automatic air vent. This unique feature assures continuous air elimination after initial installation and purging of the system.



SERIES  
MMW  
60A, WC

**MINI  
BOILER**

The MMW-MINI Boiler was specifically designed for the SMALL HOME, APARTMENT, and PRE-FAB HOME. This space saving boiler will provide many years of trouble-free, low cost operation.



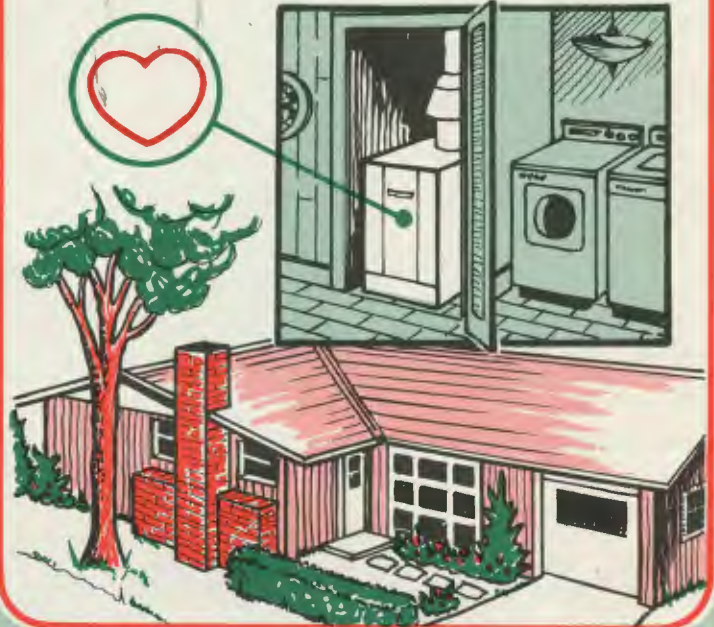
## MULTIPLE INSTALLATION



The "MMW" Boiler offers an opportunity for multiple installations with independent service to apartments. Separate meters, controls, and longer life make the "MMW" Boiler ideal as replacement or original equipment for apartment owners. Individually controlled heating units enhance the rental possibilities. "MMW" Boilers are also excellent for use in "Row" Type homes.

## COMPACT

Exceptionally small and efficient, the "MMW" is a natural installation for houses with basements, utility rooms, or play rooms. This space saving "MMW" Boiler offers additional room for work, hobby, and play. Actually adds a room to your house.



## MAXIMUM PERFORMANCE VALUES

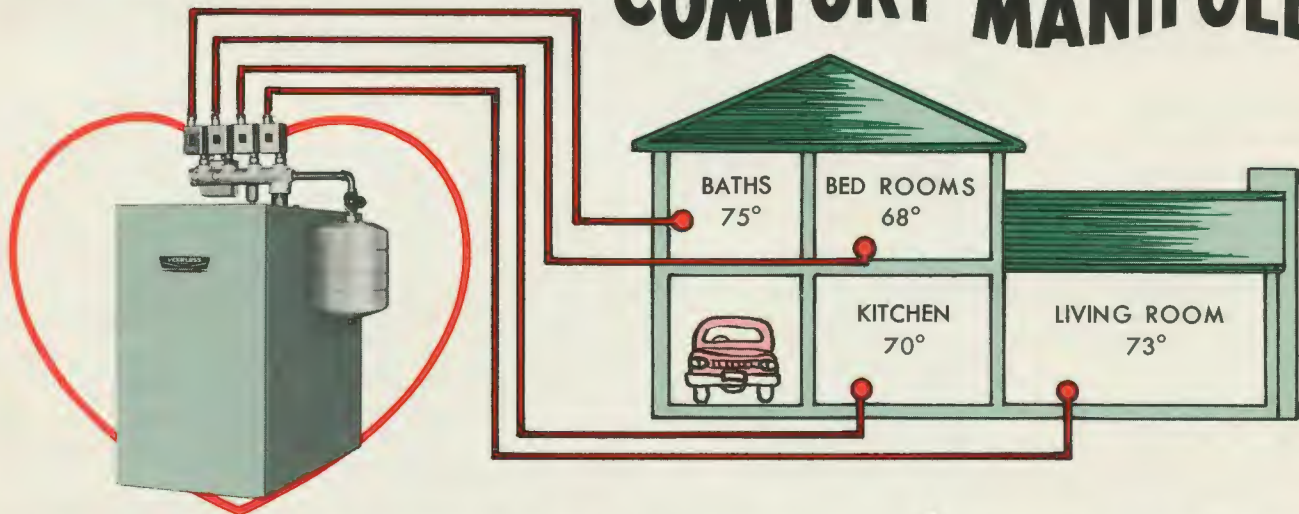
By incorporating the new advancements in engineering and design with over sixty years of experience, the Peerless Heater Company has been able to manufacture the truly maximum performance boiler — "MMW".



Peerless Boilers are manufactured in the heart of the Pennsylvania Dutch Country where the skill required in the making of quality cast iron has been prevalent for centuries.

# PEERLESS

# COMFORT MANIFOLD



The \*PEERLESS COMFORT MANIFOLD consists of two or more temperature controllers (zone valves) mounted on a cast iron manifold. This system provides the exact proportion of heat desired in two or more heating areas of the house. Each area shown in floor plan is independently controlled by room thermostats set to the desired temperature.

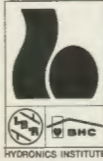
Low fuel consumption eliminates over-heating the entire house to obtain more heat in any specific area. The illustration shows the COMFORT MANIFOLD with four temperature controllers and diaphragm type expansion tank mounted on the special manifold. Air-water expansion tanks may also be used.



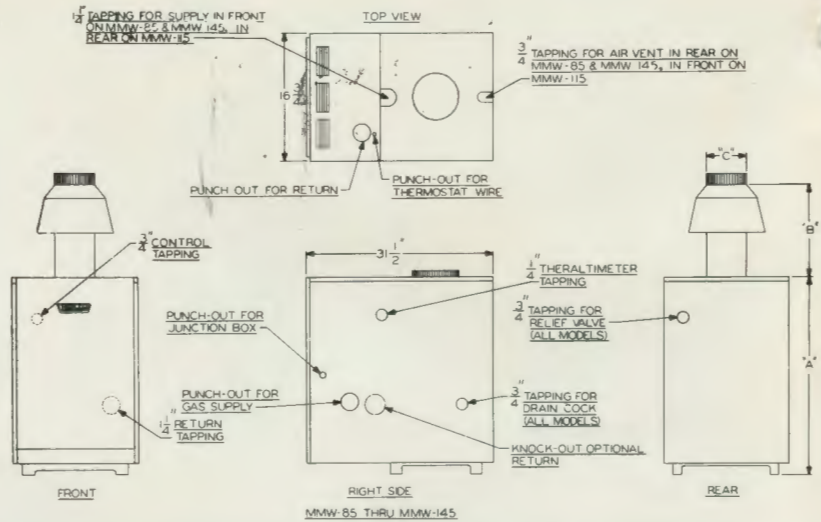
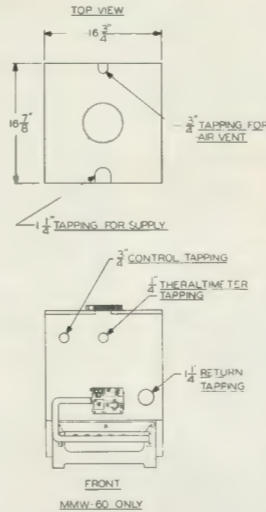
A.G.A.



MEMBER OF



Castings Mfg. by Eastern Foundry Company, A Division of Peerless Industries, Inc., Boyertown, Penna.



**NATURAL GAS**

Model Number	A.G.A. Input BTU/HR.	*Heating Capacity BTU/HR.	**Net I-B-R Rating BTU/HR.	***Net Rating Sq. Ft.	Supply Tapping	Return Tapping	Natural Gas Valve Size	Height "A" Dimen.	Draft Hood "B" Dimen.	Flue Outlet "C" Dimen.	Chimney Size
MMW-60A, WC	60,000	50,000	43,500	290	1 1/4"	1 1/4"	1/2"	24 1/2"	14 7/8"	5"	5" x 20'
MMW-85A, W, WC	85,000	69,000	60,000	460	1 1/4"	1 1/4"	1/2"	24 1/2"	14 7/8"	5"	5" x 20'
MMW-115A, W, WC	115,000	92,000	80,000	535	1 1/4"	1 1/4"	1/2"	27"	17 3/8"	5"	5" x 20'
MMW-145A, W, WC	145,000	117,000	101,700	680	1 1/4"	1 1/4"	1/2"	29 1/2"	25 1/2"	6"	6" x 20'

**PROPANE GAS**

Model Number	A.G.A. Input BTU/HR.	*Heating Capacity BTU/HR.	**Net I-B-R Rating BTU/HR.	***Net Rating Sq. Ft.	Supply Tapping	Return Tapping	Propane Gas Valve Size	Height "A" Dimen.	Draft Hood "B" Dimen.	Flue Outlet "C" Dimen.	Chimney Size
MMW-60A, WC	60,000	50,000	43,500	290	1 1/4"	1 1/4"	1/2"	24 1/2"	14 7/8"	5"	5" x 20'
MMW-85A, W, WC	85,000	69,000	60,000	460	1 1/4"	1 1/4"	1/2"	24 1/2"	14 7/8"	5"	5" x 20'
MMW-110A, W, WC	110,000	88,000	76,500	510	1 1/4"	1 1/4"	1/2"	27"	17 3/8"	5"	5" x 20'
MMW-140A, W, WC	140,000	113,000	98,300	655	1 1/4"	1 1/4"	1/2"	29 1/2"	25 1/2"	6"	6" x 20'

\*Heating Capacity determined in accordance with DOE Test Procedures.

\*\*The Net I-B-R Ratings shown include allowance for normal playing and pick-up load, in accordance with the Testing and Rating Standard for Low Pressure Cast Iron Heating Boilers of the Hydronics Institute. Water ratings are based on a piping and pick-up allowance factor of 1.15. The Peerless Heater Company should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as exposed piping, night shut-down, etc.

\*\*\*Net ratings based on Net I-B-R Ratings in BTU per hr. @ 170 boiler water temperature with heat emission of 150 BTU per sq. ft. THE RIGHT IS RESERVED BY THE MANUFACTURER TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

**STANDARD EQUIPMENT—  
FORCED HOT WATER (WC MODELS)**

- Complete Boiler Factory Assembled, Wired and Shipped in Dust Proof Carton.
- Deluxe Extended Steel Jacket, Insulated—High Grade Green Baked Enamel Finish.
- Cast Iron Water Tube Sections. Extra Heavy Duty Finned Surfaces. Special Built-In Air Eliminator.
- Factory Tested for 50 lb. Working Pressure.
- Slotted Port Main Burners.
- Honeywell LITE-RITE Combination Gas Valve (24 volt Std. or Milli-Volt Self Generating Optional)
- 100% Pilot Shut-Off
- Aquastat Relay (High Limit & Circulator Control)
- Low Voltage Thermostat.
- Circulator and Fittings—Assembled & Prewired.

**SHIPPED IN ONE SEPARATE CARTON**

- Therallimeter • Pressure Relief Valve (ASME) 30 lb.
- Drain Cock • Draft Hood • Flue Brush

**STANDARD EQUIPMENT—GRAVITY (W MODELS)**

- All Equipment for Forced Hot Water (WC Models) with the following exceptions:  
No Circulator & Fittings  
Limit Control replaces Aquastat Relay

**OPTIONAL ACCESSORIES**

- Floor Pan—Part No. MM-2004 for Installation on Combustible Floor.
- Peerless Comfort Manifold (Zone Manifold) with two (2) or more zone valves. (Packaged)
- Diaphragm Expansion Tank, Vent, Fill System. (Packaged)

**CARTON DIMENSIONS & SHIPPING WEIGHTS**

Model Number	Length "W" & "WC"	Width "W" & "WC"	Height "W" & "WC"	Approx. Shipping Weight	
				"W"	"WC"
MMW-60	33 3/4"	20 1/2"	26 1/4"	—	275#
MMW-85	33 3/4"	20 1/2"	26 1/4"	260 #	285#
MMW-115	33 3/4"	20 1/2"	28 3/4"	305 #	325#
MMW-145	33 3/4"	20 1/2"	31 1/2"	340 #	360#

DISTRIBUTED BY:

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908



## SERIES

# 61

### GAS-FIRED CAST IRON BOILER

INCLUDING  
COMPLETE FACTORY PACKAGES

## 13 SIZES

FOR USE WITH  
NATURAL AND  
PROPANE GASES  
HOT WATER OR  
STEAM SYSTEMS

90,000 to  
560,000

BTU/hr. Input



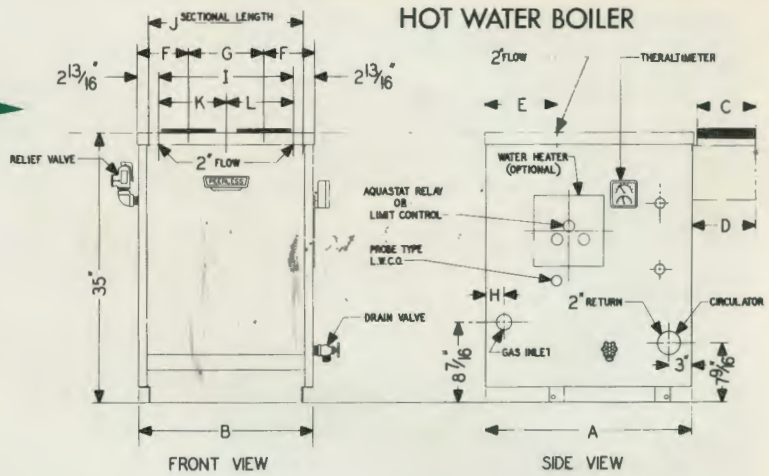
Castings-Certified by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

## SERIES 61 GAS-FIRED RESIDENTIAL CAST IRON BOILER

Castings-Certified by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512



### RATINGS & SPECIFICATIONS FOR NATURAL & PROPANE GASES

BOILER MODEL NUMBER S or W	A.G.A. INPUT BTU/hr.	*HEATING CAPACITY BTU/hr.	**NET I-B-R RATING				***NET WATER RATING Sq. Ft.	NUMBER OF SECTIONS	NUMBER OF BURNERS	NATURAL GAS			PROPANE GAS		NUMBER OF TAPPED INTER. SECTIONS	
			STEAM Sq. Ft.	STEAM BTU/hr.	WATER BTU/hr.	GAS VALVE SIZE				REG. SIZE	SHUTOFF VALVE SIZE	GAS VALVE SIZE	SHUTOFF VALVE SIZE			
G-361	90,000	73,000	230	54,800	63,500	425	3	4	1/2"	COMBINATION VALVE		1/2"	COMBINATION VALVE	—		
G-461	120,000	97,000	305	72,800	84,300	560	4	6	1/2"			1/2"		—		
G-561	160,000	130,000	405	97,500	113,000	755	5	8	1/2"			1/2"		—		
G-661	200,000	163,000	510	122,300	141,700	945	6	10	3/4"			1/2"		—		
G-761	240,000	196,000	615	147,000	170,400	1135	7	12	3/4"	COMB. AND STD. AUTO. VALVE		1/2"	COMBINATION VALVE	—		
G-861	280,000	230,000	720	172,500	200,000	1335	8	14	3/4"			1/2"		—		
G-961	320,000	256,000	800	192,000	222,600	1485	9	16	3/4"			1/2"		—		
G-1061	360,000	288,000	900	216,100	250,400	1670	10	18	3/4"			1/2"		—		
G-1161	400,000	320,000	1000	240,100	278,300	1855	11	20	3/4"	COMB. AND STD. AUTO. VALVE		3/4"	COMBINATION VALVE	—		
G-1261	440,000	352,000	1100	264,100	306,100	2040	12	22	1"			1"		3/4"	3/4"	1
G-1361	480,000	384,000	1200	288,100	333,900	2225	13	24	1"			1"		3/4"	3/4"	1
G-1461	520,000	416,000	1300	312,100	361,700	2410	14	26	1"			1"		3/4"	3/4"	1
G-1561	560,000	448,000	1400	336,100	389,600	2595	15	28	1"			1"		3/4"	3/4"	1

\*HEATING CAPACITY for:

- (a) Models G-361 through G-861 determined in accordance with DOE Test Procedures.
- (b) Models G-961 through G-1561 determined in accordance with ANSI Z21.13 Standard for Gas Fired Low Pressure Steam and Hot Water Heating Boilers.

\*\*The Net I-B-R Ratings shown include allowance for normal piping and pick-up load, in accordance with the Testing and Rating Standard for Low Pressure Cast Iron Heating Boilers of the Hydronics Institute. Water ratings are based on a piping and pick-up allowance factor of 1.15-steam ratings based on

### FACTORY PACKAGED WATER BOILERS

**(WP MODELS)**  
SHIPPED PACKAGED  
FACTORY ASSEMBLED  
AND WIRED

Models G-361-WP, G-461-WP, G-561-WP and G-661-WP are completely assembled, packaged and wired for gravity systems. Standard equipment same as BOILERS NOT PACKAGED less parts indicated for steam, with Limit Control.

**NO CIRCULATOR**  
**NO TANKLESS COIL**

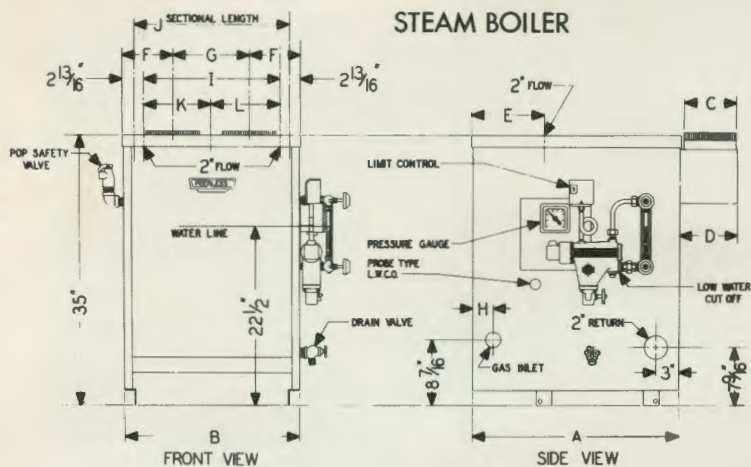
**(WPC MODELS)**  
SHIPPED PACKAGED  
FACTORY ASSEMBLED  
AND WIRED

Models G-361-WPC, G-461-WPC, G-561-WPC and G-661-WPC are completely assembled, packaged and wired for forced hot water systems and include circulator piped to unit. Standard equipment same as BOILERS NOT PACKAGED less parts indicated for steam. Aquastat Relay is provided in place of Limit Control.

**NO TANKLESS COIL**

Model Number	G-361WP	G-461WP	G-561WP	G-661WP
A.G.A. Input BTU/Hr.	90,000	120,000	160,000	200,000
Heating Capacity BTU/Hr.	73,000	97,000	130,000	163,000
CRATED DIMENSIONS	Height	39 1/2"	39 1/2"	39 1/2"
	Length	25 1/2"	29 1/2"	33 1/2"
	Depth	31"	31"	31"
Circulator	None	None	None	None
Tankless Coil	None	None	None	None
Approx. Shipping Wt.	436 Lbs.	534 Lbs.	623 Lbs.	714 Lbs.

Model Number	G-361WPC	G-461WPC	G-561WPC	G-661WPC
A.G.A. Input BTU/Hr.	90,000	120,000	160,000	200,000
Heating Capacity BTU/Hr.	73,000	97,000	130,000	163,000
CRATED DIMENSIONS	Height	39 1/2"	39 1/2"	39 1/2"
	Length	25 1/2"	29 1/2"	33 1/2"
	Depth	31"	31"	31"
Circulator	Yes	Yes	Yes	Yes
Tankless Coil	None	None	None	None
Approx. Shipping Wt.	456 Lbs.	554 Lbs.	643 Lbs.	734 Lbs.



## BOILERS NOT PACKAGED

### STANDARD EQUIPMENT—WATER or STEAM

**FACTORY ASSEMBLED SKID MOUNTED SECTIONS**  
Deluxe Insulated Steel Jacket Enameled—Provision for Tankless Water Heater.

**Model G361 thru G1161:** Gas control assy. includes 24 Volt comb. auto. gas valve with built-in gas pressure regulator, pilot shut-off valve, pilot filter, 100% safety shut-off and 3-position manual valve, 24 volt transformer. (G861 thru G1161 includes combination valve and standard auto. valve.) (Millivolt self-energizing system-optional). Consult factory.

**Model G1261 thru G1561:** Gas control assy. includes two (2) 24 Volt auto. gas valves, gas pressure regulator, manual shut-off valve, pilot shut-off valve, pilot filter and 100% pilot shut-off with SIP-1 electronic pilot system, 24 Volt transformer, limit and operating control.

Safety Pilot and Auxiliary Pilots, as required—Drain Cock—Theraltimeter (Water)—pressure relief valve (water) ASME 30 lbs.—Limit Control (Water or Steam)—Slotted Steel Burners—End Cleanout Door—Pilot Line Assembly—Horizontal to Vertical Draft Diverter—Side Outlet Pop Safety Valve (Steam) A.S.M.E. 15 Lbs.—Low Water Cut-Off (Steam)—Steam Gauge (Steam)—Gauge Glass & Fittings (Steam)—Water Heater Cover Plate—Tested for Working Pressure—Water 50 Lbs.—Steam 15 Lbs.

The Cast Iron Sections for Models G-361S or W thru G-761S or W are shipped as a single block assembly. For Models G-861S or W thru G-1561S or W the sections are shipped in two separate block assemblies requiring only one joint to assemble on the job.

## BOILER DIMENSIONS & TAPPING LOCATIONS FOR ALL GASES

BOILER MODEL NUMBER S or W	JACKET DEPTH	JACKET WIDTH	DRAFT DIVERTER DIAMETER	DRAFT DIVERTER EXT.	FRONT TO FLOW OUTLET	JACKET TO C/L DIVERTER	C/L DIVERTERS	C/L GAS INLET	C/L FLOW TAPPINGS	SECTIONAL LENGTH	CENTERS 2" TAPPED INTER. SECTION		LOCATION OF TAPPED INTER SECTION FROM LEFT	FLUE TO CHIMNEY DIAM.	CHIMNEY SIZE
	"A"	"B"	"C"	"D"	"E"	"F"	"G"	"H"	"I"	"J"	"K"	"L"			
G- 361	27 1/8"	14"	5"	5 3/4"	9 1/2"	7 5/16"	All Models One (1) Diverter Outlet Except G-961 thru G-1561	2 3/4"	9"	12"	—	—	—	5"	5' x 20'
G- 461	27 1/8"	18 3/4"	6"	6 3/4"	9 1/2"	9 3/8"		2 3/4"	13 1/8"	16 1/2"	—	—	—	6"	6' x 20'
G- 561	27 1/8"	22 1/8"	7"	7 3/4"	9 1/2"	11 7/16"		2 3/4"	17 1/4"	20 1/4"	—	—	—	7"	7' x 20'
G- 661	27 1/8"	27"	7"	7 3/4"	9 1/2"	13 1/2"		2 3/4"	21 3/8"	24 3/4"	—	—	—	7"	7' x 20'
G- 761	27 1/8"	31 1/8"	8"	9 3/4"	9 1/2"	15 9/16"	2 3/4"	25 1/2"	28 1/2"	—	—	—	8"	8' x 20'	
G- 861	30 3/8"	35 1/4"	8"	9 3/4"	11 1/2"	17 5/8"	4 3/4"	29 3/8"	32 3/8"	—	—	—	8"	8' x 20'	
G- 961	30 3/8"	39 3/8"	2-7"	7 3/4"	11 1/2"	13 3/8"	11 1/8"	4 3/4"	33 3/4"	36 3/4"	—	—	—	9"	9' x 20'
G-1061	30 3/8"	43 1/2"	2-7"	7 3/4"	11 1/2"	14 3/8"	13 3/4"	4 3/4"	37 3/8"	40 3/8"	—	—	—	9"	9' x 20'
G-1161	30 3/4"	47 3/4"	2-7"	7 3/4"	11 1/2"	15 7/8"	15 7/8"	4 3/4"	42"	45"	—	—	—	9"	9' x 20'
G-1261	30 3/4"	51 1/2"	2-8"	9 3/4"	11 1/2"	17 7/8"	16"	4 3/4"	46 5/8"	49 5/8"	25 1/2"	21"	7th	10"	10' x 20'
G-1361	30 3/4"	55"	2-8"	9 3/4"	11 1/2"	18 3/8"	18 3/8"	4 3/4"	50 1/4"	53 1/4"	25 5/8"	25 5/8"	7th	10"	10' x 20'
G-1461	30 3/4"	59 1/8"	2-8"	9 3/4"	11 1/2"	19 3/8"	20 1/4"	4 3/4"	54 3/8"	57 3/8"	29 1/4"	25 1/8"	8th	10"	10' x 20'
G-1561	30 3/4"	63 1/4"	2-8"	9 3/4"	11 1/2"	21 1/8"	20 1/4"	4 3/4"	58 1/2"	61 1/2"	29 3/4"	29 3/4"	8th	10"	10' x 20'

graduated factors in accordance with I-B-R Standard. The Peerless Heater Company should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as exposed piping, night shut-down, etc.

\*\*\*Net rating is based on Net I-B-R Rating in B.T.U. per hour at 170° boiler water temperature with heat emission of 150 B.T.U. per sq. ft.

MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE



### (WPCT MODELS) SHIPPED PACKAGED FACTORY ASSEMBLED AND WIRED

Models G-361-WPCT, G-461-WPCT, G-561-WPCT and G-661-WPCT are completely assembled, packaged and wired for forced hot water systems and include tankless coil (with flow control valve) and circulator piped to unit. Standard equipment same as BOILERS NOT PACKAGED less parts indicated for steam. Triple Aquastat Relay is provided in place of Limit Control.

### TANKLESS COIL INCLUDED

Model Number	G-361WPCT	G-461WPCT	G-561WPCT	G-661WPCT
A.G.A. Input BTU/Hr.	90,000	120,000	160,000	200,000
Heating Capacity BTU/Hr.	73,000	97,000	130,000	163,000
CRATED DIMENSIONS	Height	39 1/2"	39 1/2"	39 1/2"
	Length	25 1/2"	29 1/2"	33 1/2"
	Depth	31"	31"	31"
Circulator	Yes	Yes	Yes	Yes
Tankless Coil	Yes	Yes	Yes	Yes
Approx. Shipping Wt.	476 Lbs.	565 Lbs.	654 Lbs.	755 Lbs.

### TANKLESS DOMESTIC HOT WATER HEATER

(OPTIONAL)



### \*TANKLESS WATER HEATER RATINGS

BOILER MODEL NO.	HEATER NO. X-1020	HEATER NO. X-1021	HEATER NO. X-1022
G- 461-W	3.25	—	—
G- 561-W	3.50	—	—
G- 661-W	3.75	—	—
G- 761-W	4.00	—	—
G- 861-W	4.50	—	—
G- 961-W	4.75	—	—
G-1061-W	5.00	—	—
G-1161-W	5.25	6.25	6.5
G-1261-W	5.50	6.75	7.0
G-1361-W	5.50	7.00	7.5
G-1461-W	5.75	7.25	8.5
G-1561-W	5.75	7.25	9.0

\* WATER HEATER RATINGS IN GALLONS PER MINUTE ARE BASED ON INTERMITTENT DEMAND—40° TO 140° F RISE WITH 200° F BOILER WATER. Model G361-W available with heater No. X-1019.

CAUTION: Water mixing valve should always be installed in the hot water supply to prevent injury.

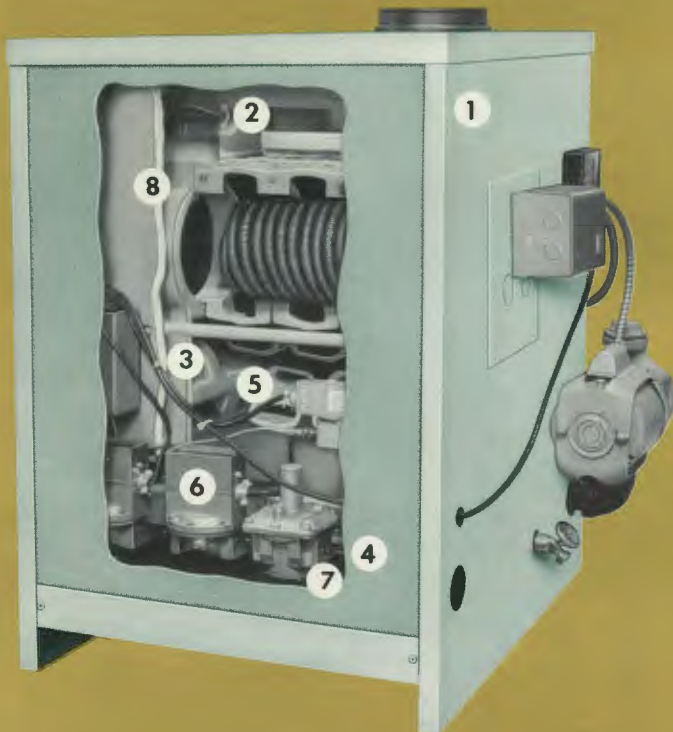


# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## ADVANCED DESIGN FEATURES



## SERIES 61 GAS BOILERS

- 1** Jacket, all steel two-toned green baked enamel finish. Low modern design with heavy glasswool insulation for maximum heat retention.
- 2** Horizontal to vertical flue collector and draft hood. Heights of flue outlet are constant regardless of boiler size. Ideal for boiler areas with low ceilings.
- 3** Cast iron (the lifetime metal) section blocks. Factory assembled, tested and shipped on heavy skid... permits easy on-the-job assembly.
- 4** Removable door (dark green finish) completely encloses burners and controls when door is in place.
- 5** Famous Peerless high offset water tubes of gray cast iron are sealed and spaced. This eliminates long iron-to-iron contact and allows free expansion and contraction.
- 6** Control assembly (24 volt automatic gas valve) is standard equipment. Rigid brackets bolt to base front providing a sturdy manifold assembly.
- 7** Burners are aluminized steel, and are one-unit slotted design.
- 8** Heavy glasswool insulated steel panel encloses boiler sections for greater heat retention. Controls are mounted forward of panel for easier access.

### STEAM BOILER CONTROLS

Controls and gauges are located conveniently on the steam boiler, making them more accessible for service or viewing.



### CLEANOUT DOORS

Cleanout doors on the jacket and end section permit easy access for cleaning to maintain constant high efficiency.



**THE PEERLESS  
HEATER COMPANY**  
BOYERTOWN, PENNSYLVANIA 19512

DISTRIBUTED BY

**PEERLESS**  
OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

**FACTORY**

**SERIES**

**61**

**SERIES**

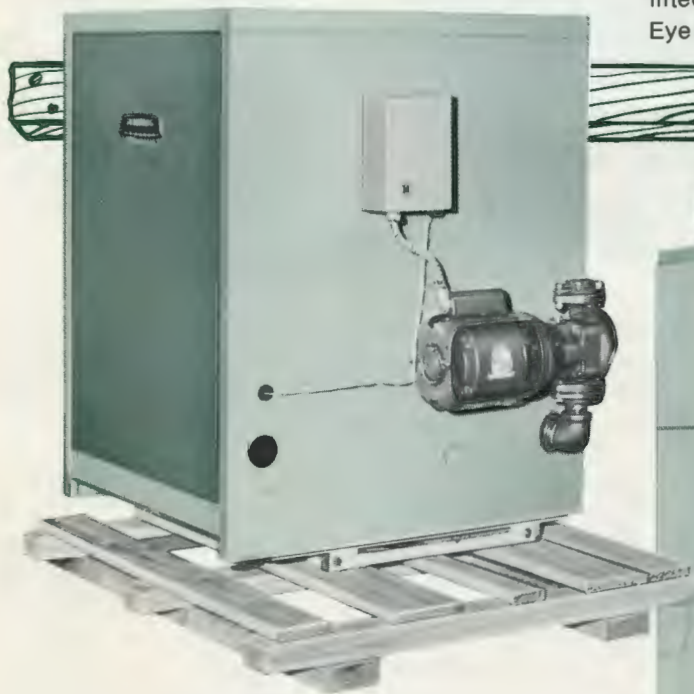
**211**

**PACKAGED**

(SPECIAL ORDER)

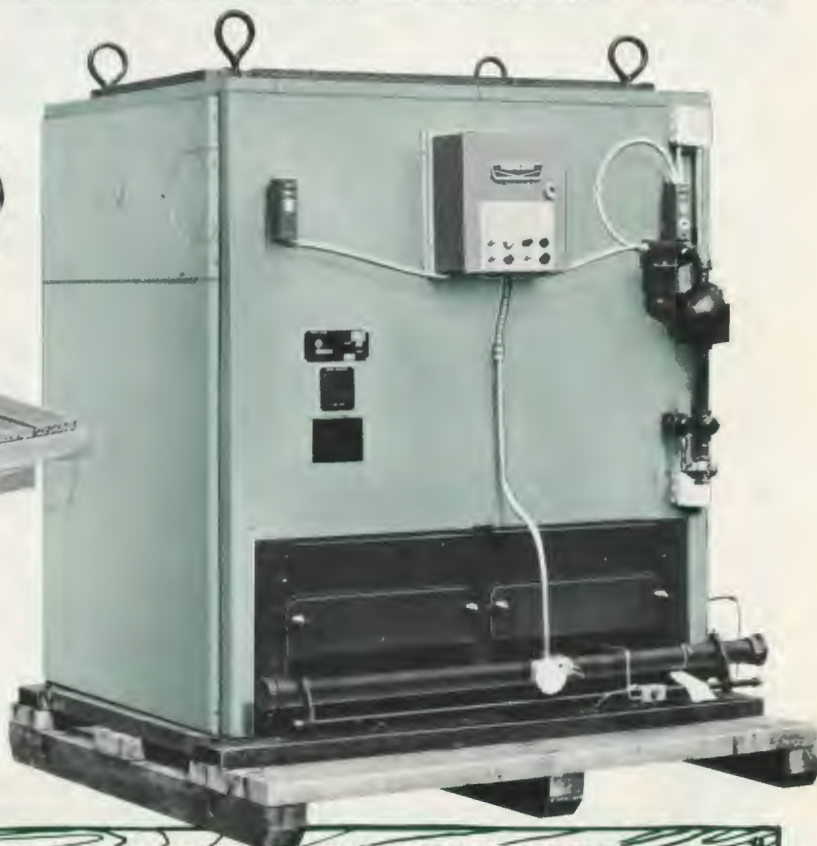
*GAS FIRED*  
**CAST IRON BOILERS**

The Series 61 and 211 Gas Fired Cast Iron Boilers are completely factory hydrostatically tested and packaged — ready for immediate installation. The boilers are shipped assembled and wired, including jacket, burners, and all controls. Eye bolts for lifting chains or cables are inserted on the end sections of the boiler. The entire boiler can then be lifted from carrier by a crane and positioned in the building. Eye bolts are then removed.

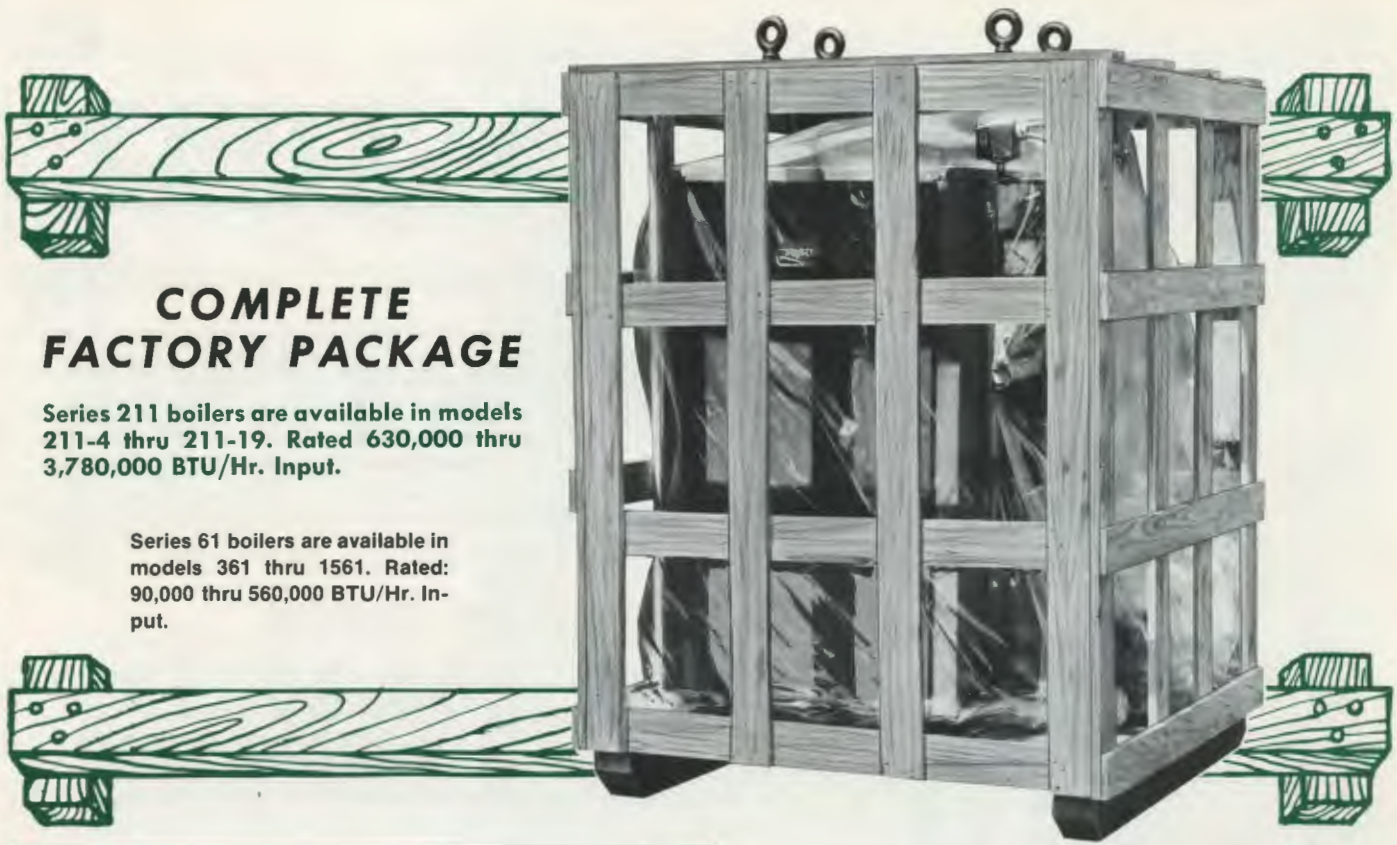


*Circulator available on  
Models 361 thru 661 only.*

Heavy duty oak skids on the bottom of the boilers permit moving by fork lift truck or with pipe rollers.



FOR BOILERS SHIPPED K-D REFER TO . . . . STANDARD LITERATURE



## COMPLETE FACTORY PACKAGE

Series 211 boilers are available in models 211-4 thru 211-19. Rated 630,000 thru 3,780,000 BTU/Hr. Input.

Series 61 boilers are available in models 361 thru 1561. Rated: 90,000 thru 560,000 BTU/Hr. Input.

Featured: SERIES 61

### CRATE DIMENSIONS AND SHIPPING WEIGHTS SERIES 211 PACKAGED GAS BOILER

Model No.	Length	Width	Height	Steel Burner Approx. Shipping Weight
211-4	37"	64"	77"	2640#
211-5	42"	64"	77"	3050#
211-6	48"	64"	77"	3615#
211-7	54"	64"	77"	4140#
211-8	59"	64"	77"	4560#
211-9	65"	64"	77"	4970#
211-10	71"	64"	77"	5590#
211-11	76"	64"	77"	6025#
211-12	81"	64"	77"	6570#
211-13	87"	64"	77"	7190#
211-14	92"	64"	77"	7740#
211-15	98"	64"	77"	8240#
211-16	104"	64"	77"	8650#
211-17	109"	64"	77"	9100#
211-18	115"	64"	77"	9440#
211-19	120"	64"	77"	9910#

A special heavy duty wooden crate protects the boilers during transportation and handling. A heavy gauge vinyl cover provides all weather protection.

Series 361 thru 661 NO eye bolts furnished.  
Series 761 thru 1561 crated with eye bolts.

### CRATE DIMENSIONS AND SHIPPING WEIGHTS SERIES 61 PACKAGED GAS BOILER

Model No.	Length	Width	Height	Approx. Shipping Weight
361	25½"	31"	39½"	456 lbs.
461	29½"	31"	39½"	554 lbs.
561	33½"	31"	39½"	643 lbs.
661	37½"	31"	39½"	734 lbs.
761	49"	31"	39½"	912 lbs.
861	53"	31"	39½"	1,029 lbs.
961	57"	31"	39½"	1,147 lbs.
1061	61"	31"	39½"	1,257 lbs.
1161	66"	31"	39½"	1,391 lbs.
1251	70"	31"	39½"	1,510 lbs.
1361	74"	31"	39½"	1,629 lbs.
1461	78"	31"	39½"	1,746 lbs.
1561	82"	31"	39½"	1,862 lbs.

FOR COMPLETE BOILER RATINGS, SPECIFICATIONS and DIMEN

# PACKAGED BASE & BLOCK SECTIONS

Series 211 boilers are also available in blocked sections and packaged bases.

The base completely factory assembled with burners and protected in a heavy duty skid bottom crate.



The entire base is protected against all weather with a heavy gauge vinyl covering.

## CRATE DIMENSIONS AND SHIPPING WEIGHTS SERIES 211 PACKAGED BASE

Model No.	Length	Width	Height	Approx. Shipping Wt. Steel Burners
211-4	35"	60"	25"	345#
211-5	41"	60"	25"	375#
211-6	46"	60"	25"	405#
211-7	52"	60"	25"	440#
211-8	57"	60"	25"	475#
211-9	63"	60"	25"	505#
211-10	68"	60"	25"	535#
211-11	74"	60"	25"	560#
211-12	80"	60"	25"	590#
211-13	85"	60"	25"	620#
211-14	91"	60"	25"	650#
211-15	96"	60"	25"	680#
211-16	102"	60"	25"	710#
211-17	107"	60"	25"	740#
211-18	113"	60"	25"	770#
211-19	119"	60"	25"	800#

## DIMENSIONS AND SHIPPING WEIGHTS SERIES 211 GAS BOILER BLOCK

Model No.	Block Length	Block Width	Block Height	Approx. Shipping Weight
211-4	22"	46"	40"	1640#
211-5	28"	46"	40"	2055#
211-6	33"	46"	40"	2465#
211-7	39"	46"	40"	2875#
211-8	44"	46"	40"	3285#
211-9	50"	46"	40"	3695#
211-10	55"	46"	40"	4100#
211-11	61"	46"	40"	4505#
211-12	67"	46"	40"	4915#
211-13	72"	46"	40"	5330#
211-14	78"	46"	40"	5735#
211-15	83"	46"	40"	6150#
211-16	89"	46"	40"	6555#
211-17	94"	46"	40"	6960#
211-18	100"	46"	40"	7370#
211-19	105"	46"	40"	7780#

Blocked sections are shipped as shown. They can be handled by crane, fork lift or pipe rolled.



ADDITIONAL DRAWINGS REFER TO Series 61 and 211 LITERATURE.

# HANDLING EASE... with CRANE or FORK LIFT

Eye bolts in section blocks permit easy attachment of chains or cables for lifting. A heavy duty skid bottom crate provides easy handling by fork lift.



Peerless packaged boilers have many advantages because of their cast iron construction which is not normally associated with packaged boilers. Cast iron offers longer life because the as-cast skin of the sections is highly resistant to corrosion. Peerless cast iron boilers are easy to maintain thus offering greater full life efficiency.

## THE PEERLESS HEATER COMPANY

DIV. OF PEERLESS INDUSTRIES, INC.

BOYERTOWN, PENNSYLVANIA 19512

**PEERLESS  
HEAT**

SINCE 1908

DISTRIBUTED BY:

# PEERLESS

OF BOYERTOWN PENNSYLVANIA

SINCE 1908

## Series 61

GAS FIRED  
CAST IRON BOILERS

FACTORY  
PACKAGED  
"STEAM  
MODELS"

FOUR (4) SIZES

RATED

90,000

TO

200,000

INPUT BTU/hr



### STEAM PACKAGES

The Series "61" Cast Iron Gas Fired Boiler incorporates many outstanding engineering and design features in keeping with modern day residential and commercial architectural plans.

The Series "61" is a modern cast iron hydronic heating boiler, compact, and attractive, providing the exact proportion of heat for steady economical heating comfort.



A.G.A.



MEMBER OF



Advanced Hydronic Heating

Castings Certified by  
Eastern Foundry Company.  
A Division of Peerless Industries, Inc.,  
Boyertown, Penna.

THE PEERLESS HEATER COMPANY

DIV. OF PEERLESS INDUSTRIES, INC.

BOYERTOWN, PENNSYLVANIA 19512

PEERLESS

HEAT

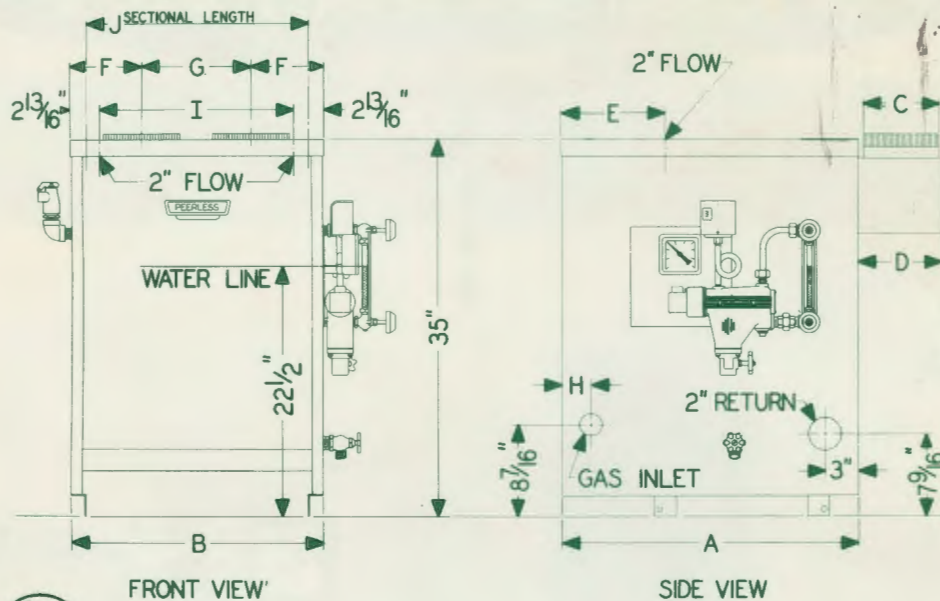
SINCE

1908

# Series 61

## GAS FIRED CAST IRON BOILERS

SPECIFICATIONS, RATINGS  
DIMENSIONAL DRAWINGS  
"STEAM PACKAGES"



### STANDARD EQUIPMENT

Standard equipment, assembled on the boiler, as follows: Deluxe Insulated Steel Jacket—Combination Gas Controls Assembly 24 volt, includes automatic Gas valve—Gas pressure regulator—Pilot shut-off valve—Pilot filter—100% shut-off and manual gas valve—Safety pilot—Low water cut off—Limit control—Slot type steel burners and End clean out door.

Other standard equipment packed in a separate carton and shipped with boiler is as follows: Horizontal to vertical draft diverter—Drain cock—ASME Side outlet pop safety valve 15 lbs.—Pressure gauge—Gauge glass and fittings.



### RATINGS AND SPECIFICATIONS FOR NATURAL AND PROPANE GASES

BOILER MODEL NUMBER	A.G.A. INPUT BTU/Hr.	*HEATING CAPACITY BTU/Hr.	**NET I.B.R. RATING		NUMBER OF SECTIONS	NUMBER OF BURNERS	NATURAL GAS			PROPANE GAS		
			Steam Sq. Ft.	Steam BTU/Hr.			Gas Valve Size	Reg. Size	Shutoff Valve Size	Gas Valve Size	Reg. Size	Shutoff Valve Size
G-361 SP	90,000	73,000	230	54,800	3	4	1/2"	COMBINATION VALVE		1/2"	COMBINATION VALVE	
G-461 SP	120,000	97,000	305	72,800	4	6	1/2"			1/2"		
G-561 SP	160,000	130,000	405	97,500	5	8	1/2"			1/2"		
G-661 SP	200,000	163,000	510	122,300	6	10	3/4"			1/2"		

### DIMENSIONAL DATA FOR ALL GASES

BOILER MODEL NUMBER	SECTIONAL LENGTH "J"	JACKET DEPTH "A"	JACKET WIDTH "B"	DRAFT DIVERTER DIA. "C"	DRAFT DIVERTER EXT. "D"	FRONT TO FLOW OUTLET "E"	JACKET TO C/L DIVERTER **F"	C/L GAS INLET "H"	C/L FLOW TAPPINGS "I"	FLUE TO CHIMNEY DIA.	CHIMNEY SIZE
G-361 SP	12"	27 1/8"	14 5/8"	5"	5 3/4"	9 1/2"	7 1/8"	2 3/4"	9"	5"	5" x 20'
G-461 SP	16 1/8"	27 1/8"	18 3/4"	6"	6 3/4"	9 1/2"	9 3/8"	2 3/4"	13 1/8"	6"	6" x 20'
G-561 SP	20 1/4"	27 1/8"	22 7/8"	7"	7 3/4"	9 1/2"	11 1/8"	2 3/4"	17 1/4"	7"	7" x 20'
G-661 SP	24 3/8"	27 1/8"	27"	7"	7 3/4"	9 1/2"	13 1/2"	2 3/4"	21 3/8"	7"	7" x 20'

\* One Diverter with Center Outlet.

\*\* The Net I-B-R Ratings shown include allowance for normal piping loss and pick-up load, in accordance with the Testing and Rating Standard for Low Pressure Cast Iron Heating Boilers of The Hydronics Institute. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pick-up requirements. The right is reserved by the manufacturer to make changes at any time without notice.

### BOILERS FACTORY PACKAGED (SP MODELS) STEAM

Models G-361SP thru G-661SP are shipped— assembled, wired and factory packaged, ready for immediate installation.

Model Number	G-361SP	G-461SP	G-561SP	G-661SP
A.G.A. Input BTU/Hr.	90,000	120,000	160,000	200,000
Heating Capacity BTU/Hr.	73,000	97,000	130,000	163,000
CRATED DIMENSIONS	Height	39 1/2"	39 1/2"	39 1/2"
	Length	25 1/2"	29 1/2"	33 1/2"
	Depth	31"	31"	31"
Approx. Shipping Wt.	412 Lbs.	526 Lbs.	601 Lbs. *	697 Lbs.

DISTRIBUTED BY:

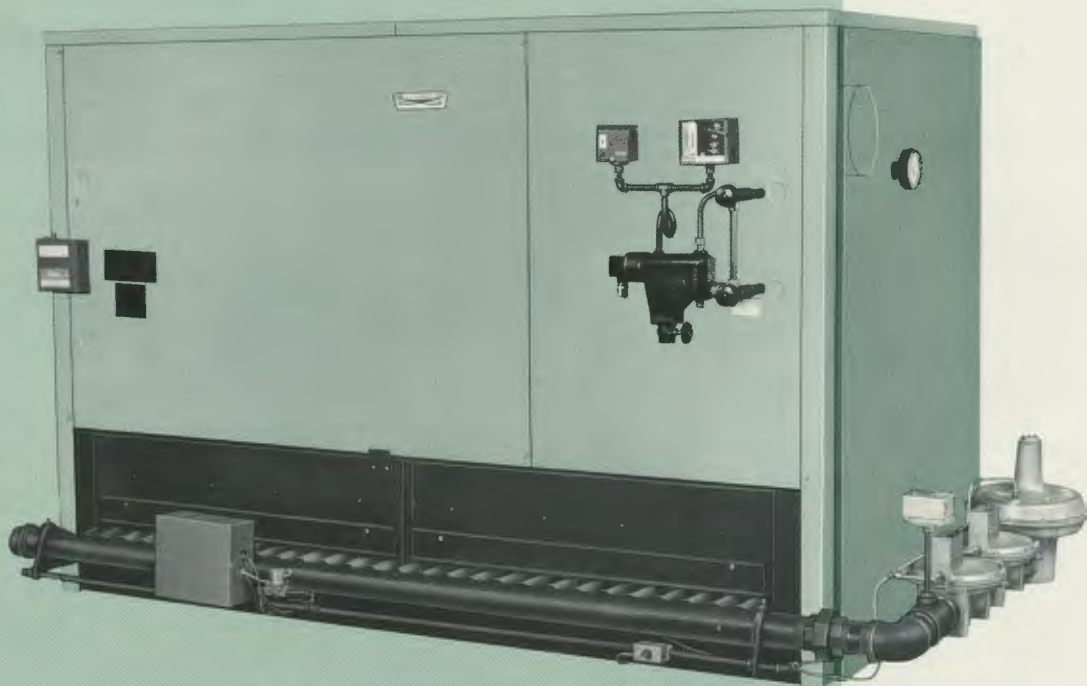
# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES 211

**GAS-FIRED  
INDUSTRIAL/COMMERCIAL  
CAST IRON BOILER**



211-15S ILLUSTRATED

### 43 SIZES

FOR HOT WATER  
OR STEAM

FOR USE  
WITH NATURAL  
& PROPANE GASES

630,000 to  
9,450,000  
BTU/hr. Input



Castings-Mfg. by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512



# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES 211 GAS-FIRED INDUSTRIAL/COMMERCIAL CAST IRON BOILER

Mfg. by Eastern Foundry Company, A Division of Peerless Industries, Inc., Boyertown, PA 19512

### ORDERING INFORMATION

#### SPECIFY:

- Water — Steam Example: 211-10S or 211-10W.
- For 80 Lb. W.P. boilers, specify "WT" Example: 211-10WT.
- Natural Gas: Specify B.T.U., specific gravity of gas and supply gas pressure.
- Example: 1020 B.T.U. .60 S.G. 10" WC
- Propane Gas: Specify B.T.U. and specific gravity of gas Example: 2500 B.T.U. 1.50 S.G. 14" W.C.
- Flush or Deluxe Jacket



Natural Gas								Propane Gas 2500 B.T.U.								Draft Hoods Number & Size	Flue Size to Stack	Chimney Size
Boiler No.	A.G.A. — C.G.A. Input M.B.H.	A.G.A. — C.G.A. Output M.B.H.	Boiler H.P.	**NET I.B.R. RATING			*Net Water Sq. Ft.	Gas Connection Size	A.G.A. — C.G.A. Input M.B.H.	A.G.A. — C.G.A. Output M.B.H.	**NET I.B.R. RATING			Gas Connection Size				
				Steam Sq. Ft.	Steam B.T.U. per Hr. M.B.H.	Water B.T.U. per Hr. M.B.H.					Steam Sq. Ft.	Steam B.T.U. per Hr. M.B.H.	Water B.T.U. per Hr. M.B.H.					
211-4	630	504	15	1,575	378.1	438.3	2,920	1 1/4"	615	492	1,540	369.1	427.8	1"	1-12"	12"	12"x20"	
211-5	840	672	20	2,100	504.1	584.3	3,895	1 1/4"	820	656	2,050	492.1	570.4	1"	1-12"	12"	12"x20"	
211-6	1,050	840	25	2,625	630.2	730.4	4,870	1 1/4"	1,025	820	2,565	615.2	713.0	1"	1-14"	14"	14"x20"	
211-7	1,260	1,008	30	3,150	756.2	876.5	5,845	1 1/2"	1,230	984	3,075	738.2	855.7	1"	2-12"	14"	14"x20"	
211-8	1,470	1,176	35	3,675	882.2	1,022.6	6,820	1 1/2"	1,435	1,148	3,590	861.2	998.3	1 1/4"	2-12"	15"	15"x20"	
211-9	1,680	1,344	40	4,230	1,015.1	1,168.7	7,790	2"	1,640	1,312	4,120	988.7	1,140.9	1 1/4"	2-12"	16"	16"x20"	
211-10	1,890	1,512	45	4,815	1,155.1	1,314.8	8,765	2"	1,845	1,476	4,690	1,125.0	1,283.5	1 1/2"	2-14"	17"	17"x20"	
211-11	2,100	1,680	50	5,395	1,295.3	1,460.9	9,740	2"	2,050	1,640	5,255	1,261.5	1,426.1	1 1/2"	2-14"	18"	18"x20"	
211-12	2,310	1,848	55	5,970	1,432.6	1,607.0	10,715	2"	2,255	1,804	5,820	1,397.4	1,568.7	1 1/2"	3-12"	18"	18"x20"	
211-13	2,520	2,016	60	6,520	1,565.2	1,753.0	11,685	2"	2,460	1,968	6,365	1,527.9	1,711.3	2"	3-12"	19"	19"x20"	
211-14	2,730	2,184	65	7,065	1,695.7	1,899.0	12,660	2"	2,665	2,132	6,895	1,655.3	1,853.9	2"	3-14"	20"	20"x20"	
211-15	2,940	2,352	70	7,610	1,826.1	2,045.2	13,635	2 1/2"	2,870	2,296	7,430	1,782.6	1,996.5	2"	3-14"	21"	21"x20"	
211-16	3,150	2,520	75	8,150	1,956.5	2,191.3	14,610	2 1/2"	3,075	2,460	7,960	1,909.9	2,139.1	2"	3-14"	21"	21"x20"	
211-17	3,360	2,688	80	8,695	2,087.0	2,337.4	15,585	2 1/2"	3,280	2,624	8,490	2,037.3	2,281.7	2"	4-14"	22"	22"x20"	
211-18	3,570	2,856	85	9,240	2,217.4	2,483.5	16,555	2 1/2"	3,485	2,788	9,020	2,164.6	2,424.3	2"	4-14"	23"	23"x20"	
211-19	3,780	3,024	90	9,785	2,347.8	2,629.6	17,530	(2) 1 1/2"	3,690	2,952	9,550	2,291.9	2,567.0	2"	4-14"	23"	23"x20"	
211-20	3,990	3,192	95	10,320	2,476.7	2,773.9	18,495	(2) 2"	3,895	3,116	10,095	2,422.4	2,713.0	(2) 1 1/2"	4-14"	24"	24"x20"	
211-21	4,200	3,360	100	10,870	2,608.7	2,921.7	19,480	(2) 2"	4,100	3,280	10,610	2,546.6	2,852.2	(2) 1 1/2"	4-14"	25"	25"x20"	
211-22	4,410	3,528	105	11,420	2,740.7	3,069.6	20,465	(2) 2"	4,305	3,444	11,130	2,670.8	2,991.3	(2) 1 1/2"	5-14"	25"	25"x20"	
211-23	4,620	3,696	110	11,970	2,872.7	3,217.4	21,450	(2) 2"	4,510	3,608	11,680	2,802.8	3,139.1	(2) 1 1/2"	5-14"	26"	26"x20"	
211-24	4,830	3,864	115	12,485	2,996.9	3,356.5	22,375	(2) 2"	4,715	3,772	12,195	2,927.0	3,278.3	(2) 2"	5-14"	26"	26"x20"	
211-25	5,040	4,032	120	13,035	3,128.9	3,504.3	23,360	(2) 2"	4,920	3,936	12,745	3,059.0	3,426.1	(2) 2"	5-14"	27"	27"x20"	
211-26	5,250	4,200	125	13,585	3,260.9	3,652.2	24,350	(2) 2"	5,125	4,100	13,265	3,183.2	3,565.2	(2) 2"	5-14"	27"	27"x20"	
211-27	5,460	4,368	130	14,135	3,392.9	3,800.0	25,335	(2) 2"	5,330	4,264	13,780	3,307.5	3,704.3	(2) 2"	6-14"	28"	28"x20"	
211-28	5,670	4,536	135	14,685	3,524.8	3,947.8	26,320	(2) 2 1/2"	5,535	4,428	14,330	3,439.4	3,852.2	(2) 2"	6-14"	29"	29"x20"	
211-29	5,880	4,704	140	15,205	3,649.1	4,087.0	27,245	(2) 2 1/2"	5,740	4,592	14,850	3,563.7	3,991.3	(2) 2"	6-14"	29"	29"x20"	
211-30	6,090	4,872	145	15,755	3,781.1	4,234.8	28,230	(2) 2 1/2"	5,945	4,756	15,400	3,695.7	4,139.1	(2) 2"	6-14"	30"	30"x20"	
211-31	6,300	5,040	150	16,305	3,913.0	4,382.6	29,220	(2) 2 1/2"	6,150	4,920	15,915	3,819.9	4,278.3	(2) 2"	6-14"	30"	30"x20"	
211-32	6,510	5,208	155	16,855	4,045.0	4,530.4	30,205	(2) 2 1/2"	6,355	5,084	16,435	3,944.1	4,417.4	(2) 2"	7-14"	31"	31"x20"	
211-33	6,720	5,376	160	17,405	4,177.0	4,678.3	31,190	(2) 2 1/2"	6,560	5,248	16,985	4,076.1	4,565.2	(2) 2"	7-14"	31"	31"x20"	
211-34	6,930	5,544	165	17,920	4,301.2	4,817.4	32,115	(2) 2 1/2"	6,765	5,412	17,500	4,200.3	4,704.3	(2) 2"	7-14"	32"	32"x20"	
211-35	7,140	5,712	170	18,470	4,433.2	4,965.2	33,100	(2) 2 1/2"	6,970	5,576	18,050	4,332.3	4,852.2	(2) 2"	7-14"	32"	32"x20"	
211-36	7,350	5,880	175	19,020	4,565.2	5,113.0	34,085	(2) 2 1/2"	7,175	5,740	18,570	4,456.5	4,991.3	(2) 2"	7-14"	33"	33"x20"	
211-37	7,560	6,048	180	19,570	4,697.2	5,260.9	35,075	(2) 2 1/2"	7,380	5,904	19,085	4,580.7	5,130.4	(2) 2"	8-14"	33"	33"x20"	

\* Net ratings based on Net I=B=R Ratings in BTU per hr. @ 170 degrees F. boiler water temperature with heat emission of 150 BTU per sq. ft.

\*\* The Net I=B=R Ratings shown include allowance for normal piping and pickup load in accordance with Testing and Rating standard for Low Pressure Cast Iron Heating Boilers of the Hydronics Institute. Water ratings are based on piping and pickup allowance factor of 1.15. Steam ratings based on graduated factors in accordance with The Hydronics Institute standard. The Peerless Heater Company should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pickup requirements, such as exposed piping, night shutdown, etc.

Ratings shown are for elevations up to 2,000 feet. For elevations above 2,000 feet ratings should be reduced at the rate of 4 percent for each 1,000 feet above sea level.

### All AGA certified equipment for:

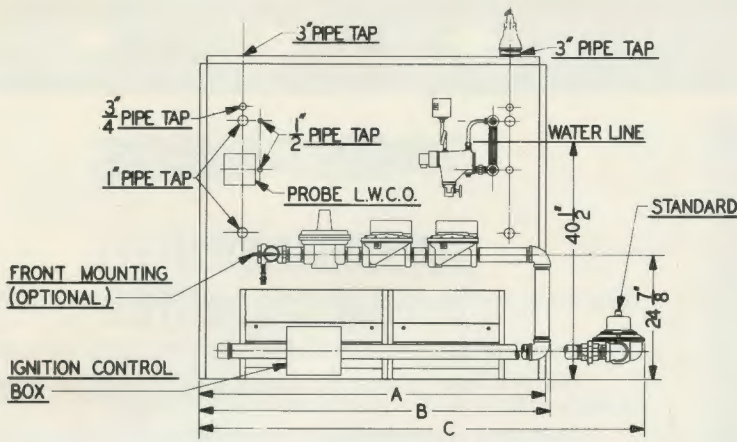
1. Natural Gas require an inlet gas pressure at the manual valve of 5 in. W.C. minimum to 14 in. in W.C. maximum. Where inlet pressure exceeds 14 in. W.C., a service gas pressure regulator of the lock-up type must be installed in the gas supply piping to the boiler.
2. Propane gas requires an inlet gas pressure at the manual valve of 12.5 in. W.C. minimum to 14 in. W.C. maximum. Where inlet pressure exceeds 14 in. W.C. a service gas pressure regulator of the lock-up type must be installed in the gas supply piping to the boiler.

The "Flue Size to Stack" and "Chimney Size" for each boiler model may be decreased two (2) inches in diameter if the chimney height is increased to 30 feet.

Minimum chimney height of 20 feet is based on using 6 feet of lateral connector at flue size shown from the nearest draft divertor outlet with no more than one standard 90 deg. elbow. If individual vertical vent(s) are used for the same size as the draft divertor outlet(s), the height may be reduced to 5 feet measured above draft divertor outlet(s).

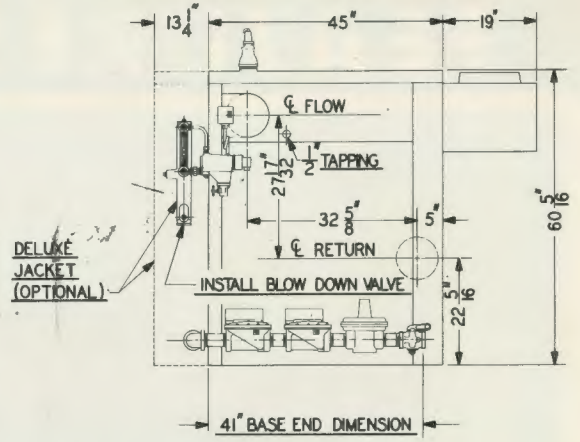
"Total Chimney Height" is the measured vertical distance between the draft hood outlet and the chimney top.

A vertical riser height of 3 to 5 feet from the draft hoods to the breeching is required to maintain satisfactory draft conditions.



**FRONT VIEW — SINGLE CONTROLS**

Controls: End Mounted Standard. Front Mounted Optional.



**END VIEW — FLUSH or DELUXE JACKET**

Controls: End Mounted Standard. Front Mounted Optional.

Boiler Model Number	Dimensions Length and Width			Center Line Dimensions—3" Tapping Supply & Return Intermediate Tapped Sections (Steam Only)										Center Line Dimensions Draft Divertors				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
211-4	27 3/4"	30 3/4"	38 3/4"										10 7/8"					
211-5	33 3/4"	36 3/4"	44 1/2"										13 3/8"					
211-6	39"	41"	50 1/4"										16 1/2"					
211-7	44 3/4"	47 3/4"	55 3/4"										10 7/8"	16 7/8"				
211-8	50 1/4"	54 1/4"	61 3/4"										10 7/8"	19 3/8"				
211-9	55 3/4"	59 3/4"	68 3/4"										13 3/8"	22 1/2"				
211-10	61 1/2"	65 1/2"	73 3/4"										13 3/8"	25 3/8"				
211-11	67 1/8"	71 1/8"	79 3/4"										16 1/2"	28 3/4"				
211-12	72 3/4"	76 3/4"	85"										10 7/8"	19 3/8"	22 1/2"			
211-13	78 3/4"	82 3/4"	90 3/4"										13 3/8"	22 1/2"	22 1/2"			
211-14	84"	88"	96 1/4"										13 3/8"	25 3/8"	25 3/8"			
211-15	89 3/4"	93 3/4"	104 3/4"										16 1/2"	25 3/8"	25 3/8"			
211-16	95 1/4"	99 1/4"	110 3/8"										16 1/2"	28 1/8"	28 1/8"			
211-17	100 3/4"	104 3/4"	116"										13 3/8"	22 1/2"	22 1/2"	22 1/2"		
211-18	106 1/2"	110 1/2"	121 1/8"	47 1/2"								53"	13 3/8"	22 1/2"	22 1/2"	25 3/8"		
211-19	112 1/4"	116 3/4"	127 1/4"	47 1/2"								58 3/4"	13 3/8"	22 1/2"	25 3/8"	28 1/4"		
211-20	117 3/4"	125 3/4"	142 1/4"	53 1/4"								58 3/4"	13 3/8"	25 3/8"	28 1/8"	28 1/8"		
211-21	123 3/4"	131 3/4"	147 3/4"	53 1/4"								64 1/4"	16 1/2"	28 1/8"	28 1/8"	28 1/8"		
211-22	129"	137"	153 1/2"	36 1/4"	45"							41 3/4"	13 3/8"	22 1/2"	22 1/2"	22 1/2"	25 3/8"	
211-23	134 3/4"	142 3/4"	159 3/8"	36 1/4"	50 3/8"							41 3/4"	13 3/8"	22 1/2"	22 1/2"	25 3/8"	28 1/8"	
211-24	140 1/4"	148 1/4"	164 3/4"	41 7/8"	45"							47 3/8"	13 3/8"	22 1/2"	25 3/8"	28 1/8"	28 1/8"	
211-25	145 3/4"	153 3/4"	170 3/4"	36 1/4"	33 3/4"	33 3/4"						36 1/4"	13 3/8"	25 3/8"	28 1/8"	28 1/8"	28 1/8"	
211-26	151 1/2"	159 1/2"	176"	36 1/4"	39 3/4"	33 3/4"						36 1/4"	16 1/2"	28 1/8"	28 1/8"	28 1/8"	28 1/8"	
211-27	157 1/8"	165 1/8"	181 3/8"	30 3/8"	28 3/8"	28 3/8"	28 3/8"					36 1/4"	13 3/8"	22 1/2"	22 1/2"	22 1/2"	25 3/8"	
211-28	162 3/4"	170 3/4"	193"	30 3/8"	33 3/4"	33 3/4"	33 3/4"					24 7/8"	13 3/8"	22 1/2"	22 1/2"	25 3/8"	28 1/4"	
211-29	168 3/8"	176 3/8"	198 3/8"	25"	28 1/8"	28 1/8"	28 1/8"	28 1/8"				24 7/8"	13 3/8"	22 1/2"	25 3/8"	28 1/4"	28 1/4"	
211-30	174"	182"	204 1/4"	25"	28 1/8"	28 1/8"	28 1/8"	28 1/8"				30 1/2"	13 3/8"	25 3/8"	28 1/8"	28 1/8"	28 1/8"	
211-31	179 3/4"	187 3/4"	109 3/4"	30 3/4"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"			30 1/2"	16 1/2"	28 1/8"	28 1/8"	28 1/8"	28 1/8"	
211-32	185 1/4"	193 1/4"	215 1/2"	30 3/4"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	28 1/8"			24 7/8"	13 3/8"	22 1/2"	22 1/2"	22 1/2"	25 3/8"	
211-33	190 3/4"	198 3/4"	221 1/4"	25"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"		24 7/8"	13 3/8"	22 1/2"	22 1/2"	25 3/8"	28 1/4"	
211-34	196 1/2"	204 1/2"	226 3/4"	25"	22 1/2"	22 1/2"	28 1/8"	22 1/2"	22 1/2"	22 1/2"		24 7/8"	13 3/8"	22 1/2"	25 3/8"	28 1/4"	28 1/4"	
211-35	202 1/4"	210 1/4"	232 3/8"	25"	22 1/2"	22 1/2"	28 1/8"	22 1/2"	28 1/8"	22 1/2"		24 7/8"	13 3/8"	25 3/8"	28 1/4"	28 1/4"	28 1/4"	
211-36	207 3/4"	215 3/4"	238"	19 3/4"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"		24 7/8"	16 1/2"	28 1/8"	28 1/8"	28 1/8"	28 1/8"	
211-37	213 3/4"	221 3/4"	243 3/4"	19 3/4"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"	22 1/2"		30 1/2"	13 3/8"	22 1/2"	22 1/2"	22 1/2"	25 3/8"	

A.G.A. Certified as Central Heating Boilers

CAUTION: Water mixing valve should always be installed in the hot water supply to prevent injury.

**SPECIFICATIONS**

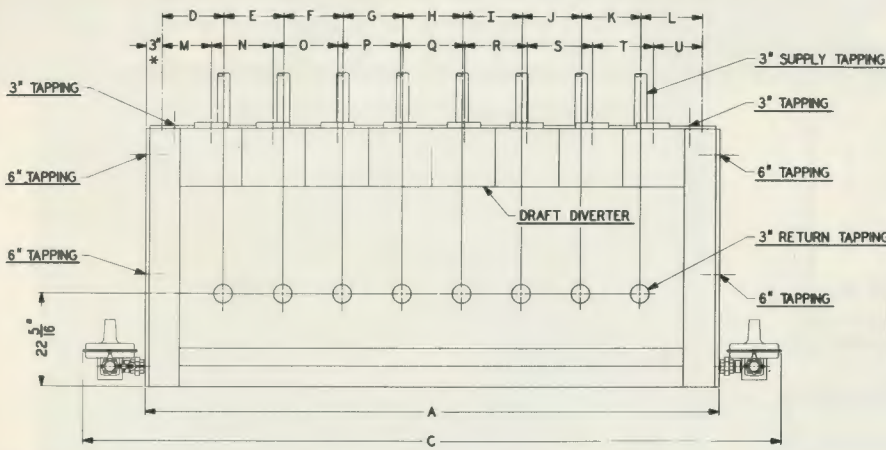
(S) Standard (O) Optional (-) Does not apply

	Working Pressure PSIG			Water 50 80	Steam 15		Working Pressure PSIG			Water 50 80	Steam 15
	50	80	15				50	80	15		
Maximum Working Pressure	S	O	S			Assembled Gas Control Train To Meet AGA	S	S	S		
Cast Iron Finned Water Tube Sections	S	S	S			Includes: Main and Pilot S.O. Valves;	S	S	S		
Gasketed Flow Ports	S	S	S			Main gas pressure regulator.	O	O	O		
Insulated Enameled Steel Jacket —						Two (2) Auto. Safety S.O. Valves;	S	S	S		
Flush Type	S	S	S			IRI and FM Gas Control Trains	O	O	O		
Extended Type	O	O	O			Controls 24V	S	S	S		
Removeable End Cleanout Panels	S	S	S			120V	O	O	O		
Aluminized Steel Flue Collectors	S	S	S			SIP-1, Electronic Spark Ignition System	S	S	S		
Horizontal To Vertical Draft Divertors	S	S	S			100% Shutoff	S	S	S		
Vertical Draft Hoods	O	O	O			Electronic Systems — Natural Gas	O	O	O		
						EIM Electronic System — Propane Gas	S	S	S		

# FACTORY PACKAGES

The series 211 boilers are available as factory packages, completely assembled and wired with all controls mounted in models 211-4 thru 211-19. Also available are blocks of assembled sections, pre-assembled bases with manifold, burners and pilot train for sizes 211-4 thru 211-19 (optional).

Literature available

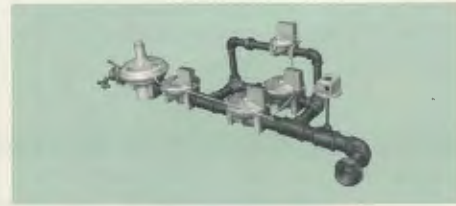


## BACK VIEW — DUAL CONTROLS

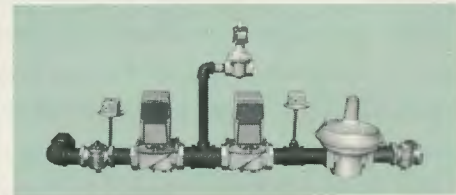
Controls: End Mounted Standard. Front Mounted Optional.

R	S	T	U	Location of Intermediate Tapped Sections Counting from Right (Steam Only)	Center Line of Intermediate Tapped Sections Measured from Right Side of Block (Water Only)	Location of Intermediate Tapped Sections Counting from Right (Water Only)
			10 7/8" 13 3/4" 16 1/2" 10 7/8"			
<b>BOILER MODEL NUMBERS</b>						
<b>211-4W TO 211-28W INCLUSIVE DO NOT INCORPORATE</b>						
<b>INTERMEDIATE TAPPED SECTIONS</b>						
			13 3/4" 13 3/4" 16 1/2" 16 1/2"			
			16 1/2" 13 3/4" 16 1/2" 13 3/4"	9 9		
			16 1/2" 16 1/2" 16 1/2" 16 1/2"	10 10 7-15 7-16		
28 1/8"			16 1/2" 16 1/2" 16 1/2" 16 1/2"	8-16 7-13-19 7-14-20 6-11-16-21		
28 1/8" 28 1/8" 28 1/8" 28 1/8"			16 1/2" 16 1/2" 16 1/2" 16 1/2"	6-12-18-24 5-10-15-20-25 5-10-15-20-25 6-10-14-18-22-26	53 1/8" 109 3/8" 53 1/8" 109 3/8" 53 1/8" 120 3/8"	10-20 10-20 10-22
28 1/8" 28 1/8" 28 1/8" 28 1/8"	28 1/8" 28 1/8" 28 1/8" 28 1/8"		16 1/2" 16 1/2" 16 1/2" 16 1/2"	6-10-14-18-22-28 5-9-13-17-21-25-29 5-9-13-18-22-26-30 5-9-13-18-22-27-31	53 1/8" 120 3/8" 47 1/2" 115" 47 1/2" 98 1/8" 143 1/8" 47 1/2" 98 1/8" 148 3/8"	10-22 9-21 9-18-26 9-18-27
28 1/8" 28 1/8"	28 1/8" 28 1/8"	28 1/8"	16 1/2" 16 1/2"	4-8-12-16-20-24-28-32 4-8-12-16-20-24-28-32	47 7/8" 86 7/8" 131 7/8" 47 7/8" 86 7/8" 131 7/8"	8-16-24 8-16-24

NOTE: In areas having hard water, water with high oxygen content or other unusual water condition, the use of Direct Hot Water Supply Boilers should be considered only with proper water treatment.



The Mod-U-Pak system provides three or six stage modulation of gas input to the boiler as required to meet heating requirements and outdoor temperature changes, with a minimum of gas consumption providing efficient system operation.



Complete systems to meet insurance requirements, IRI, FM, IRM, etc. are available. Consult factory for information.

A variety of Peerless Electronic Control Systems are available. These include pre-wired control panels with multiple signal lights and switches to suit application. Refer to FSP and ECP literature.

## TANKLESS WATER HEATER APPLICATION

	Working Pressure PSIG		Water	Steam
	50	80	50	80
Aluminized Steel Burners	S	S	S	S
High Limit Control and Operating Control	S	S	S	S
Theraltimeter	S	S	—	—
Steam Gauge	—	—	—	S
Pressure Relief Valve	S	S	—	—
Pop Safety Valve, Side Outlet Type	—	—	—	S
Low Water Cutoff	—	—	—	S
Float Type	—	—	—	S
Probe Type	—	—	—	S
Gauge Glass And Fittings	—	—	—	S

Boiler Model No.	Heater No. X-1051 GPM	Heater No. X-1052 GPM	Two Heaters No. X-1051 GPM	Two Heaters X-1052 GPM
211-4W	5.5	—	—	—
211-5W	6.0	8.0	Only one water heater can be used on these models because of boiler length.	—
211-6W	6.5	9.0		—
211-7W	7.0	10.0		—
211-8W	7.5	11.0		—
211-9W	8.0	12.0	16.0	—
211-10W thru 211-15W	8.0	13.0	16.0	26.0
211-16W thru 211-46W	8.0	13.0	16.0	26.0

Water heater ratings are based on constant demand—40° F. to 140° F. rise with 200° boiler water.

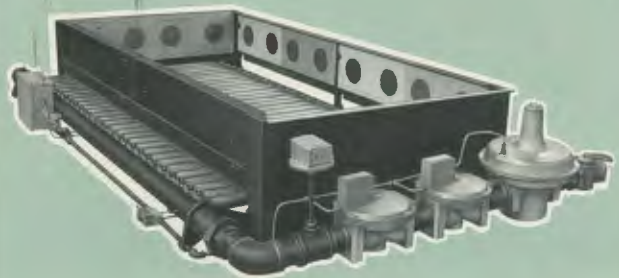
## PEERLESS

### INSULATED BASE

Peerless quality includes pre-assembled gas train, pre-assembled manifold with orifice adapters, and all pre-assembled gas controls, when required. Insulated steel base insures correctness of fit and simplifies field assembly. The total assembly is shipped in sections most convenient for crating and shipping.

All crates are coded, as per contents enclosed.

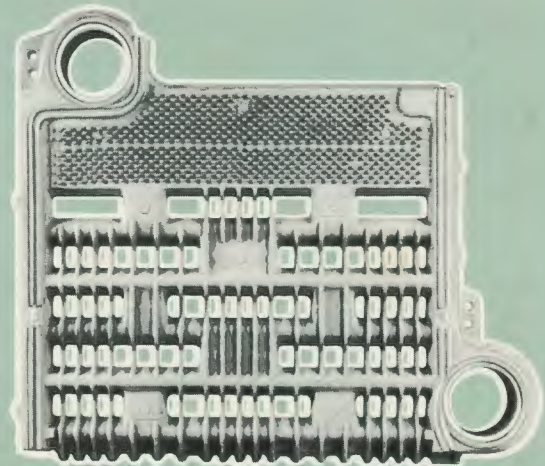
Photo illustrates complete base, burners, and gas train assembled.



## PEERLESS

### FAMOUS CAST IRON MULTIPLE FINNED WATER TUBE SECTIONS

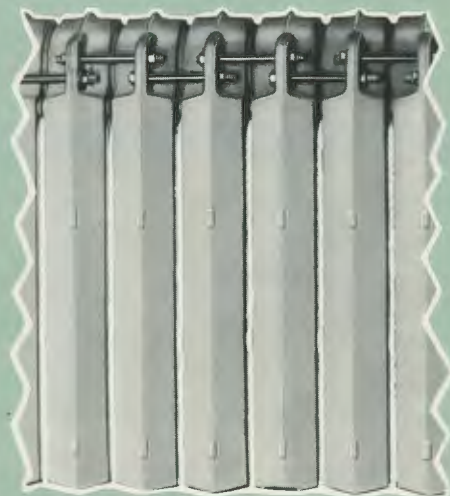
Peerless boiler sections are designed in a unique pattern to provide super strength and long life without unnecessary weight. The sections — vertical risers joining horizontal off-center tubular water passages — form “closed H” type, sturdy supporting units. When assembled, these sections form 13 staggered flue passages per boiler section. They force the hot gases to twist and turn through, and around each multiple finned water tube for maximum contact with heat absorbing surfaces.



## PEERLESS

### PRECISION GROUND SPACING RINGS

All Peerless water tube sections are evenly spaced using spacing rings ... to avoid long iron-to-iron contact. This allows the sections to retain their natural (as cast) skin and provides maximum corrosion resistance and longer life for Peerless boilers. Sections are designed to be pulled together, section-by-section (using individual draw-rods), as the boiler is assembled. Spaces between sections are sealed with a compressible, heat resistant rope ... forming a permanent, gas tight joint and to allow for expansion and contraction of boiler.



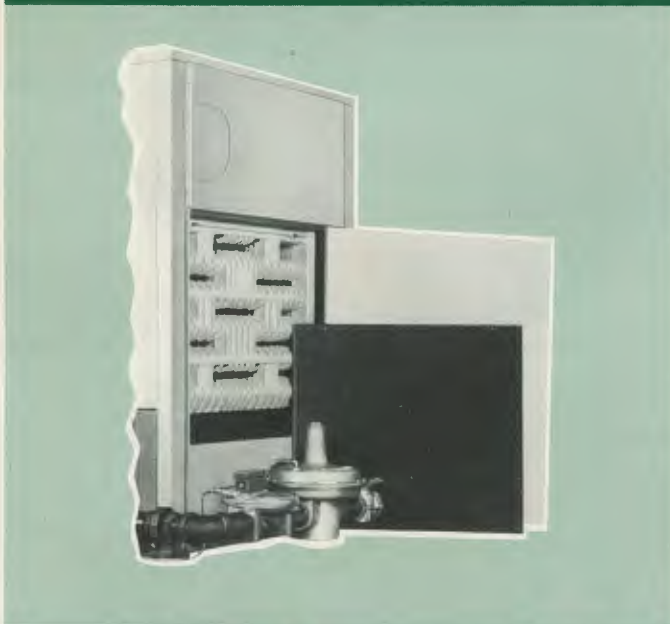
# FEATURES



## PEERLESS

### ALUMINIZED STEEL FLUE COLLECTOR

The Peerless boiler is equipped with Aluminized Steel Flue Collectors and Horizontal-to-Vertical Draft Diverters for extra long life. This assembly maintains a predetermined height of the flue outlet regardless of boiler size. High chimneys and forced (or induced) draft are not required for efficient operation.

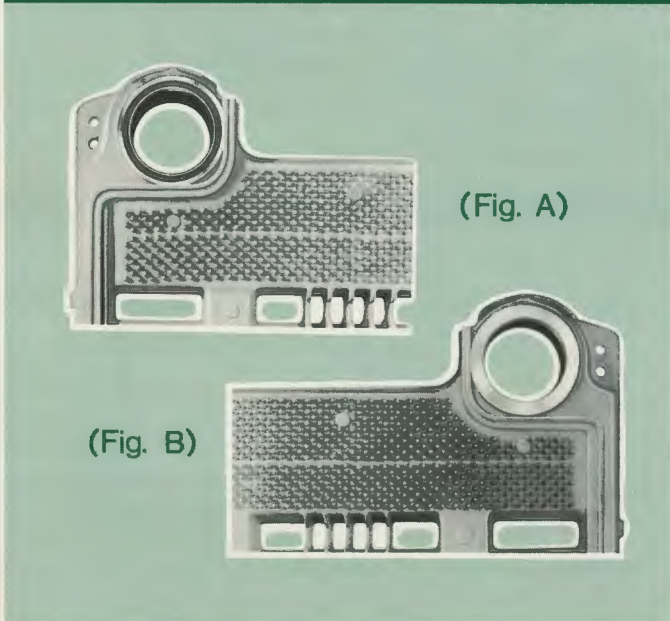


## PEERLESS

### ACCESS DOORS AT BOTH ENDS OF BOILER

Inspection and cleaning of the flueways in a Peerless Series 211 boiler are more convenient since they can be accomplished from either end. Two (2) jacket sections (one at each end of the boiler) may be taken out without removing the jacket. This permits easy removal of jacket panels and provides access to the insulated, heavy steel doors mounted directly to the end sections.

This exclusive feature makes the Peerless Series 211 boiler an ideal choice for Sewage or Industrial Plants using heavy deposit, self-manufactured gases since it provides easier access for the more frequent cleanings of flueways so necessary to maintain high boiler efficiency.



(Fig. A)

(Fig. B)

## PEERLESS

### FLOW PORT GASKET SEALING

The Peerless Series 211 boiler features a unique method for sealing sections. Each section's flow port has a machined recess (fig. A) which holds the flow port gasket. The opposite side has a flat machined surface (fig. B) which compresses the gasket when sections are drawn together with the individual short draw-rods. This assures a water-tight seal and permits faster boiler assembly.

DISTRIBUTED BY:

# TOP OUTLET VERTICAL

# ...DRAFT HOODS

## SERIES 211

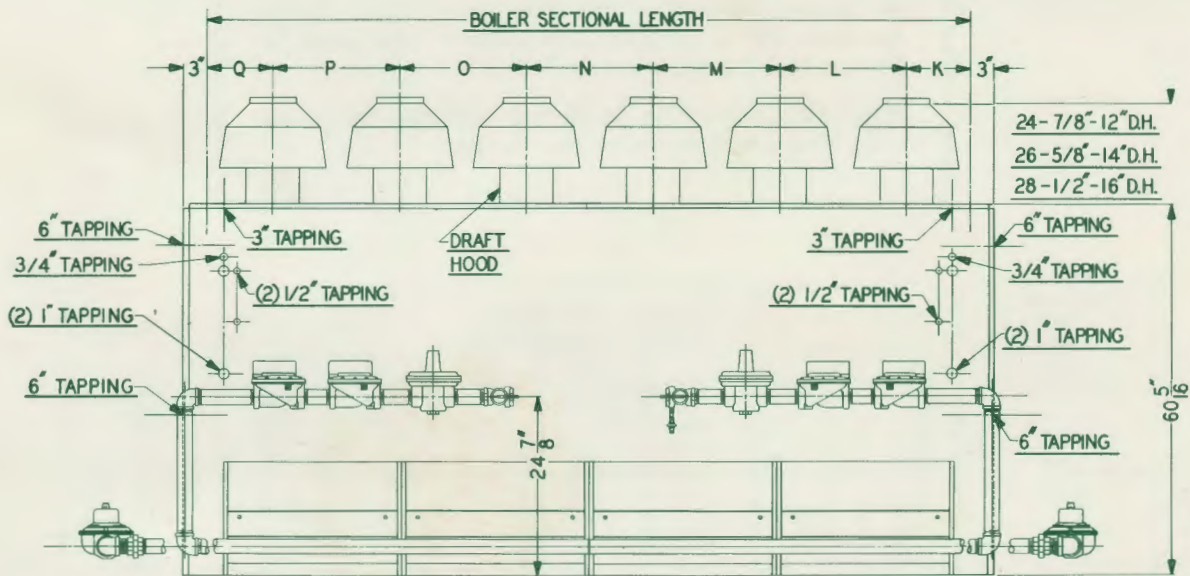
## PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

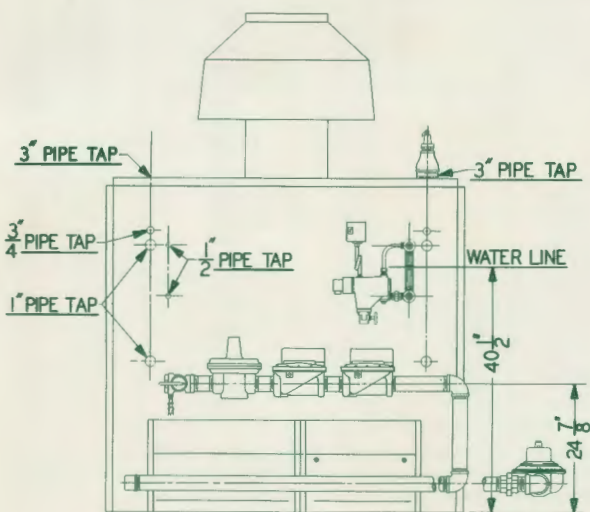
FOR LIMITED SPACE BOILER ROOMS.

## Gas Fired CAST IRON BOILERS

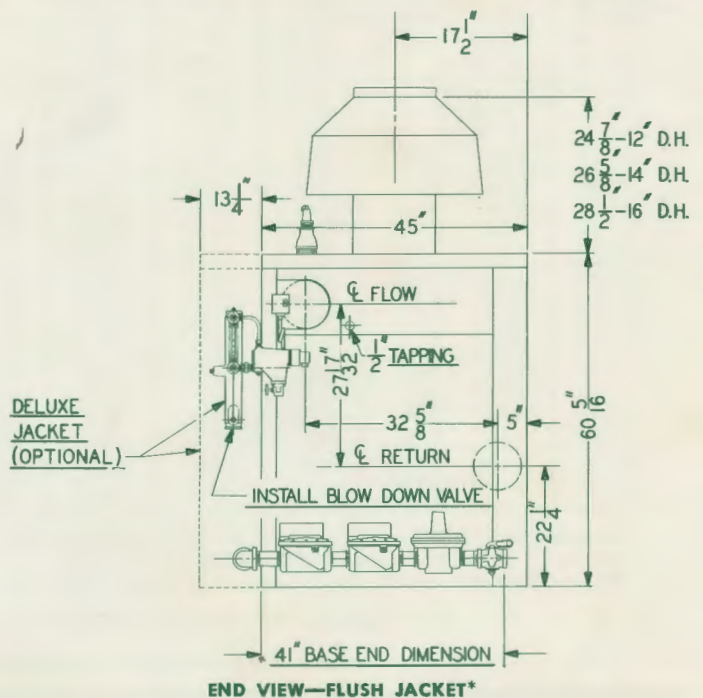
For use with Natural and Propane Gas only.



DUAL CONTROLS—FRONT VIEW\*



SINGLE CONTROLS—FRONT VIEW\*



END VIEW—FLUSH JACKET\*

\* END MOUNTED CONTROLS STANDARD—FRONT MOUNTED CONTROLS OPTIONAL

SEE REVERSE SIDE OF SHEET FOR ADDITIONAL SPECIFICATIONS AND DIMENSIONS

TOP OUTLET VERTICAL DRAFT HOODS are available in place of standard Horizontal to Vertical Flue Collectors and Draft Divertors when ordered with the boiler.

WHEN ORDERING A SERIES 211 BOILER WITH TOP OUTLET VERTICAL DRAFT HOODS THE LETTER "V" IS TO BE USED WITH THE MODEL NUMBER AND THE WORDS "TOP OUTLET VERTICAL DRAFT HOOD" FOLLOWING THE NUMBER.

EXAMPLE: "211-10V S WITH TOP OUTLET VERTICAL DRAFT HOODS."

All orders received without Top Outlet Draft Hoods specified will be shipped with standard Horizontal to Vertical Flue Collectors and Draft Divertors.

Note: Top Outlet Draft Hoods are available for boilers using Natural and Manufactured Gas only.

Boiler Number	DRAFT HOODS NUMBER AND SIZE	VERTICAL DRAFT HOODS CENTER LINE DIMENSIONS							BREACHING SIZE—DIA.	CHIMNEY** SIZE
		K	L	M	N	O	P	Q		
211-4	1-12"	10 7/8"						10 7/8"	12"	12" x 20'
211-5	1-12"	13 3/8"						13 3/8"	12"	12" x 20'
211-6	1-14"	16 1/2"						16 1/2"	14"	14" x 20'
211-7	1-16"	19 3/8"						19 3/8"	14"	14" x 20'
211-8	1-16"	22 1/2"						21 7/8"	15"	15" x 20'
211-9	2-12"	10 7/8"	28 1/8"					10 7/8"	16"	16" x 20'
211-10	2-14"	12 3/8"	30 3/4"					12 3/8"	17"	17" x 20'
211-11	2-14"	12 3/8"	33 3/4"					15 1/8"	18"	18" x 20'
211-12	1-14" 1-16"	17 3/4"	33 7/8"					15 1/8"	18"	18" x 20'
211-13	1-14" 1-16"	22 1/2"	34 7/8"					15 1/8"	19"	19" x 20'
211-14	2-16"	22 1/2"	36 3/4"					18 3/4"	20"	20" x 20'
211-15	2-16"	22 1/2"	39 3/8"					21 7/8"	21"	21" x 20'
211-16	3-14"	13 3/4"	30 7/8"	30 7/8"				13 3/4"	21"	21" x 20'
211-17	2-14" 1-16"	12 3/8"	35"	33 3/8"				13 3/4"	22"	22" x 20'
211-18	1-14" 2-16"	12 3/8"	35"	36 3/4"				16 1/2"	23"	23" x 20'
211-19	3-16"	19 3/8"	36 3/4"	36 1/2"				13 3/4"	23"	23" x 20'
211-20	3-16"	22 1/2"	36 1/8"	36 3/4"				16 1/2"	24"	24" x 20'
211-21	3-16"	22 1/2"	39 3/8"	36 1/8"				19 3/8"	25"	25" x 20'
211-22	3-16"	22 1/2"	39 3/8"	39 3/8"				21 7/8"	25"	25" x 20'
211-23	2-14" 2-16"	12 3/8"	32 1/4"	33 7/8"	36 1/2"			13 3/4"	26"	26" x 20'
211-24	2-14" 2-16"	12 3/8"	32 1/4"	34"	39"			16 1/2"	26"	26" x 20'
211-25	2-14" 2-16"	22 1/2"	39 3/8"	33 3/8"	30 7/8"			13 3/4"	27"	27" x 20'
211-26	1-14" 3-16"	22 1/2"	39 3/8"	36 1/8"	33 3/4"			13 3/4"	27"	27" x 20'
211-27	1-14" 3-16"	22 1/2"	39 3/8"	39 3/8"	33 3/8"			16 1/2"	28"	28" x 20'
211-28	4-14" 1-16"	13 3/4"	30 7/8"	30 7/8"	33 3/4"	33 3/4"		13 3/4"	29"	29" x 20'
211-29	3-14" 2-16"	13 3/4"	30 7/8"	30 7/8"	33 3/4"	36 3/4"		16 1/2"	29"	29" x 20'
211-30	3-14" 2-16"	13 3/4"	30 7/8"	30 7/8"	33 3/4"	36 7/8"		21 7/8"	30"	30" x 20'
211-31	2-14" 3-16"	13 3/4"	30 7/8"	35"	36 1/8"	39 3/8"		19 3/8"	30"	30" x 20'
211-32	2-14" 3-16"	22 1/2"	39 3/8"	39 3/8"	39 3/8"	30 7/8"		13 3/4"	31"	31" x 20'
211-33	5-14" 1-16"	12 3/8"	32"	30 7/8"	33 3/4"	32 1/2"	30 7/8"	12 3/8"	31"	31" x 20'
211-34	4-14" 2-16"	12 3/8"	32 1/4"	30 7/8"	33 3/4"	33 3/4"	33 3/4"	13 3/4"	32"	32" x 20'
211-35	4-14" 2-16"	12 3/8"	32 1/4"	30 7/8"	33 3/4"	33 3/4"	33 3/4"	19 3/8"	32"	32" x 20'
211-36	3-14" 3-16"	12 3/8"	32 1/4"	30 7/8"	33 3/4"	36 7/8"	36 3/4"	18 3/4"	33"	33" x 20'
211-37	3-14" 3-16"	22 1/2"	33 1/2"	34 1/8"	33 1/2"	34 1/8"	33 1/2"	16 1/2"	33"	33" x 20'

\*\*Chimney size is based on a chimney height of 20 feet with a maximum length of connector to the chimney of 6 feet and one 90° elbow. The breaching and chimney sizes for each boiler model may be de-

creased two (2) inches in diameter if the chimney height is increased to 30 feet. A vertical riser height of 3 to 5 feet from the draft hood(s) to the breaching helps to maintain satisfactory draft condition.

For additional ratings and specifications, refer to the standard Series 211 Literature.

The right is reserved by the manufacturer to make changes at any time without notice.

**THE PEERLESS HEATER COMPANY**

DIV. OF PEERLESS INDUSTRIES, INC.

BOYERTOWN, PENNSYLVANIA 19512

**PEERLESS**

**HEAT**

SINCE

1908

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES WH-D

### WALL HUNG GAS-FIRED BOILER



WH40D ILLUSTRATED

### 3 SIZES

FOR USE WITH  
NATURAL GAS  
HOT WATER  
SYSTEMS

42,000 to  
76,000

BTU/hr. Output



## PEERLESS

A Division of Peerless Industries, Inc.  
Boyertown, PA 19512



# Specifications

## Natural Gas

Model	A.G.A. BTU/Hr. Input	Heating Capacity MBH	Net I.B.R. Rating Water MBH	Steady State Efficiency	A.F.U.E.
WH40D	50.0	42.0	36.5	83.1	73.6
WH55D	68.75	58.0	50.4	84.2	73.6
WH72D	90.0	76.0	66.1	84.2	76.6

### STANDARD EQUIPMENT

Pressure relief valve 30 psig W.P.

Combination 24V automatic gas valve with:

- Built in pressure regulator
- Redundant safety shut-off valve
- Pilot regulating valve and manual shut-off valve
- Automatic pilot valve with spark ignition sensor, and manual reset module

Adjustable operating aquastat Hi Limit control

Circulator

Thermostat

Theraltimeter

### FEATURES:

ASME constructed for 50 lbs. working pressure, completely assembled, wired and shipped in dust proof carton.

All controls are mounted under the bottom front cover of the jacket. The cover is removable for servicing.

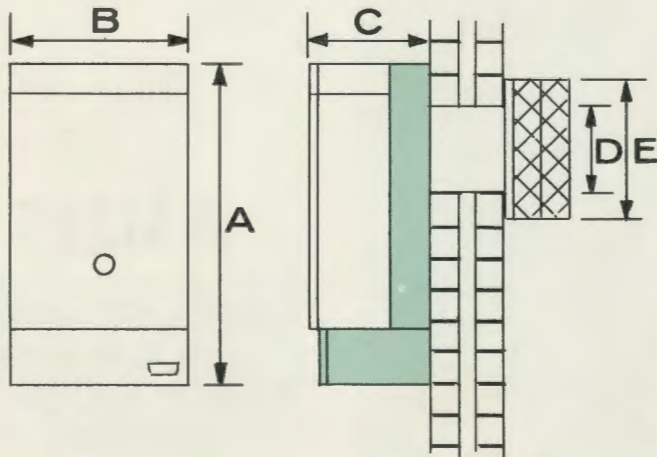
The WH series is certified for burning Natural Gas.

This boiler is designed for use in Hydronic Central Heating and domestic hot water systems for constant circulation.

Accordance with our policy of continual product improvement, we reserve the right to amend the specifications of these products without prior notification.

### Dimensions (in inches)

Model	A Height	B Width	C Depth	D	E	Connections		Approx. Water Content pints	DRY WEIGHT lbs.
						Gas	Water		
WH40D	37 $\frac{7}{8}$	16	11 13/16	9 $\frac{5}{8}$	12 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	2	75
WH55D	37 $\frac{7}{8}$	19 $\frac{1}{2}$	11 13/16	9 $\frac{5}{8}$	12 $\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	2 $\frac{1}{2}$	85
WH72D	40 $\frac{3}{16}$	21 $\frac{1}{2}$	12 13/16	11 $\frac{3}{4}$	15	$\frac{1}{2}$	$\frac{3}{4}$	3	95



**LIGHT WEIGHT  
CAN BE INSTALLED BY ONE MAN**

### Minimum Installation Clearances

When installing the boiler, the following minimum clearances are advised as necessary for maintenance.

Front 36" Sides 4" Top 3" Bottom 6"

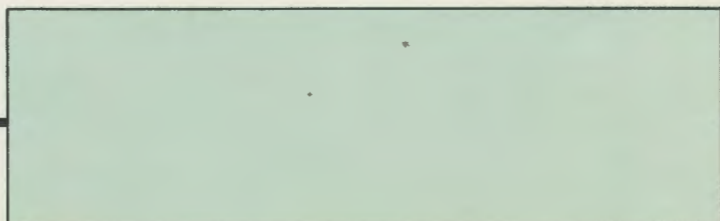
For alcove installations, the following minimum clearances to combustible materials should be observed.

Front 20" Top 3" Sides 4" Floor 6"

All recessed portions of vent assembly 0"

**THE PEERLESS  
HEATER COMPANY**  
BOYERTOWN, PENNSYLVANIA 19512  
DIV. OF PEERLESS INDUSTRIES, INC.

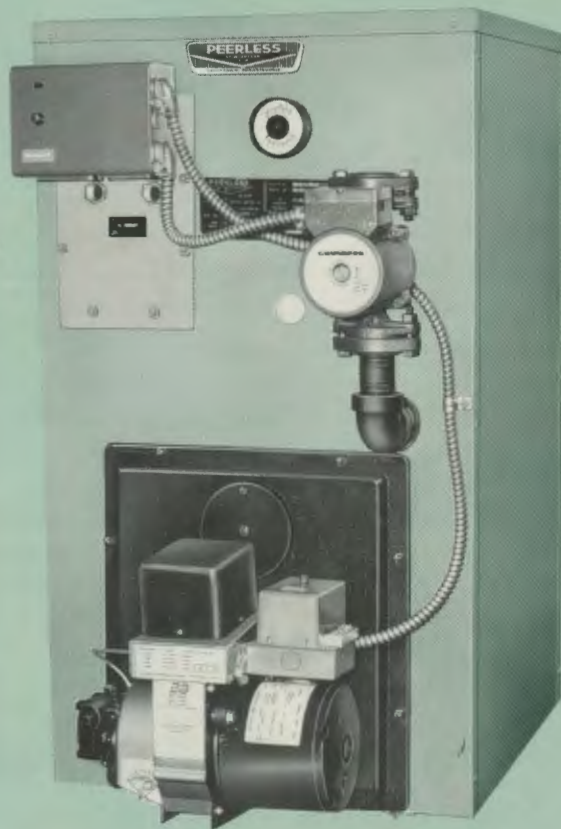
Available from:



# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908



WATER BOILER ILLUSTRATED

## SERIES HEO

OIL-FIRED  
CAST IRON BOILER  
and  
BOILER-BURNER  
UNITS

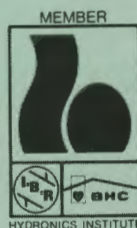
### 3 SIZES

FOR USE WITH  
HOT WATER OR  
STEAM SYSTEMS

### 6 RATINGS

91,000 to  
236,000

BTU/hr. (D.O.E.)  
Heating Capacity



Castings-Certified by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

## SERIES HEO OIL-FIRED RESIDENTIAL CAST IRON BOILER

Mfg. by Eastern Foundry Company, A Division of Peerless Industries, Inc., Boyertown, PA 19512

TESTED FOR 30 LBS. W.P.

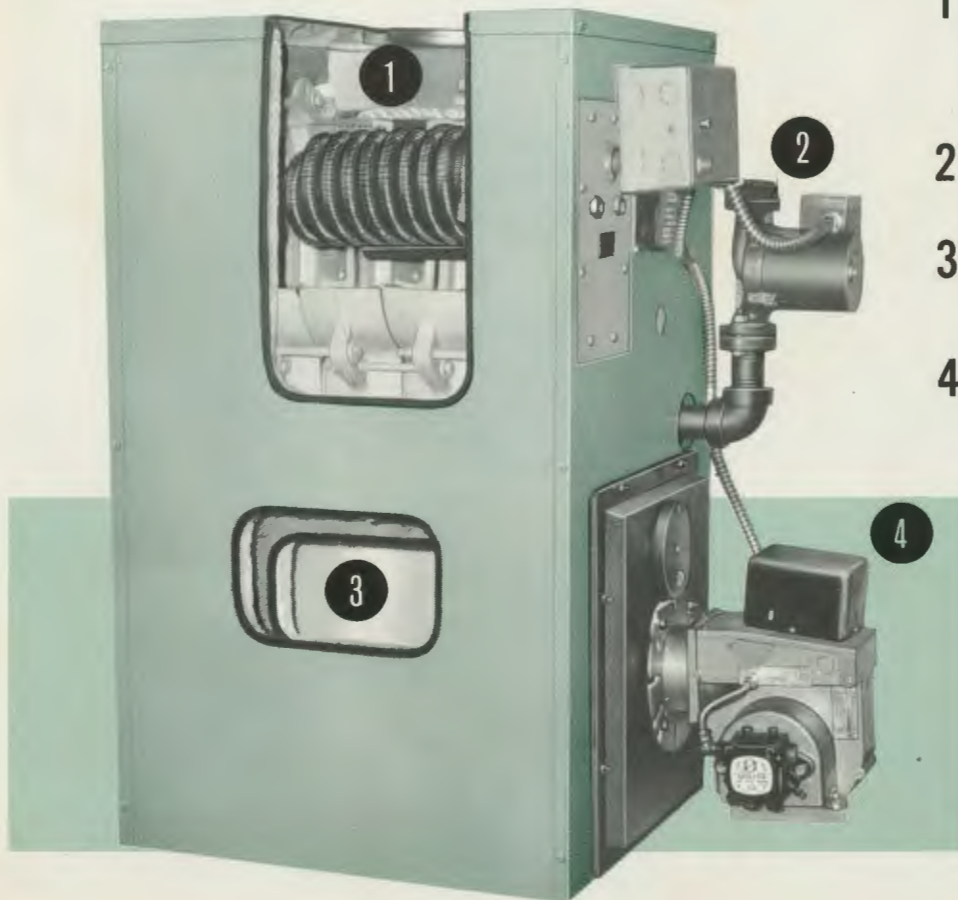


### SERIES HEO RATINGS AND CHIMNEY SIZES

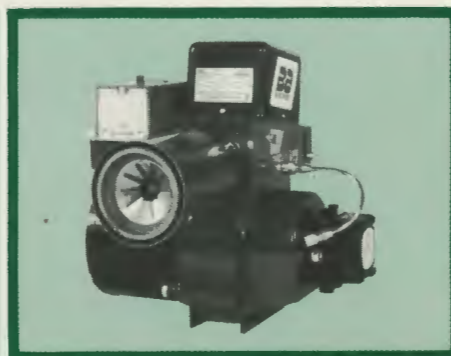
Boiler Model Number	*D.O.E. Heating Capacity BTU/HR	‡Net IBR Ratings			Net Water Sq. Ft.	I=B=R Firing Rate G.P.H.	Approx. Weight (lbs.)	Chimney	
		BTU/HR Steam	Steam Sq. Ft.	BTU/HR Water				Size (Inches)	Height (Feet)
HEO-3L	91,000	68,300	285	79,100	530	.75	380	8x8	15
HEO-3H	120,000	90,000	375	104,300	695	1.00	380	8x8	15
HEO-4L	151,000	113,300	470	131,300	875	1.25	450	8x8	15
HEO-4H	178,000	133,500	555	154,800	1035	1.50	450	8x8	15
HEO-5L	207,000	155,300	645	180,000	1200	1.75	520	8x8	15
HEO-5H	236,000	177,800	740	206,100	1375	2.00	520	8x8	15

\* Heating Capacity based on D.O.E. Testing Procedure

‡ Heating Capacity and Net I=B=R Ratings based on the Testing & Rating Standard for Cast Iron and Steel Heating Boilers of The Hydronics Institute



- 1 AN OPTIONAL TANKLESS COPPER WATER HEATER is available to provide abundant hot water for year-round domestic needs. CAUTION: Water mixing valve should always be installed in the hot water supply to prevent injury.
- 2 A high quality AUTOMATICALLY CONTROLLED CIRCULATOR, factory wired and mounted is furnished with all Series WPC & WPCT boiler models.
- 3 A HIGH TEMPERATURE, PRECAST COMBUSTION CHAMBER is installed at the factory to assure the maximum in high combustion and operating efficiencies.
- 4 A FLAME RETENTION-HEAD OIL BURNER is standard on all Peerless Series HEO boiler-burner units. This 3450 RPM burner provides for efficient fuel burning.



WAYNE "BLUE ANGEL" BURNER (STANDARD)

## STANDARD EQUIPMENT

### SERIES HEO "W" or "S" MODEL

Factory Assembled Section Block  
Insulated Steel Jacket (Flush Type)  
Combustion Chamber  
Provision for Tankless Water Heater  
(Water-Steam)  
Drain Cock  
Theraltimeter (Water)  
ASME Pressure Relief Valve  
30 lbs. (Water)  
Gauge Glass set (Steam)  
ASME Side Outlet Pop Safety Valve  
15 lbs. (Steam)  
Pressure gauge (Steam)  
Flue Brush  
Shipped Factory Assembled

### "WPC" MODEL

All Equipment for Oil Boiler Plus:  
Oil Burner (3450 R.P.M.)  
Cad Cell  
Protectorelay-Burner Mounted  
Aquastat Relay  
Draft Regulator  
Thermostat  
Circulator (Piped and Wired)  
Completely Assembled, Wired and  
Packaged

### PACKAGED "WPCT" MODEL

Same as WPC Model, Plus:  
Triple Aquastat Relay in place of  
Aquastat Relay  
Flow Control Valve  
4 G.P.M. Tankless Water Heater on all  
sizes except, HEO-3, which has 3  
G.P.M. Heater

### "SPT" MODEL

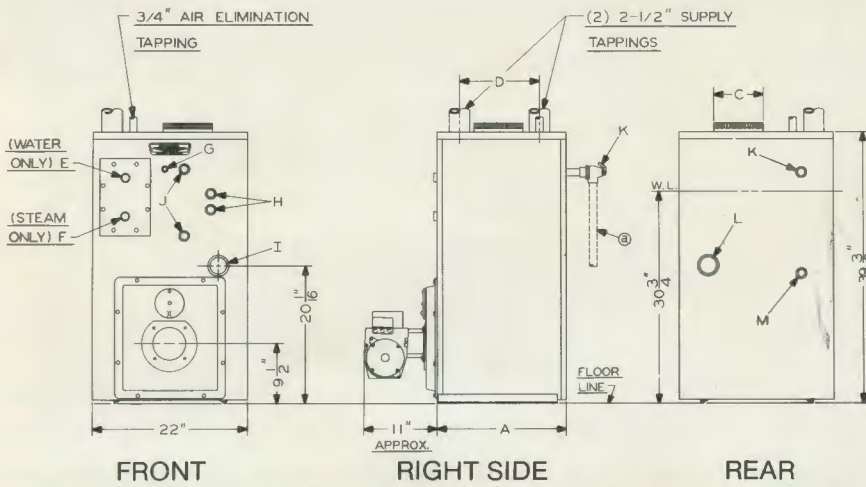
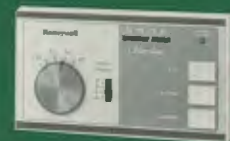
All equipment for HEO-S, plus:  
Aquastat Relay  
Completely Assembled, Wired and  
Packaged, including Tankless Water  
Heater and Flow Control Valve.  
Low Limit Control and a Low Water  
Cut-off.

## STANDARD

WITH SERIES HEO FACTORY PACKAGED  
BOILER-BURNER UNITS

## HONEYWELL Model T8100 FUEL-SAVER THERMOSTAT

Advanced accuracy, dependability and  
flexible temperature control



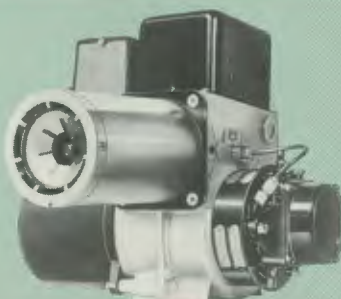
## HEO BOILER DIMENSIONS

Boiler Model Number	Flush Jacket Length "A"	Number of Sections "B"	Flue Outlet "C"	Center Line Flow Tappings "D"
HEO-3L	14 3/8"	3	6"	7 7/8"
HEO-3H	14 3/8"	3	6"	7 7/8"
HEO-4L	18 5/16"	4	7"	11 13/16"
HEO-4H	18 5/16"	4	7"	11 13/16"
HEO-5L	22 1/4"	5	8"	15 3/4"
HEO-5H	22 1/4"	5	8"	15 3/4"

## HEO TAPPING LOCATIONS

Location	Size N.P.T.	Steam	Hot Water
E	3/4"	_____	Operating & Limit Control
F	3/4"	Operating Control	_____
G	1/4"	Pressuretrol — Steam Gauge	Theraltimeter
H	3/4"	Optional Probe Type L.W.C.O.	
I	2"	_____	Return
J	1/2"	Gauge Glass	_____
K	3/4"	Safety Valve	Relief Valve
L	2"	Return	Optional Return
M	3/4"	Drain Cock	Drain Cock

MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.

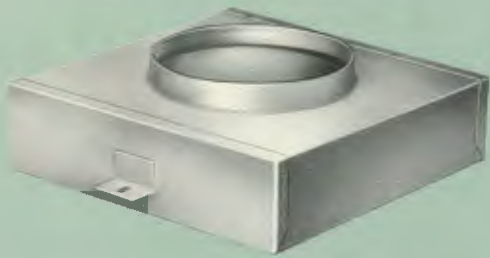


BECKETT BURNER  
(OPTIONAL)



CARLIN BURNER  
(OPTIONAL)

# SOME OTHER SERIES HEO FEATURES



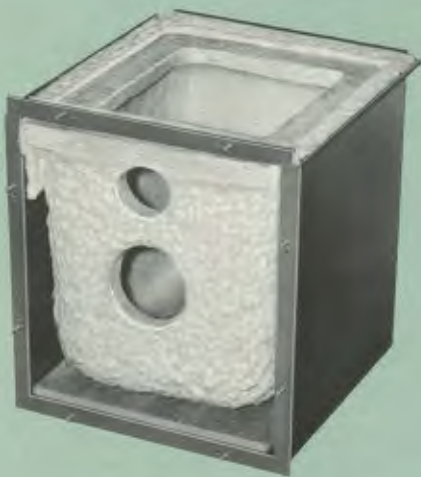
## PEERLESS ALUMINIZED STEEL FLUE COLLECTOR

The Series HEO boiler is equipped with an aluminized steel flue collector for extra long life. This corrosion resistant collector is sealed to the boiler sections with high-temperature rope.



## PEERLESS TANKLESS DOMESTIC COPPER HOT WATER COIL

A copper coil, domestic hot water heater is available for all WATER or STEAM boilers. This coil absorbs heat from hot water in the boiler to provide an abundant supply of domestic hot water ... automatically.



## PEERLESS PRECAST COMBUSTION CHAMBER

This precast, high temperature combustion chamber is factory installed in an aluminized steel base. The unique material and special design of the chamber assures the maximum in combustion and boiler efficiency.

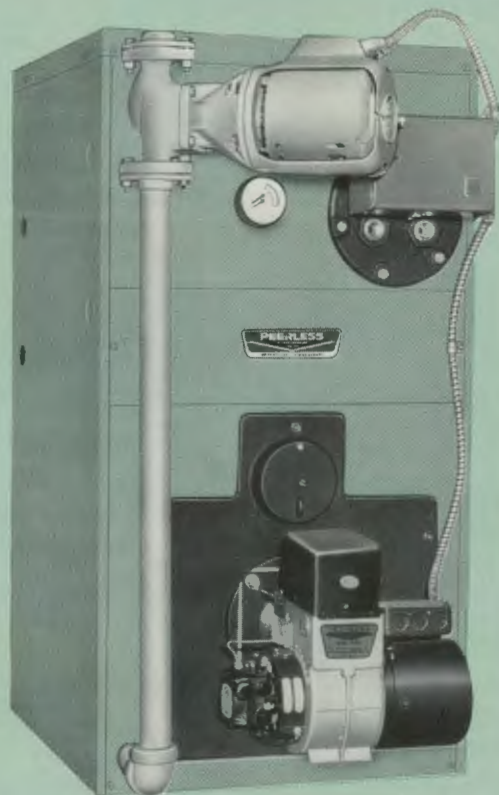
**THE PEERLESS  
HEATER COMPANY**  
BOYERTOWN, PENNSYLVANIA 19512  
DIV. OF PEERLESS INDUSTRIES, INC.

DISTRIBUTED BY:

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908



WATER BOILER ILLUSTRATED

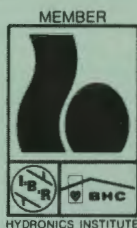
## SERIES JO-JOT

OIL-FIRED  
CAST IRON BOILER  
and  
BOILER-BURNER  
UNITS

### 8 SIZES

FOR USE WITH  
HOT WATER OR  
STEAM SYSTEMS

98,000 to  
268,000  
BTU/hr. Output



Castings-Mfg. by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

SERIES

# OIL FIRED JO AND JOT

RATINGS

CAST



### SERIES JO & JOT S or W

STANDARD EQUIPMENT  
OIL BOILERS—NOT PACKAGED

Factory Assembled Section Block, Insulated Steel Jacket (Flush Type), Combustion Chamber, Provision for Tankless Water Heater (Water-Steam), Drain Cock, Combination Gauge (Water), ASME Pressure Relief Valve 30 lbs. (Water), Gauge Glass Set (Steam), ASME Side Outlet Pop Safety Valve 15 lbs. (Steam), Pressure Gauge (Steam), Flue Brush.

### SERIES JO & JOT SU or WU

STANDARD EQUIPMENT  
BOILER BURNER UNITS—NOT PACKAGED

Factory Assembled Section Block, Insulated Steel Jacket (Flush Type), Combustion Chamber, Provision for Tankless Water Heater (Water-Steam), Oil Burner Flange Mount, Light Sensing Cad. Cell, Protectorelay, Limit Control, Thermostat, Draft Regulator, Drain Cock, Combination Gauge (Water), ASME Pressure Relief Valve 30 lbs. (Water), Pressure Gauge (Steam), Gauge Glass Set (Steam), ASME Side Outlet Pop Safety Valve 15 lbs. (Steam), Nozzle, Flue Brush.

THE RIGHT IS RESERVED BY THE MANUFACTURER TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE

## SERIES JO & JOT RATINGS



†Boiler Model No.		Heating Capacity BTU/Hr.	*Net I-B-R Ratings			** Net Water Sq. Ft.	*** I-B-R Firing Rate G.P.H.	Chimney	
			BTU/Hr. Steam	Steam Sq. Ft.	BTU/Hr. Water			Size Inches	Height Feet
JO-3L	JOT-3L	+98,000	73,500	305	85,200	570	.85	8 × 8	15
JO-3H	JOT-3H	+125,000	93,800	390	108,700	725	1.10	8 × 8	15
JO-4L	JOT-4L	+156,000	117,000	490	135,700	905	1.35	8 × 8	15
JO-4H	JOT-4H	+176,000	132,000	550	153,000	1020	1.55	8 × 8	15
JO-5L	JOT-5L	+208,000	156,000	650	180,900	1205	1.80	8 × 8	15
JO-5H	JOT-5H	+227,000	170,300	710	197,400	1315	2.00	8 × 8	15
JO-6L	JOT-6L	*243,000	182,300	760	211,300	1410	2.25	8 × 12	15
JO-6H	JOT-6H	*268,000	201,000	840	233,000	1555	2.50	8 × 12	20

†Boiler Model No. may have suffix S, or W, SU or WU.  
 +\*Heating capacity BTU/Hr. based on 12.3% CO<sub>2</sub> and -.02" water column draft in firebox, using Beckett AF Burner.  
 +Heating capacity based on D.O.E. testing procedure.  
 \*Net I-B-R Ratings based on the Testing and Rating Standard for Cast Iron and Steel Heating Boilers of The Hydronics Institute. The Net I-B-R Ratings shown include allowance for normal piping and pick-up load.  
 The water ratings are based on a piping and pick-up allowance factor of 1.15, steam ratings are based on allowance of 1.33.  
 The Peerless Heater Company should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as exposed piping night shut-down etc.  
 \*\*Net ratings based on 170° boiler water temperature with heat emission of 150 BTU/Sq. Ft.  
 \*\*\*Firing rate is based on a fuel oil with a heating value of 140,000 BTU per gallon. Burner input based on maximum altitude of 2,000 ft.—for other altitudes consult factory.

### SERIES JO & JOT TAPPING LOCATIONS

Location	Size N.P.T.	Steam	Hot Water
F	¾"	Pressure Gauge	Operating & Limit Control
G	¼"	Pressuretrol	Theraltimeter
H	¾"	Operating Control	Operating & Limit Control
I	1¼"	—	Circulator
J	½"	Gauge Glass	—
K	1"	Safety Valve	Relief Valve
L	2"	Return	Optional Return
M	¾"	Drain Cock	Drain Cock
N	¾"		Optional High Limit
O	¾"	Optional Probe-TYPE LWCO	

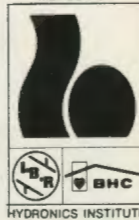
### SERIES JO TANKLESS WATER HEATERS

#### OPTIONAL EQUIPMENT (FOR WATER BOILERS ONLY)

Tankless Water Heater No.	Coil Rating
X-1020	5 G.P.M.

Water Heater ratings are based on intermittent demand 40°F to 140°F with 200°F Boiler Water temperature.

Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.

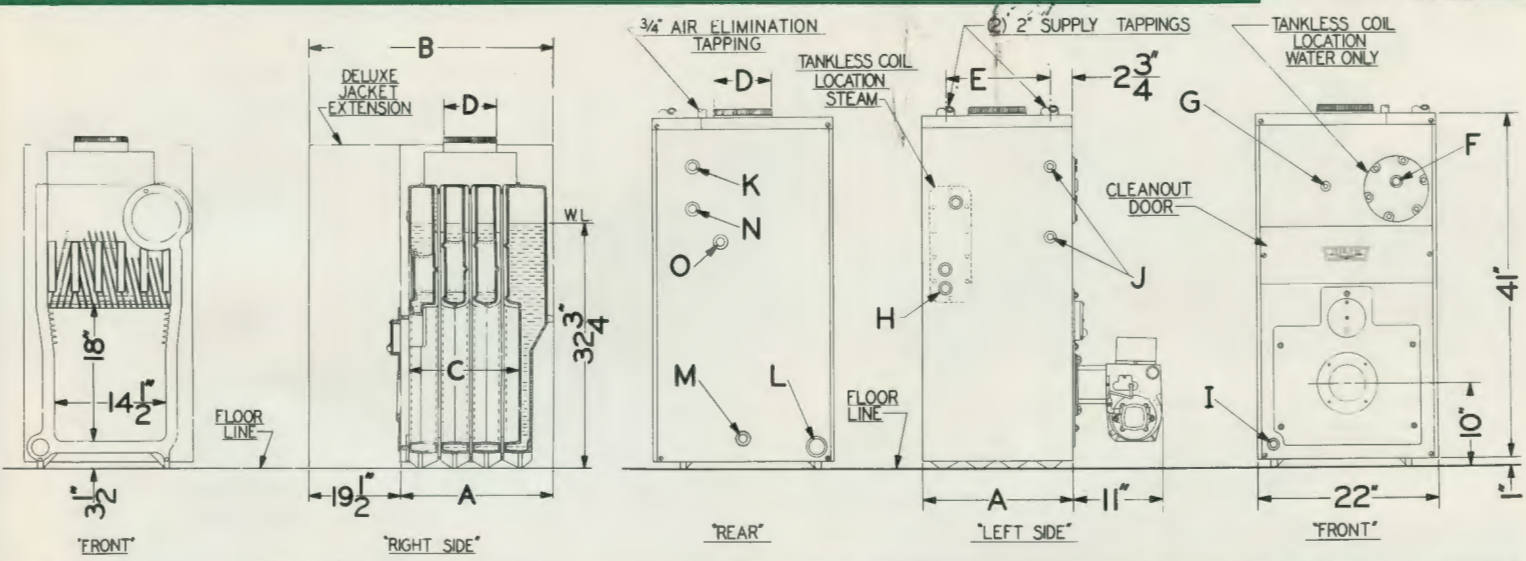


STANDARD EQUIPMENT • SPECIFICATIONS • DIMENSIONS • DRAWINGS

# IRON BOILERS

FOR WATER or STEAM SYSTEMS

Castings - Mfg. by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.,  
Boyetown, Penna.



### SERIES JO & JOT DIMENSIONS

†Boiler Model No.		Number of Sections	Length Flush Jacket "A"	Length Deluxe Jacket "B"	Length Fire Box "C"	Flue Outlet "D"	Center Flow Tappings "E"
JO-3LH	JOT-3LH	3	15 <sup>7</sup> / <sub>8</sub> "	35 <sup>3</sup> / <sub>8</sub> "	10 <sup>1</sup> / <sub>4</sub> "	6"	9"
JO-4LH	JOT-4LH	4	20"	39 <sup>1</sup> / <sub>2</sub> "	14 <sup>3</sup> / <sub>8</sub> "	7"	13 <sup>1</sup> / <sub>8</sub> "
JO-5LH	JOT-5LH	5	24 <sup>1</sup> / <sub>8</sub> "	43 <sup>3</sup> / <sub>8</sub> "	18 <sup>1</sup> / <sub>2</sub> "	8"	17 <sup>1</sup> / <sub>4</sub> "
JO-6LH	JOT-6LH	6	28 <sup>1</sup> / <sub>4</sub> "	47 <sup>3</sup> / <sub>8</sub> "	22 <sup>3</sup> / <sub>8</sub> "	9"	21 <sup>3</sup> / <sub>8</sub> "

†Boiler Model Number may have suffix S or W, SU or WU  
JOT Designates Tankless Water Heater opening located in rear section.  
Note: Water Boiler—Tankless Water Heater located in upper nipple part.  
Steam Boiler—Tankless Water Heater located in rear section.

### SERIES JO PACKAGED WATER BOILERS with Tankless Water Heater

Model No.	JO-3LWPCT	JO-3HWPCT	JO-4LWPCT	JO-4HWPCT
Heating Capacity BTU/Hr.	98,000	125,000	156,000	176,000
Net I-B-R Rating Water BTU/Hr.	85,200	108,700	135,700	153,000
Crated Dimensions	H.	47"	47"	47"
	L.	40"	40"	40"
	W.	28"	28"	28"
Circulator	Yes	Yes	Yes	Yes
Coil Ratings G.P.M.	5.00	5.00	5.00	5.00
Approx. Ship. Wt. Lbs.	700	700	835	835

STANDARD EQUIPMENT—WPCT Models are completely assembled, wired and packaged, including Tankless Water Heater, Flow Control Valve, and Circulator. Standard equipment same as for Boiler Burner Unit (Not packaged) except Combination Protectorelay and Triple Acting Control, replaces Limit Control.

### SERIES JO PACKAGED WATER BOILERS without Tankless Water Heater

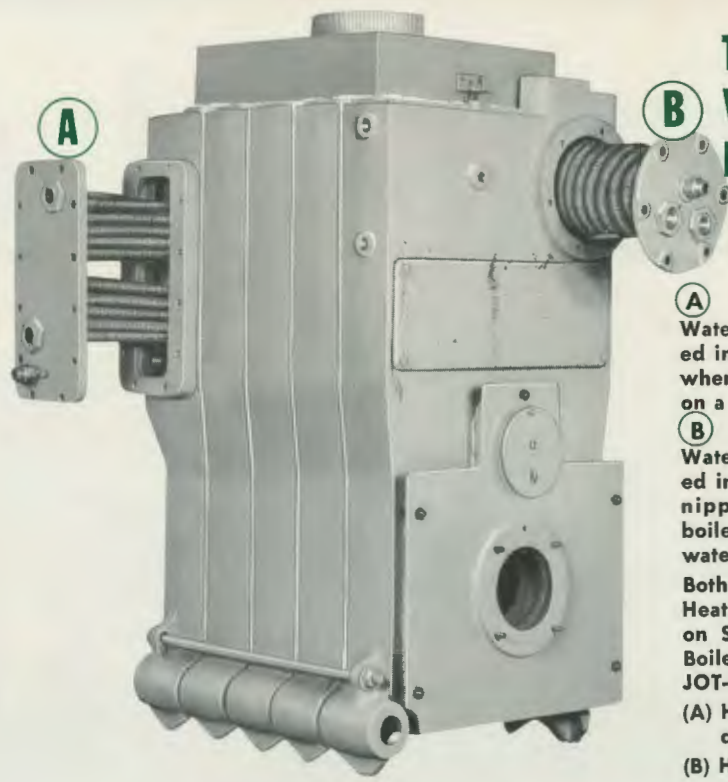
Model No.	JO-3LWPC	JO-3HWPC	JO-4LWPC	JO-4HWPC
Heating Capacity BTU/Hr.	98,000	125,000	156,000	176,000
Net I-B-R Rating Water BTU/Hr.	85,200	108,700	135,700	153,000
Crated Dimensions	H.	47"	47"	47"
	L.	40"	40"	40"
	W.	28"	28"	28"
Circulator	Yes	Yes	Yes	Yes
Approx. Ship. Wt. Lbs.	680	680	820	820

STANDARD EQUIPMENT—WPC Models are completely assembled, wired and packaged including Circulator, Standard, equipment same as for Boiler Burner Units (Not Packaged) except Combination Protectorelay and Dual Acting Control, replaces Limit Control.



**Designed for  
Efficient  
Economy!**

**TANKLESS  
WATER  
HEATERS**



**(A)** Tankless Copper Water Heater is located in the rear section when boiler is used on a steam system.

**(B)** Tankless Copper Water Heater is located in the upper front nipple port when boiler is used on a water system.

Both (A) & (B) Water Heaters can be used on Series JOT Water Boilers, except Model JOT-3.

(A) Heater for Laundry & Dishwasher.  
(B) Heater for all other uses.

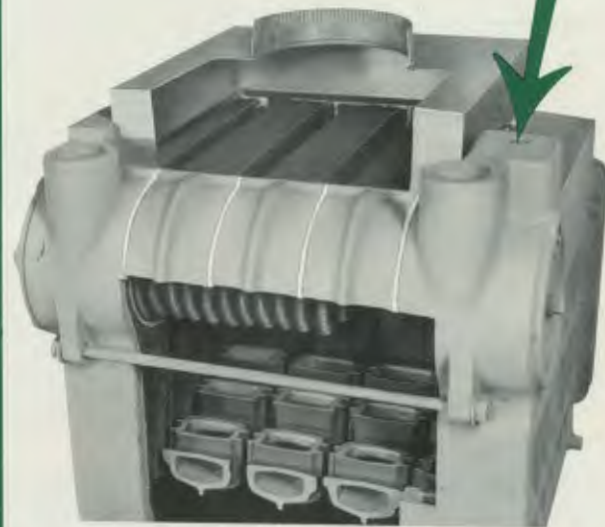


**NEW  
DIAGONAL-FIN  
VERTICAL  
WATER  
TUBE  
SECTION**

A new concept in cast iron boiler design has resulted in this unique diagonal-fin vertical water tube section. The new design offers maximum distribution of the burning gases and easy-flow of hot water through the water tubes; resulting in rapid heating during boiler operation and peak efficiency.

**TAPPING FOR AIR REMOVAL**

The Peerless Tapping for air removal is located on the rear section. The purpose of this tapping is for removal of air to the expansion tank or automatic air vent.



**SERIES JOT PACKAGED STEAM BOILERS  
with Tankless Water Heater**

Model No.	JOT-3LSPT	JOT-3HSPT	JOT-4LSPT	JOT-4HSPT
Heating Capacity BTU/Hr.	98,000	125,000	156,000	176,000
Net I-B-R Rating Steam BTU/Hr.	73,500	93,800	117,000	132,000
Crated Dimensions	H.	47"	47"	47"
	L.	40"	40"	40"
	W.	28"	28"	28"
Coil Ratings G.P.M.	5.00	5.00	5.00	5.00
Approx. Ship. Wt. Lbs.	685	685	825	825

STANDARD EQUIPMENT—SPT Models are completely assembled, wired and packaged, including Tankless Water Heater and Flow Control Valve. Standard equipment same as for Boiler Burner Unit (Not Packaged), except a low limit control and low water cut-off is included.

**SERIES JOT TANKLESS WATER HEATER  
OPTIONAL EQUIPMENT**

(FOR STEAM BOILERS ONLY)

Tankless Water Heater No.	Coil Rating
CC-1020	5 G.P.M.

Water Heater ratings are based on intermittent demand 40°F to 140°F with 200°F Boiler Water temperature.

Refer to Page 2 for Tankless Water Heater No. and ratings when using the Nipple Port Tankless Water Heater. (Water Boiler Only)

Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

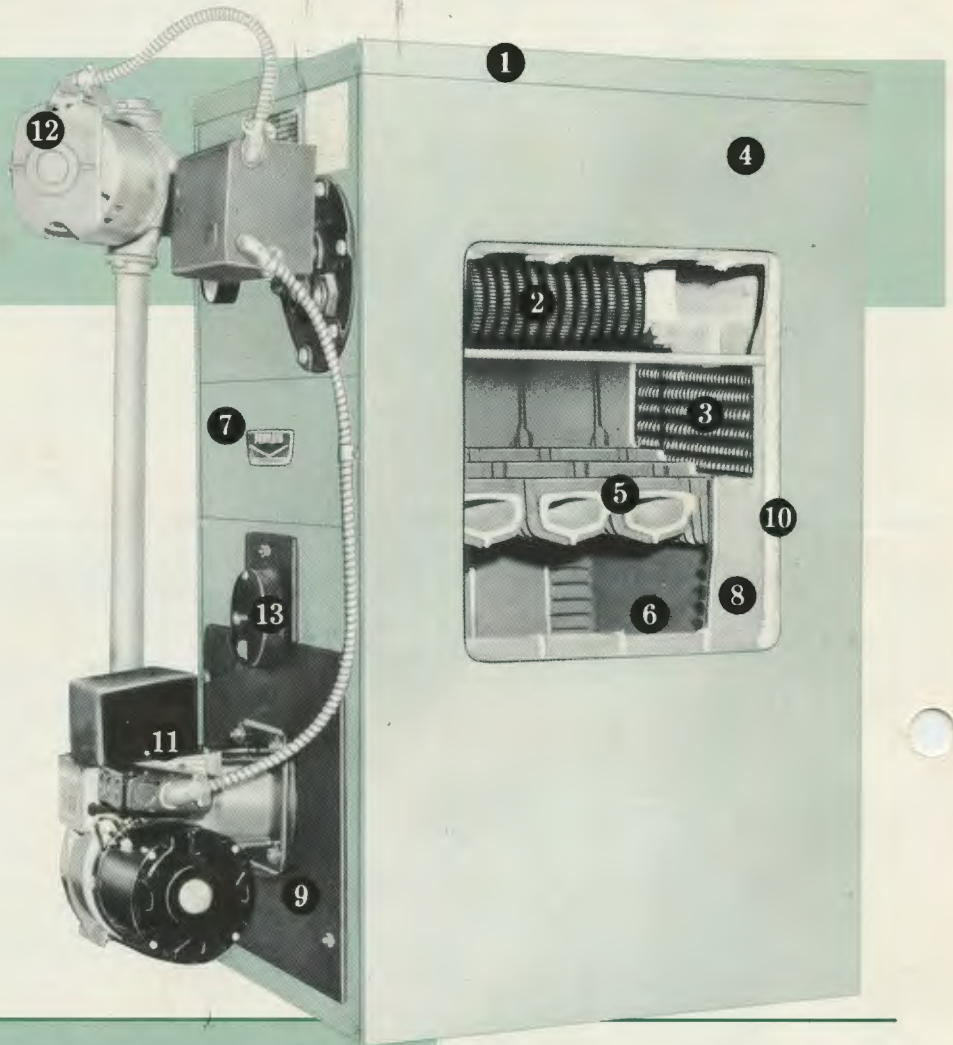
SERIES

# OIL FIRED Jo AND Jot

## CAST IRON BOILERS



## MODERN DESIGN FEATURES



1 Aluminized steel flue collector, corrosion resistant for long life, and sealed to sections with high temperature rope.

2 Tankless copper water heater located in nipple port for abundant year-round domestic hot water supply. Available for water boilers.

3 Tankless copper water heater located in rear section for abundant year-round domestic hot water supply. Available for steam boilers (can be used on water boilers).

4 Jacket (flush type) all steel, green baked enamel finish. Deluxe two toned green baked enamel extension available.

5 The new Peerless diagonal-fin vertical water tube sections with horizontal and vertical gas passages are factory assembled into a complete block and hydrostatically tested for 30 lbs. working pressure.

6 Sections are evenly spaced with spacing pads to eliminate corrosion from long iron to iron contact and sealed with heavy high temperature rope for complete retention of the hot burning gases.

7 Clean-out door on front of boiler allows for inspection and easy cleaning of flueways to maintain high boiler efficiency.

8 Full wet base sections surround combustion chamber for maximum heat absorption of burning fuel and low floor temperature.

9 Heavily insulated cast iron combustion chamber cover plate is sealed with high temperature rope and easily removed if desired.

10 Heavy glass wool insulation on all jacket panels completely surround the boiler. Offers maximum heat retention and protects jacket finish.

11 Special Peerless oil burner flange mounted with light sensing cadmium cell. Standard with Boiler Burner Unit, factory installed with packaged boilers.

12 High quality, automatically controlled circulator, factory mounted and wired on packaged water boilers.

13 Cast iron observation door for easy flame and chamber inspection.

DISTRIBUTED BY

◆ Looking for...  
**EFFICIENCY with ECONOMY?**

**PEERLESS**

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

**SEVEN OIL FIRED SIZES**

SERIES

**JO-PF and JOT-PF**

POSITIVE FLAME

POSITIVE FLAME

**CAST IRON  
BOILER-BURNER UNITS**

(wet base design)

WITH DOE RATINGS

**DIAGONAL-FIN  
SECTION DESIGN**  
for Commercial and  
Residential Installation.

**RATED:**  
142,000 to  
335,000  
BTU/hr  
Output.

**FOR WATER  
OR STEAM  
SYSTEMS**

DELUXE JACKET



**THE PEERLESS HEATER CO.**

SINCE 1908

BOYERTOWN, PA. 19512

DIV. OF PEERLESS INDUSTRIES, INC.

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

SERIES

# JO-PF and

POSITIVE FLAME

OIL FIRED



### SERIES JO-PF & JOT-PF RATINGS

Boiler Model No. Wu or Su	Heating Capacity BTU/Hr.	*Net I-B-R Ratings			** Net Water Sq. Ft.	*** I-B-R Firing Rate G.P.H.	Chimney	
		BTU/Hr. Steam	Steam Sq. Ft.	BTU/Hr. Water		Size Inches	Height Feet	
JO-3PFH JOT-3PFH	+142,000	106,500	445	123,500	825	1.25	8 x 8	15
JO-4PFL JOT-4PFL	+178,000	133,500	555	154,800	1035	1.55	8 x 8	15
JO-4PFH JOT-4PFH	+210,000	157,500	655	182,600	1220	1.85	8 x 8	15
JO-5PFL JOT-5PFL	*235,000	176,300	735	204,300	1365	2.15	8 x 8	15
JO-5PFH JOT-5PFH	*268,000	201,000	840	233,000	1555	2.45	8 x 8	15
JO-6PFL JOT-6PFL	*302,000	226,600	945	262,600	1750	2.75	8 x 12	15
JO-6PFH JOT-6PFH	*335,000	251,300	1045	291,300	1945	3.05	8 x 12	20

+Heating capacity BTU/Hr. based on 12.3% CO<sub>2</sub> and -.02" water column draft in firebox.

+Heating capacity based on D.O.E. testing procedure.

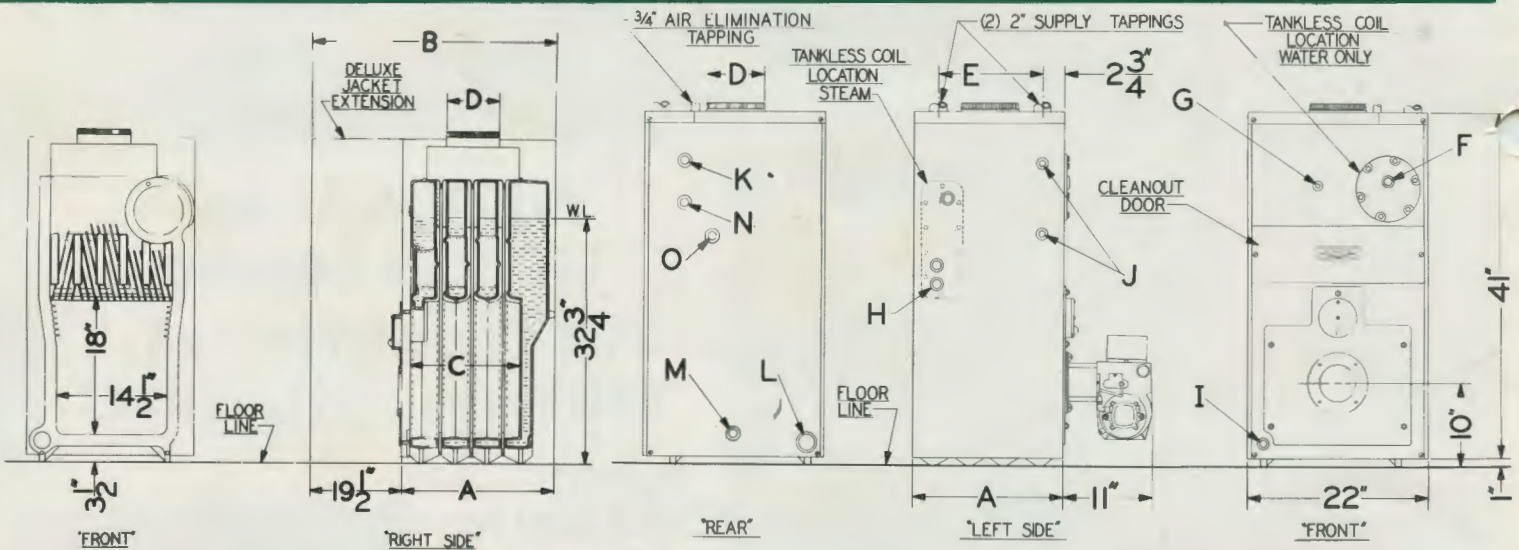
\*Heating capacity and Net I-B-R Ratings based on the Testing and Rating Standard for Cast Iron and Steel Heating Boilers of The Hydronics Institute. The Net I-B-R Ratings shown include allowance for normal piping and pick-up load.

The water ratings are based on a piping and pick-up allowance factor of 1.15, steam ratings are based on allowance of 1.33.

The Peerless Heater Company should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as exposed piping night shut-down etc.

\*\*Net ratings based on 170° boiler water temperature with heat emission of 150 BTU/Sq. Ft.

\*\*\*Firing rate is based on a fuel oil with a heating value of 140,000 BTU per gallon. Burner input based on maximum altitude of 2,000 ft.—for other altitudes consult factory.



### SERIES JO-PF & JOT-PF DIMENSIONS

*Boiler Model No.		Number of Sections	Length Flush Jacket "A"	Length Deluxe Jacket "B"	Length Fire Box "C"	Flue Outlet "D"	Center Flow Tappings "E"
Boiler	Burner Unit SU or WU						
JO-3PFH	JOT-3PFH	3	15 1/2"	35 3/8"	10 1/4"	6"	9"
JO-4PFLH	JOT-4PFLH	4	20"	39 1/2"	14 3/8"	7"	13 1/8"
JO-5PFLH	JOT-5PFLH	5	24 1/8"	43 3/8"	18 1/2"	8"	17 1/8"
JO-6PFLH	JOT-6PFLH	6	28 1/4"	47 3/8"	22 3/8"	9"	21 1/8"

\*JOT Designates Tankless Water Heater opening located in rear section.

Note: Water Boiler—Tankless Water Heater located in upper nipple port. Steam Boiler—Tankless Water Heater located in rear section.

# JOT-PF

POSITIVE FLAME

RATINGS • STANDARD EQUIPMENT • SPECIFICATIONS •  
CAST IRON BOILER BURNER UNIT

SERIES JO-PF PACKAGED WATER BOILERS with Tankless Water Heater			
Model No.	JO-3PFHWPC	JO-4PFLWPC	JO-4PFHWPC
Heating Capacity BTU/Hr.	142,000	178,000	210,000
Net I-B-R Rating Water BTU/Hr.	123,500	154,800	182,600
Crated Dimensions	H.	47"	47"
	L.	40"	40"
	W.	28"	28"
Circulator	Yes	Yes	Yes
Coil Ratings G.P.M.	5.00	5.00	5.00
Approx. Shipping Wt. Lbs.	700	835	835

STANDARD EQUIPMENT—WPCT Models are completely assembled, wired and packaged, including Tankless Water Heater, Flow Control Valve, and Circulator. Standard equipment same as for Boiler Burner Unit (Not packaged) except Combination Protectorelay and Triple Acting Control, replaces Limit Control.

SERIES JO-PF PACKAGED WATER BOILERS without Tankless Water Heater			
Model No.	JO-3PFHWPC	JO-4PFLWPC	JO-4PFHWPC
Heating Capacity BTU/Hr.	142,000	178,000	210,000
Net I-B-R Rating Water BTU/Hr.	123,500	154,800	182,600
Crated Dimensions	H.	47"	47"
	L.	40"	40"
	W.	28"	28"
Circulator	Yes	Yes	Yes
Approx. Shipping Wt. Lbs.	680	820	820

STANDARD EQUIPMENT—WPC Models are completely assembled, wired and packaged including Circulator. Standard equipment same as for Boiler Burner Units (Not Packaged) except Combination Protectorelay and Dual Acting Control, replaces Limit Control.

SERIES JO-PF & JOT-PF TAPPING LOCATIONS Steam & Water Boilers			
Location	Size N.P.T.	Steam	Hot Water
F	3/4"	Pressure Gauge	Operating & Limit Control
G	1/4"	Pressuretrol	Theralltometer
H	3/4"	Operating Control	Operating & Limit Control
I	1 1/4"	—	Circulator
J	1/2"	Gauge Glass	—
K	3/4"	Safety Valve	Relief Valve
L	2"	Return	Optional Return
M	3/4"	Drain Cock	Drain Cock
N	3/4"		Optional High Limit
O	3/4"	Optional Probe-TYPE LWCO	

## STANDARD EQUIPMENT Boiler Burner Units

Factory Assembled Sections	Aluminized Steel Flue
Asbestos Rope Seal	Collector
Steel-Insulated Jacket (Flush)	Water Heater Cover Plate
Enameled	Cerafelt Base Liner
Combination Gauge (Water)	Drain Cock
A.S.M.E. Pressure Relief Valve	Thermostat
30 # (Water)	Field Draft Regulator
Steam Gauge (Steam)	Limit Control (Water or
Gauge Glass and Fittings	Steam)
(Steam)	Oil Burner 3450 r.p.m. Motor
A.S.M.E. Side Outlet Pop	Cad Cell and Protectorelay
Safety Valve 15 # (Steam)	

The right is reserved by the manufacturer to make changes at any time without notice.

SERIES JOT-PF PACKAGED STEAM BOILERS with Tankless Water Heater			
Model No.	JOT-3PFHSPT	JOT-4PFLSPT	JO-4PFHSPT
Heating Capacity BTU/Hr.	142,000	178,000	210,000
Net I-B-R Rating Steam BTU/Hr.	106,500	133,500	157,500
Crated Dimensions	H.	47"	47"
	L.	40"	40"
	W.	28"	28"
Coil Ratings G.P.M.	5.00	5.00	5.00
Approx. Shipping Wt. Lbs.	685	825	825

STANDARD EQUIPMENT—SPT Models are completely assembled, wired and packaged, including Tankless Water Heater and Flow Control Valve. Standard equipment same as for Boiler Burner Unit (Not Packaged), except a limit control and low water cut-off is included.

SERIES JO-PF TANKLESS WATER HEATERS OPTIONAL EQUIPMENT (FOR WATER BOILERS ONLY)	
Tankless Water Heater No.	Coil Rating
X-1020	5 G.P.M.

Gallons of water per minute heated from 40°F. to 140°F. with 200°F. Boiler Water temperature. Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.

SERIES JOT-PF TANKLESS WATER HEATER OPTIONAL EQUIPMENT (FOR STEAM BOILERS ONLY)	
Tankless Water Heater No.	Coil Rating
CC-1020	5 G.P.M.

Gallons of water per minute from 40°F. to 140°F. with 200°F. Boiler Water temperature.

Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.



**S • (wet base design) • WATER or STEAM SYSTEMS**

# SERIES **JO-PF\*** and **JOT-PF\***

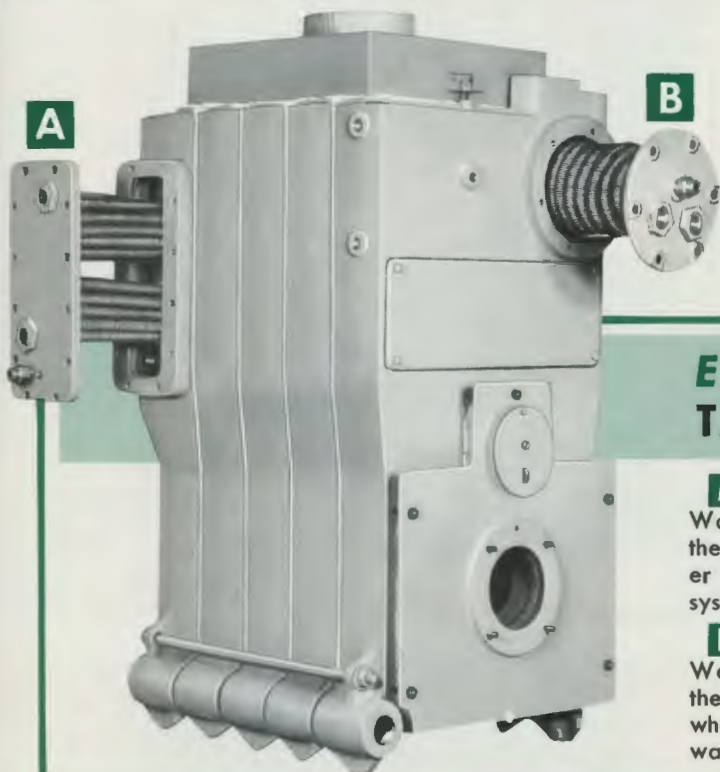
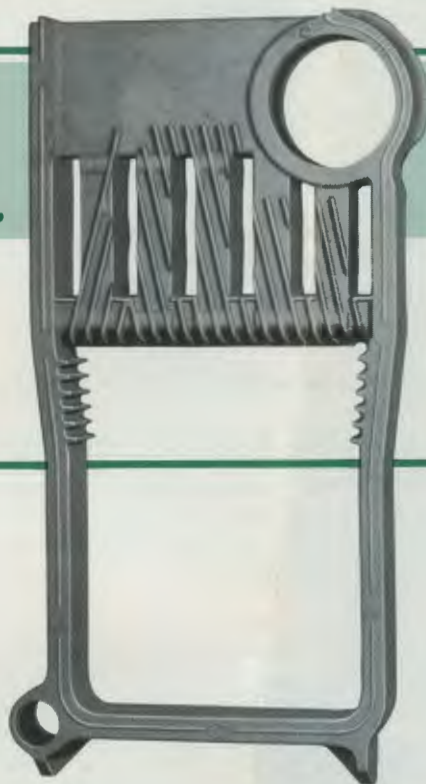
**OIL FIRED CAST IRON BOILER BURNER UNITS**

## Incorporates the **POSITIVE FLAME\*** Principle...

This modern design feature provides economy with maximum performance under unusually adverse field conditions.

### **EFFICIENT VERTICAL WATER TUBE SECTION — "DIAGONAL-FIN" DESIGN . . .**

A new concept in cast iron boiler design has resulted in this unique diagonal-fin vertical water tube section. The new design offers maximum distribution of the burning gases and easy-flow of hot water through the water tubes; resulting in rapid heating during boiler operation and peak efficiency.



### **ENERGY SAVING... TANKLESS WATER HEATERS**

**A** Tankless Copper Water Heater is located in the rear section when boiler is used on a steam system.

**B** Tankless Copper Water Heater is located in the upper front nipple port when boiler is used on a water system.

Both (A) & (B) Water Heaters can be used on Series JOT-PF Water Boilers, except Model JOT-PF-3.

(A) Heater for Laundry & Dishwasher.

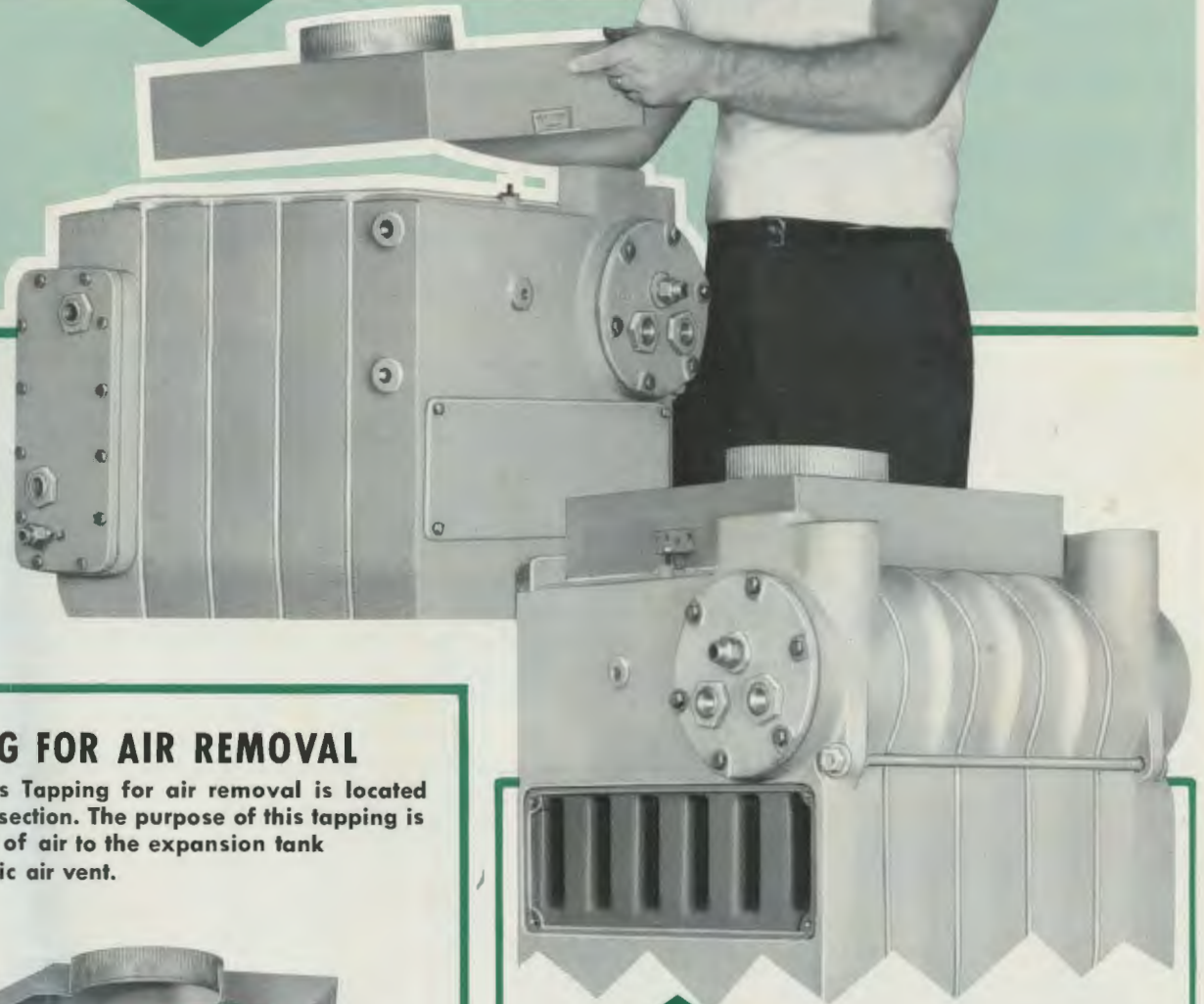
(B) Heater for all other uses.

F  
4"  
10"  
1"

# EASY TO SERVICE!

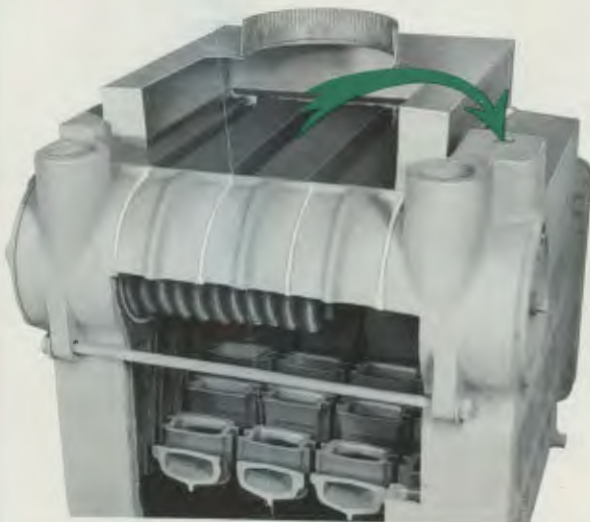
## FLUE COLLECTOR WITH REMOVABLE TOP

The Peerless aluminized Steel Flue Collector can be easily removed for inspection and cleaning of the boiler.



## TAPPING FOR AIR REMOVAL

The Peerless Tapping for air removal is located on the rear section. The purpose of this tapping is for removal of air to the expansion tank or automatic air vent.



## EASY INSPECTION AND CLEANING

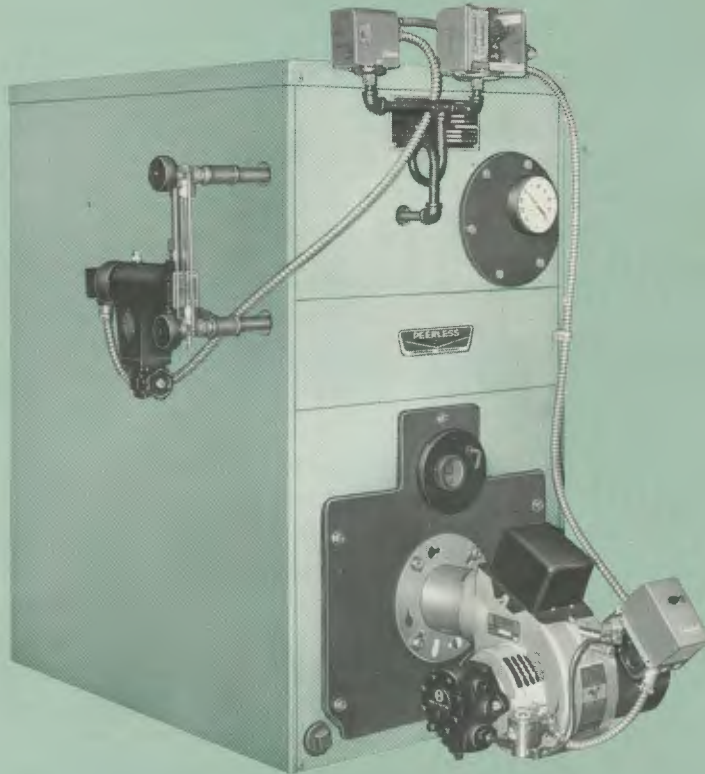
The cast iron cover plate is easily removed for inspection or cleaning of the flue ways to maintain constant boiler efficiency.

# TROUBLE FREE OPERATION!

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908



SERIES

# JO-FD\*

# JOT-FD\*

\*PRESSURIZED FOR FORCED DRAFT FIRING

OIL • COMBINATION  
GAS/OIL or  
GAS FIRED

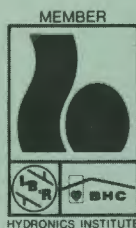
INDUSTRIAL/COMMERCIAL  
CAST IRON  
BOILER-BURNER  
UNITS

## 4 SIZES

FOR USE WITH  
HOT WATER OR  
STEAM SYSTEMS

**396,000 to  
580,000**

**BTU/hr. Output**



Castings-Certified by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512

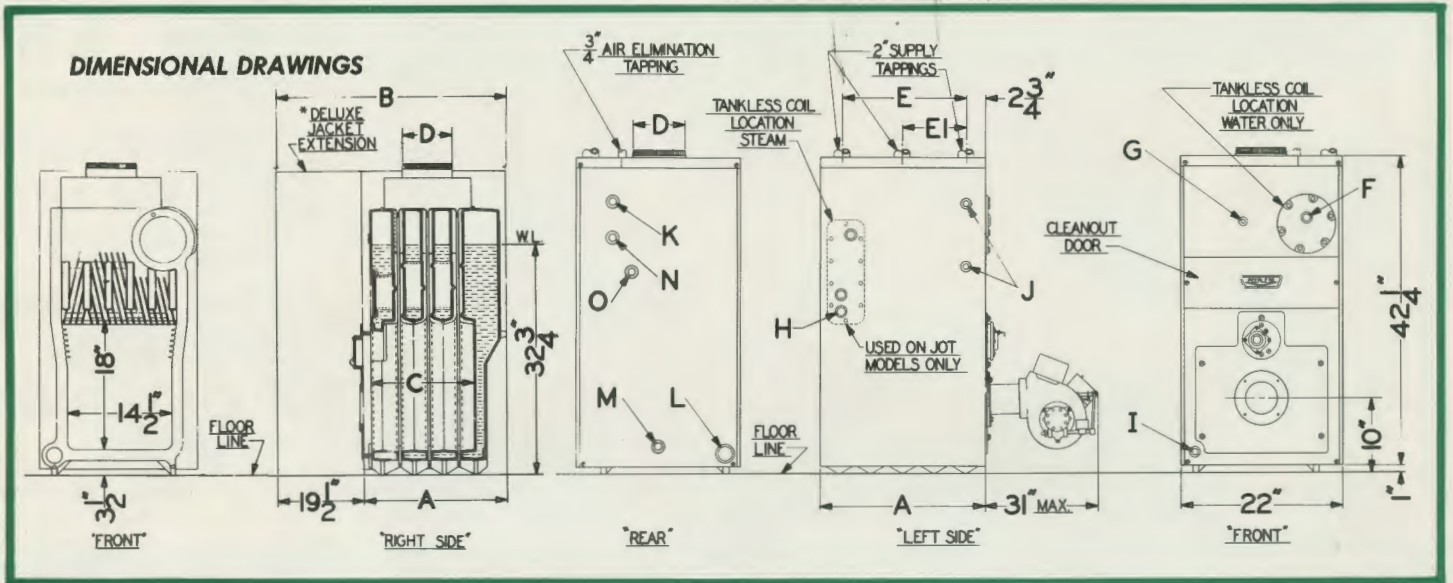


# PEERLESS

OF BOYERTOWN, PENNSYLVANIA  
SINCE 1908

# JO-FD\* & JOT-FD\*

*Oil, Gas & Combination Gas/Oil Fired*  
**CAST IRON BOILER-BURNER UNITS**



SERIES JO-FD & JOT-FD DIMENSIONS							
Boiler Burner Unit Number WU or SU	No. of Section	Length Flush Jacket "A"	*Length Deluxe Jacket "B"	Length Fire Box "C"	Flue Outlet "D"	Center Flow Tappings "E"	Center Flow Tappings "E1"
JO7-FD JOT-7FD	7	33"	52 1/2"	27 1/8"	9"	26 1/2"	—
JO8-FD JOT-8FD	8	37 1/4"	56 3/4"	31 3/8"	9"	30 3/4"	—
JO-9FD JOT-9FD	9	41 1/2"	61"	35 5/8"	10"	35"	—
JO-10FD JOT-10FD	10	45 3/4"	65 1/4"	39 7/8"	10"	39 1/4"	17 1/2"

\*Deluxe Jacket Extension available ONLY with standard oil burner

SERIES JO-FD & JOT-FD RATINGS										
Boiler Burner Unit Number WU or SU	Gross I.B.R. Output M.B.H.	*Net I.B.R. Rating			** Net Water Sq. Ft.	***I.B.R. Burner Capacity		Boiler H.P.	****Vent	
		Water M.B.H.	Steam M.B.H.	Steam Sq. Ft.		Oil G.P.H. Input	Gas M.B.H. Input		Sizes Inches	Height Feet (Min.)
†JO-7FD †JOT-7FD	396	344.3	297.1	1240	2295	3.60	507	11.8	9	3
†JO-8FD †JOT-8FD	458	398.3	343.6	1430	2655	4.15	585	13.7	9	3
†JO-9FD †JOT-9FD	518	450.4	388.6	1620	3005	4.70	662	15.5	10	3
†JO-10FD †JOT-10FD	580	504.3	435.1	1815	3365	5.25	740	17.3	10	3

†Apply Prefix "O" For Oil — "G" For Gas — "GO" For Gas-Oil Ratings based on 12 1/4% CO<sub>2</sub> Oil; 10% CO<sub>2</sub> Gas.

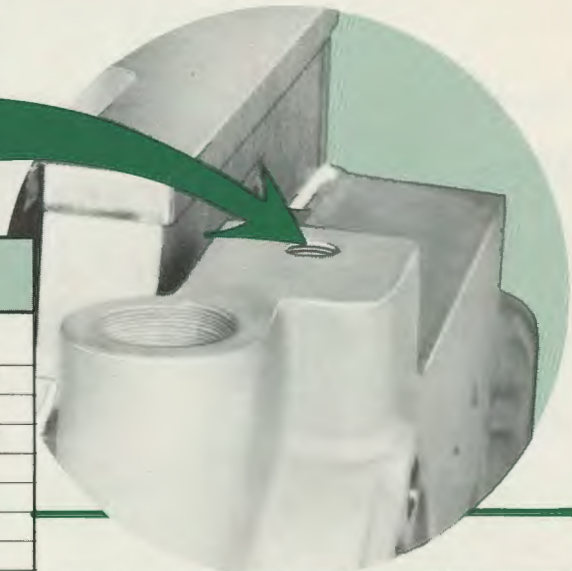
\*The Net I.B.R. Ratings shown include allowance for normal piping loss and pick-up load, in accordance with the Testing and Rating Standard for Low Pressure Cast Iron Heating Boilers of The Hydronics Institute. Water ratings are based on o piping and pick-up allowance factor of 1.15. Steam ratings are based on allowance of 1.33.  
The Peerless Heater Ca. should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as extended piping systems, exposed piping, night set-back, night shut-down, etc.  
\*\*Net water ratings are based on Net I.B.R. Rating in B.T.U. Per Hour at 170° boiler water temperature with heat emission of 150 BTU/hr/per sq. ft.  
\*\*\*I.B.R. Burner Capacity is based on fuel oil with a heating value of 140,000 BTU/gal.  
\*\*\*\*A 3 ft. minimum height of vent above the roof is recommended. For any unusual venting conditions, consult your local building code or authority.

## STANDARD BURNER SPECIFICATIONS

Boiler Model No.	Carlin	Peabody-Gordon & Piatt		Power Flame	
	Oil	Gas	Comb. Gas/Oil	Gas	Comb. Gas/Oil
	JO-7FD Thru JO-10FD	JO-7FD Thru JO-10FD	JO-7FD Thru JO-10FD	JO-7FD Thru JO-10FD	JO-7FD Thru JO-10FD
	301-CRD	R6.2-G	R6.2-GO	C1-G-10	C1-GO-10
On-Off w/Fixed Air	X	X		X	X Gas
Low Fire Start			X		X Oil
Cad Cell Protectorlay	X				
Flame Safeguard UVM3				X	
Flame Safeguard UVM3H		X	X		X
Prewired Panel w/On-Off Switch— Power On & Fuel On Lamps		X	X	X	X
Air Flow Safety Switch		X	X	X	X
Manual Gas S.O. Valve		X	X	X	X
Manual Gas Leakage Test Valve		X	X	X	X
Automatic Gas Valve—Diaphragm		X	X	X	X
Automatic Gas Valve—Solenoid		X	X	X	X
Automatic Pilot Solenoid Valve		X	X	X	X
Main Gas Pressure Regulator		X	X	X	X
Two Stage Fuel Unit	X		X		X
Prepurge Delay Timer	X				
Motor — 3450 RPM 120/60/1	¼ hp	½ hp	½ hp	½ hp	½ hp

## TAPPING FOR AIR REMOVAL

The Peerless Tapping for air removal is located on the rear section. The purpose of this tapping is for removal of air to the expansion tank or automatic air vent.



### SERIES JO-FD & JOT-FD TAPPING LOCATIONS STEAM & WATER BOILERS

Location	Size N.P.T.	Steam	Water
F	¾"	Pressure Gauge	Operating & Limit Control
G	¼"	Pressuretrol	Theraltimeter
H	¾"	Operating Control	Operating & Limit Control
I	1½"	—	Circulator
J	½"	Gauge Glass	—
K	1"	Safety Valve	Relief Valve
L	2"	Return	Optional Return
M	¾"	Drain Cock	Drain Cock
N	¾"	—	Optional High Limit
O	¾"	Optional Probe-Type — LWCO	

### STANDARD EQUIPMENT BOILER-BURNER UNIT

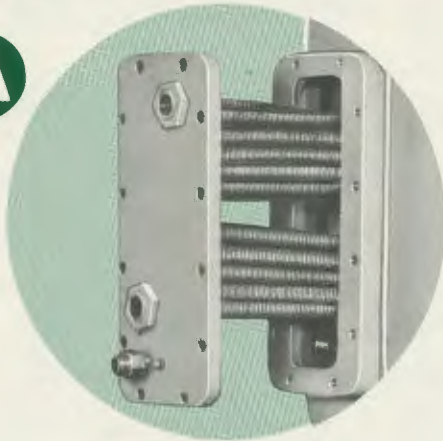
Factory Assembled Split Block of Sections  
(Wet Base Design)  
Hi Temperature Rope Seal  
Steel-Insulated Jacket (Flush) Enameled  
Theraltimeter (Water)  
A.S.M.E. Pressure Relief  
Valve 30 # (Water)

Steam Gauge (Steam)  
Gauge Glass and Fittings (Steam)  
Clean-out Door (Cast Iron)  
Cast Iron Combustion Chamber Cover Plate  
w/Sealed Observation Door  
A.S.M.E. Side Outlet Pop Safety  
Valve 15 # (Steam)

Aluminized Steel Flue Collector  
Lock-Type Damper  
Water Heater Cover Plate  
Cerafelt Base Liner  
Drain Cock  
Flue Brush  
Limit and Operating Control (Water or Steam)

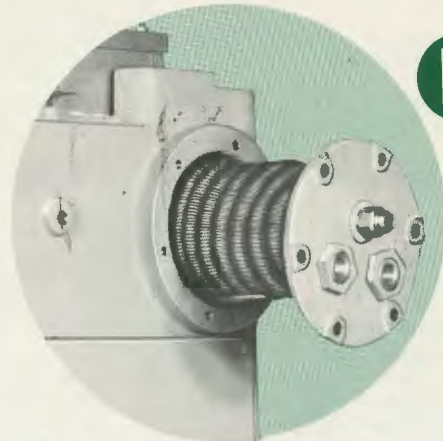
# ENERGY SAVING . . . TANKLESS WATER HEATERS

**A**



**A** Tankless Copper Water Heater is located in the rear section when boiler is used on a steam system.

**B**



**B** Tankless Copper Water Heater is located in the upper front nipple port when boiler is used on a water system.

Both the A & B heaters can be used on water boilers for greater capacity.

## TANKLESS WATER HEATER RATINGS

Boiler Model Number	Heater No. X-1020 — G.P.M.	Heater No. X-1021 — G.P.M.	Heater No. X-1022 — G.P.M.	Heater No. CC-1020 — G.P.M. Steam
JO-7FD	5.25	6.5	—	5.25
JO-8FD	5.5	7.0	10.0	5.5
JO-9FD	5.75	7.5	11.0	5.75
JO-10FD	6.0	8.0	12.0	6.0

Water heater ratings are based on intermittent demand — 40°F to 140°F rise with 200°F boiler water.  
The manufacturer reserves the right to make changes without notice!



**FACTORY  
ASSEMBLED  
AND  
PACKAGED  
(OPTIONAL)**

## CRATE DIMENSIONS & SHIPPING WEIGHTS SERIES JO-FD & JOT-FD

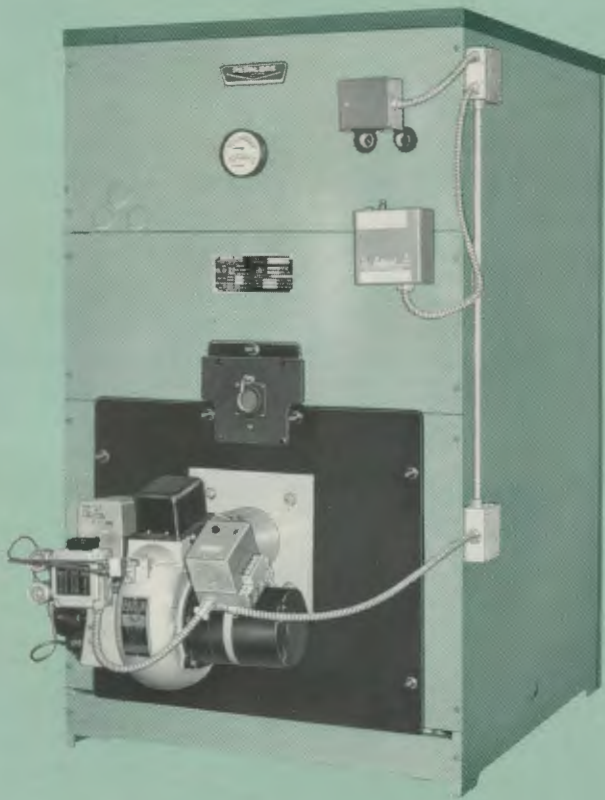
Model No.	Length	Width	Height	*Approx. Shipping Weight
JO-7FD JOT-7FD	58"	32"	50"	1530#
JO-8FD JOT-8FD	62"	32"	50"	1810#
JO-9FD JOT-9FD	67"	32"	50"	2090#
JO-10FD JOT-10FD	71"	32"	50"	2370#

**DISTRIBUTED BY:**

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908



## SERIES 7FDA

PRESSURIZED FOR FORCED DRAFT FIRING

OIL • COMBINATION  
GAS/OIL or  
GAS FIRED

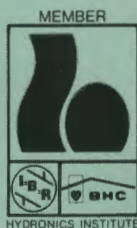
INDUSTRIAL/COMMERCIAL  
CAST IRON  
BOILER-BURNER  
UNITS

### 21 SIZES

FOR USE WITH  
HOT WATER OR  
STEAM SYSTEMS

446,000 to  
3,052,000

BTU/hr. Output



Castings-Certified by  
Eastern Foundry Company,  
A Division of Peerless Industries, Inc.  
Boyertown, PA 19512

# PEERLESS

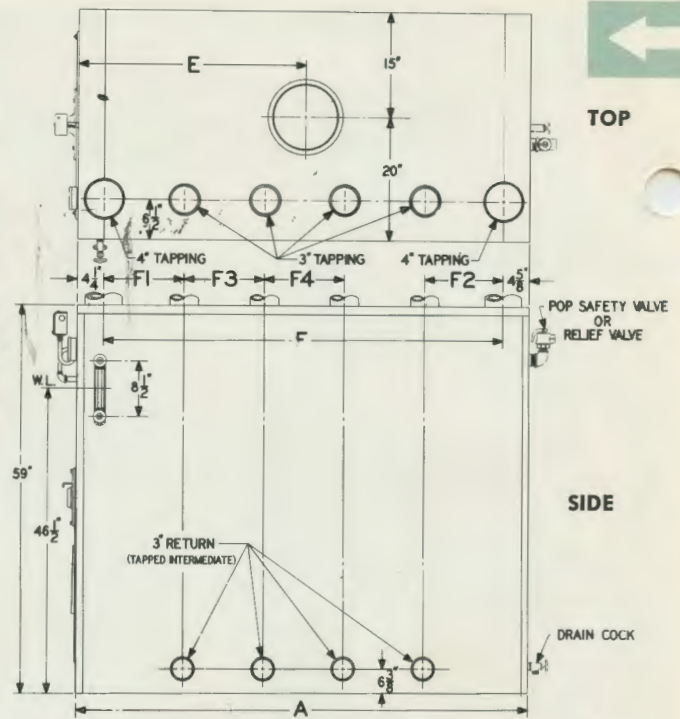
OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES 7FDA

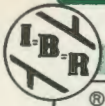
OIL • COMBINATION GAS/OIL  
or GAS FIRED

### CAST IRON BOILER BURNER UNITS



#### STANDARD EQUIPMENT 7FDA BOILER BURNER UNITS

- Steel Insulated Jacket (Flush Type) Enameled
  - Altitude Gauge and Thermometer (Water)
  - \*ASME Pressure Relief Valve 30 lbs. (Water)
  - Steam Gauge, Gauge Glass and Fittings (Steam)
  - Cerafelt Base Liner
  - ASME Side Outlet Pop Safety Valve 15 lbs. (Steam)
  - Cleanout Door (Cast Iron)
  - Aluminized Steel Flue Collector
  - Observation opening rear section
  - Limit & Operating Control
  - Water Heater Cover Plates (Two)
  - Cast Iron Combustion Chamber Insulated Cover Plate w/sealed door
  - Lock-type damper
  - Sections, Cast Iron Water Tube design with full wet base
  - Steam Boilers—Special rear Section provided when two tankless water heaters are used. (Must be ordered with the boiler)
- \* A.S.M.E. Pressure Relief Valve 50 lb. when specifically included on order with boiler will be furnished at no extra charge.  
\* # 80 W.P. Sections available at extra charge.



### Series 7FDA RATINGS

Boiler Burner Unit No.	Gross I.B.R. Output M.B.H.	Boiler H.P.	***I=B=R Burner Capacity		*Net I=B=R Rating			Net Water Sq. Ft.	****Vent		Number of Sections
			Oil G.P.H. Input	Gas M.B.H. Input	Water M.B.H.	Steam M.B.H.	Steam Sq. Ft.		Size Inches	Height Feet (Min.)	
‡-704FDA SU or WU	446	13	3.95	559	387.8	334.6	1,395	2,585	9	3	4
‡-705FDA SU or WU	576	17	5.10	721	500.9	432.1	1,800	3,340	9	3	5
‡-706FDA SU or WU	706	21	6.20	877	613.9	529.6	2,205	4,095	9	3	6
‡-707FDA SU or WU	836	25	7.40	1,046	727.0	627.2	2,615	4,845	10	3	7
‡-708FDA SU or WU	966	29	8.50	1,202	840.0	724.7	3,020	5,600	10	3	8
‡-709FDA SU or WU	1,096	33	9.60	1,357	953.0	822.2	3,425	6,355	10	3	9
‡-710FDA SU or WU	1,226	37	10.80	1,527	1,066.1	919.7	3,830	7,110	10	3	10
‡-711FDA SU or WU	1,356	41	12.00	1,697	1,179.1	1,024.9	4,270	7,860	12	3	11
‡-712FDA SU or WU	1,488	45	13.00	1,838	1,293.9	1,135.0	4,730	8,625	12	3	12
‡-713FDA SU or WU	1,616	48	14.20	2,008	1,405.2	1,241.2	5,170	9,370	12	3	13
‡-714FDA SU or WU	1,748	52	15.40	2,178	1,520.0	1,351.9	5,635	10,135	12	3	14
‡-715FDA SU or WU	1,876	56	16.40	2,319	1,631.3	1,455.4	6,065	10,875	14	3	15
‡-716FDA SU or WU	2,008	60	17.60	2,489	1,746.1	1,559.0	6,495	11,640	14	3	16
‡-717FDA SU or WU	2,140	64	18.80	2,658	1,860.9	1,661.5	6,925	12,405	14	3	17
‡-718FDA SU or WU	2,268	68	20.00	2,828	1,972.2	1,760.9	7,335	13,150	14	3	18
‡-719FDA SU or WU	2,400	72	21.00	2,969	2,087.0	1,863.4	7,765	13,915	14	3	19
‡-720FDA SU or WU	2,528	76	22.00	3,111	2,198.3	1,962.7	8,180	14,665	14	3	20
‡-721FDA SU or WU	2,660	80	23.50	3,323	2,313.0	2,065.2	8,605	15,420	14	3	21
‡-722FDA SU or WU	2,788	83	24.50	3,464	2,424.3	2,164.6	9,020	16,165	16	3	22
‡-723FDA SU or WU	2,920	87	25.50	3,606	2,539.1	2,267.1	9,445	16,930	16	3	23
‡-724FDA SU or WU	3,052	91	26.50	3,747	2,653.9	2,369.6	9,875	17,695	16	3	24

‡Apply Prefix "O" for oil — "G" for gas — "GO" for gas-oil.

\*The Net I=B=R Ratings shown include allowance for normal piping loss and pick-up load, in accordance with the Testing and Rating Standard for Low Pressure Cast Iron Heating Boilers of The Hydronics Institute. Water ratings are based on a piping and pick-up allowance factor of 1.15 steam ratings based on graduated factors in accordance with the Hydronics Institute Rating Standard.

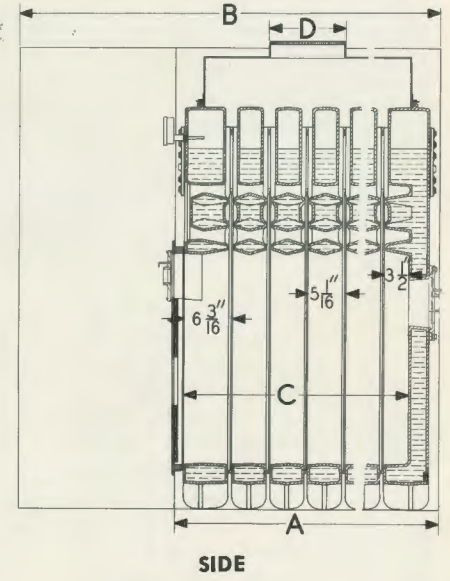
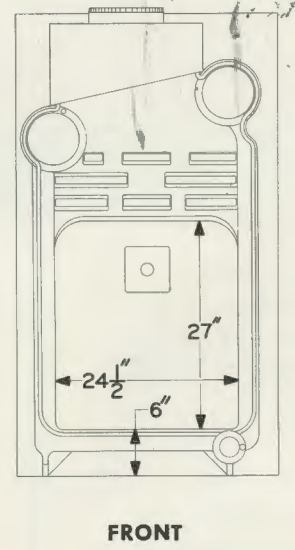
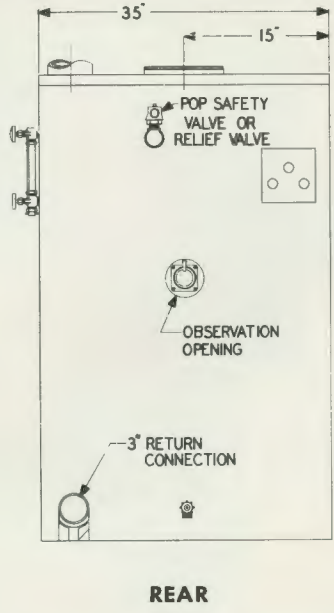
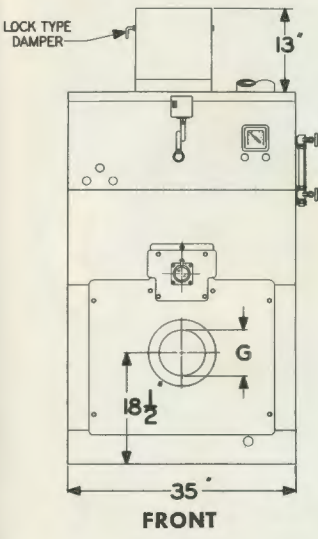
The Peerless Heater Co. should be consulted before selecting a boiler for gravity hot water installations and installations having unusual piping and pick-up requirements such as extended piping systems, exposed piping, night set-back, night shut-down, etc.

\*\*Net water ratings are based on Net I=B=R Rating in B.T.U. Per Hour at 170° boiler water temperature with heat emission of 150° B.T.U.

\*\*\*I=B=R Burner Capacity is based on G.P.H. with a heating value of 140,000 BTU/gal. Burner input based on maximum altitude of 2,000 ft.—for other altitudes consult factory.

\*\*\*\*A 3 ft. minimum height of vent above the roof is recommended. For any unusual venting conditions, consult your local building code or authority.

†Ratings based on 12 1/2% CO<sub>2</sub> oil only.



**SPECIFICATIONS FOR 7FDA OIL BURNERS**

**Oil Burner for models 0-704FDA and 0-705FDA (Flange Mounted) includes:**

- On-off-fixed air
- Two stage fuel unit
- Pre-purge delay timer
- Cad. Cell protectorelay
- Electronic Combustion safety control —(Optional extra)
- Controls—120/60/1
- Motor—3450 R.P.M.—120/60/1— $\frac{1}{4}$  h.p.

**Oil Burner for Models 0-706FDA thru 0-717FDA (Flange Mounted) Includes:**

- On-Off Low Fire start—controlled air and fuel
- two stage fuel unit
- Pre-purge delay timer
- Cad. Cell protectorelay
- Electronic combustion safeguard (Optional extra)
- Controls—120/60/1
- Models 0-706FDA thru 0-710FDA— $\frac{1}{2}$  H.P. Motor—3450 R.P.M. 120/60/1
- Models 0-711FDA thru 0-717FDA— $\frac{3}{4}$  H.P. Motor—3450 R.P.M. 240/60/1

**Oil Burners For Models 0-718FDA Thru 0-724FDA (Flange Mounted) Includes:**

- On-Off low fire start, controlled air, two stage fuel unit electronic combustion safeguard. (pre and postpurge)
- Controls 120/60/1
- Models 0-718FDA thru 0-721FDA—Motor—1 H.P.—3450 R.P.M.—240/60/3
- Models 0-722FDA thru 0-724FDA—Motor— $\frac{1}{2}$  H.P.—3450 R.P.M.—240/60/3

**Series 7FDA DIMENSIONS**

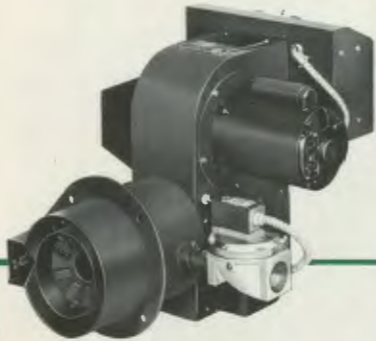
Boiler Burner Unit No.	Length Flush Jacket "A"	Length Deluxe Jacket "B"	Length Combustion Chamber "C"	Flue Outlet "D"	Location "D" From Front "E"	Number of Supply Tappings	Number of Return Tappings	Location Intermediate Tapped Sections From Front	Center of Tappings					Burner Opening Dia. "G"
									"F"	"F-1"	"F-2"	"F-3"	"F-4"	
‡-704FDA SU or WU	25 3/8"	55 3/8"	19 7/8"	9"	12 1/2"	2-4"	1-3"	—	16 7/8"	—	—	—	—	4 1/2"
‡-705FDA SU or WU	30 3/8"	60 3/8"	24 7/8"	9"	15"	2-4"	1-3"	—	21 1/2"	—	—	—	—	4 1/2"
‡-706FDA SU or WU	35 1/2"	65 1/2"	30"	9"	17 1/2"	2-4"	1-3"	—	26 3/8"	—	—	—	—	6 1/4"
‡-707FDA SU or WU	40 1/2"	70 1/2"	35"	10"	20 1/8"	2-4"	1-3"	—	31 5/8"	—	—	—	—	6 1/4"
‡-708FDA SU or WU	45 5/8"	75 5/8"	40 1/8"	10"	22 3/8"	2-4"	1-3"	—	36 3/8"	—	—	—	—	6 1/4"
‡-709FDA SU or WU	50 3/8"	80 3/8"	45 1/8"	10"	25 1/8"	2-4"	1-3"	—	41 3/8"	—	—	—	—	6 1/4"
‡-710FDA SU or WU	55 3/4"	85 3/4"	50 1/4"	10"	27 3/8"	2-4"	1-3"	—	46 3/8"	—	—	—	—	6 1/4"
‡-711FDA SU or WU	60 3/4"	90 3/4"	55 1/4"	12"	30 3/8"	2-4"	1-3"	—	51 3/8"	—	—	—	—	6 1/4"
‡-712FDA SU or WU	65 7/8"	95 7/8"	60 3/8"	12"	32 3/4"	2-4"	1-3"	—	57"	—	—	—	—	6 1/4"
‡-713FDA SU or WU	70 7/8"	100 7/8"	65 3/8"	12"	35 1/4"	2-4"	1-3"	—	62"	—	—	—	—	6 1/4"
‡-714FDA SU or WU	76"	106"	70 1/2"	12"	14 1/4"	2-4" & 1-3"	2-3"	8	67 1/8"	36"	—	—	—	6 1/4"
‡-715FDA SU or WU	81"	111"	75 1/2"	14"	14 1/4"	2-4" & 1-3"	2-3"	8	72 1/4"	36"	—	—	—	6 1/4"
‡-716FDA SU or WU	86 1/8"	116 1/8"	80 3/8"	14"	14 1/4"	2-4" & 2-3"	3-3"	8 & 11	77 3/8"	36"	26"	—	—	6 1/4"
‡-717FDA SU or WU	91 1/8"	121 1/8"	85 3/8"	14"	14 1/4"	2-4" & 2-3"	3-3"	9 & 12	82 1/8"	41"	26"	—	—	6 1/4"
‡-718FDA SU or WU	96 1/4"	126 1/4"	90 3/4"	14"	14 1/4"	2-4" & 2-3"	3-3"	6 & 13	87 3/8"	26"	26"	—	—	8 1/2"
‡-719FDA SU or WU	101 1/4"	131 1/4"	95 3/4"	14"	14 1/4"	2-4" & 3-3"	4-3"	7, 10 & 13	92 3/4"	31"	31"	15"	—	8 1/2"
‡-720FDA SU or WU	106 3/8"	136 3/8"	100 7/8"	14"	14 1/4"	2-4" & 3-3"	4-3"	7, 11 & 14	97 7/8"	31"	31"	20"	—	8 1/2"
‡-721FDA SU or WU	111 3/8"	141 3/8"	105 7/8"	14"	14 1/4"	2-4" & 3-3"	4-3"	6, 11 & 16	102 1/2"	26"	26"	25 3/8"	—	8 1/2"
‡-722FDA SU or WU	116 1/2"	146 1/2"	111"	16"	15 1/4"	2-4" & 4-3"	5-3"	5, 9, 13 & 17	107 5/8"	20 3/8"	26"	20 1/4"	20 1/4"	8 1/2"
‡-723FDA SU or WU	121 1/2"	151 1/2"	116 1/8"	16"	15 1/4"	2-4" & 4-3"	5-3"	6, 10, 14 & 18	112 3/4"	26"	26"	20 1/4"	20 1/4"	8 1/2"
‡-724FDA SU or WU	126 3/8"	156 3/8"	121 1/8"	16"	15 1/4"	2-4" & 4-3"	5-3"	6, 11, 15 & 19	117 3/4"	26"	26"	25 3/8"	20 1/4"	8 1/2"

The intermediate tapped sections have 3" supply and 3" return.

# SPECIFICATIONS FOR 7FDA COMBINATION GAS/OIL and GAS BURNERS

SPECIFICATIONS FOR SERIES 7FDA GAS & COMBI. GAS/OIL BOILERS STANDARD MODEL "R" GAS & COMBI. GAS/OIL BURNERS	GAS			COMBINATION GAS/OIL			
	704 thru 715	716	717 thru 724	704 thru 708	709 thru 715	716	717 thru 724
Series 7FDA Model No.							
On-Off w/Fixed Air (Gas)	X			X	X		
On-Off w/Low Fire Start—Controlled Air and Fuel (Gas)		X	X			X	X
On-Off w/Low Fire Start—Controlled Air and Fuel (Oil)				X	X		
On-Off w/Low Fire Start—Controlled Air and Fuel (Oil)						X	X
Protectorelay—Prepurge	X	X		X	X	X	
Protectorelay—Pre and Postpurge			X				X
Prewired Panel w/On-Off Switch (Power On—Fuel On Lamps)	X	X	X	X	X	X	X
Air Flow Safety Switch	X	X	X	X	X	X	X
Manual Gas S.O. Valve	X	X	X	X	X	X	X
Manual Gas Leakage Test Valve	X	X	X	X	X	X	X
Low Gas Pressure Switch			X				X
High Gas Pressure Switch			X				X
Automatic Gas Valve—Diaphragm	X	X		X	X	X	
Automatic Gas Valve—Solenoid	X	X	X	X	X	X	X
Automatic Gas Valve—Motorized			X				X
Automatic Pilot Solenoid Valve	X	X	X	X	X	X	X
Main Gas Pressure Regulator	X	X	X	X	X	X	X
Pressure Gauge (Oil)					X	X	X
Two Stage Fuel Unit (300 PSI—3450 RPM)				X	X	X	X

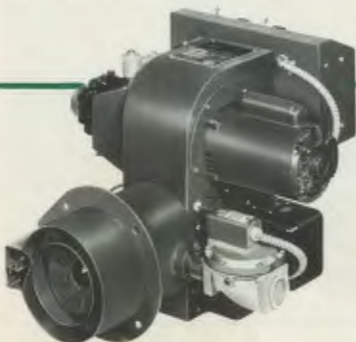
MOTORS VOLTAGE HORSEPOWER 3450 R.P.M.	704FDA-706FDA	120/60/1	1/3 H.P.
	707FDA-712FDA	120/60/1	1/2 H.P.
	713FDA-715FDA	240/60/1	3/4 H.P.
	716FDA-721FDA	240/60/3	1½ H.P.
	722FDA-723FDA	240/60/3	2 H.P.
	724FDA	240/60/3	3 H.P.



**GAS BURNER**

Extension of Burner Beyond Combustion Chamber Cover Plate 34" Maximum

**COMBINATION GAS/OIL BURNER**



**SUBMITTAL DATA:** Peerless Boiler Burner Unit No. \_\_\_\_\_ (Steam) (Water) Oil or Gas or Gas-Oil is submitted for the following job, with ratings, dimensions, specifications, standard equipment and accessories as specified.

Job \_\_\_\_\_

Location \_\_\_\_\_

Address \_\_\_\_\_

Engineer \_\_\_\_\_

Oil Specs. \_\_\_\_\_

Boiler Number \_\_\_\_\_

Output \_\_\_\_\_

Net \_\_\_\_\_

For other Ratings, Specifications and Dimensions see tables pages 2, 3, 4

Boiler will include standard equipment as shown on pages 2 & 3 except as follows:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Boiler will include optional specified accessories as follows: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

SERIES

# 7FDA

## ADVANCED HYDRONIC HEATING

The Series 7FDA (Forced Draft) boiler burner units are designed to provide higher output with a smaller compact boiler; resulting in greater efficiency. Many advantages are offered; such as: automatic firing with oil, gas, or combination gas/oil burners, smaller boiler room planning, and low chimney or vent. This boiler is ideal for use when encountering adverse operating conditions.

## Proven Features of ADVANCED DESIGN and ENGINEERING

**4** The Combination Gas/Oil burner illustrated shows the mounting arrangement. The gas burner is mounted in a similar fashion. The oil burner is flanged on smaller boiler sizes with pedestal added on larger units.

**8** The famous Peerless heavy duty cast iron water tube sections, with an extremely high number of gas passages (8 per section), are cast in a closed H design for maximum strength and efficiency.

**9** Sturdy base legs cast as part of each section enables boiler to be installed directly on non-combustible floor without the addition of a separate base.

**10** Heavy duty Cast Iron fully insulated combustion chamber cover plate specially designed to mount flanged burner and to seal against chamber pressures. Observation door also pressure sealed.

**1** Heavy gauge aluminumized steel flue collector, corrosion resistant for long life, and sealed to sections with High Temp. rope.

**5** Precision ground, cast-on pads evenly space the sections, to eliminate corrosion from long iron to iron contact. Sections are sealed with heavy High Temp. rope for complete retention of the hot burning gases.

**2** Tankless all copper water heater for abundant year-round domestic hot water supply. Additional coils can be installed for greater hot water requirements.

**6** High Temp. rope sealed cast iron clean-out door on front of boiler allows for inspection and easy cleaning of flueways to maintain high boiler efficiency.

**3** All steel Jacket, glass wool insulated, with two toned green baked enamel finish. Jacket is designed for installation after supply and return piping is connected.

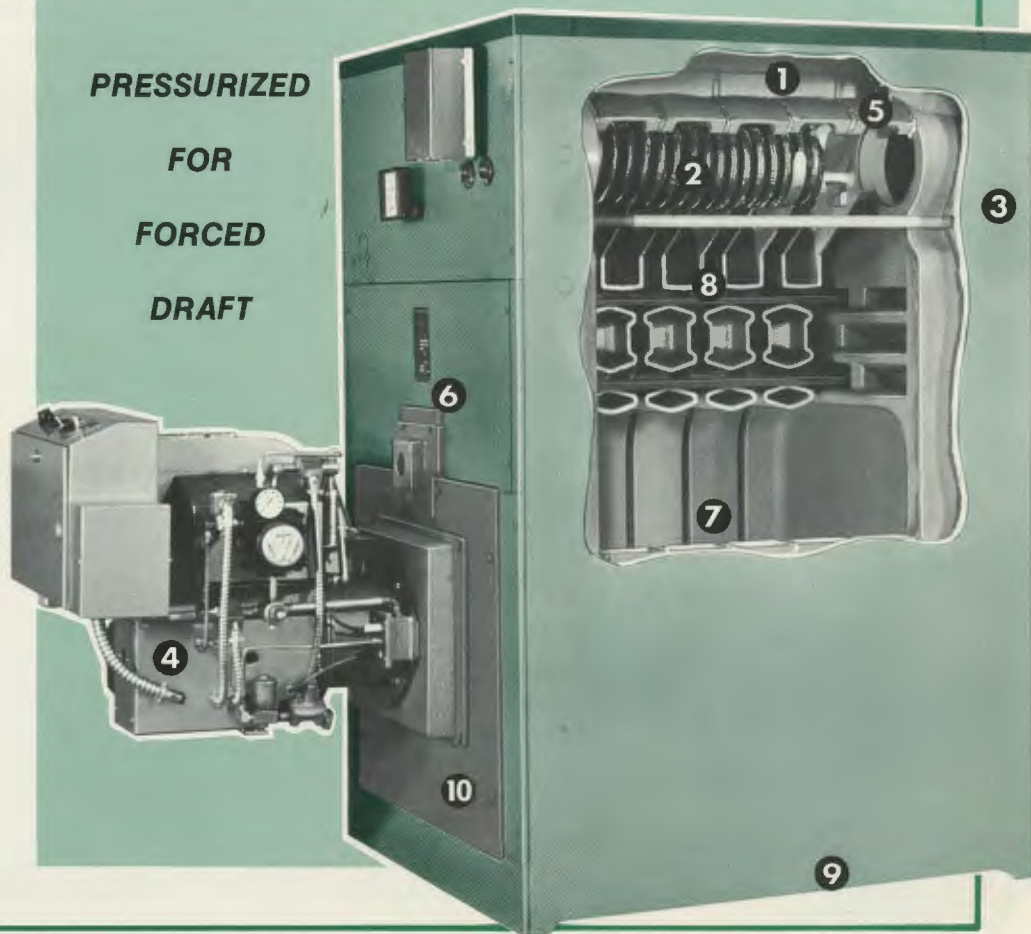
**7** Full wet base water tube sections completely surround combustion area for maximum heat absorption of burning fuel and low floor temperature.

**PRESSURIZED**

**FOR**

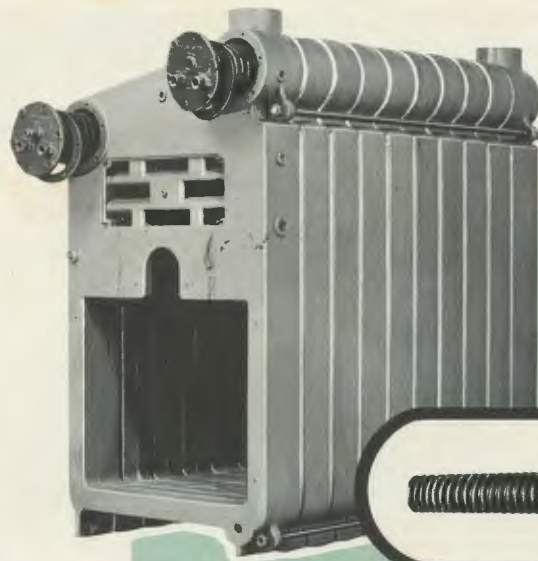
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**DRAFT**

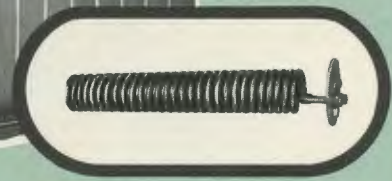




# The SERIES 7FDA



**TANKLESS  
HOT  
WATER  
HEATERS**



The Series 7FDA Cast Iron block assembly featured in the photo, shows two provisions for all copper tankless water heaters, used to furnish domestic hot water. The exclusive Peerless offset three nipple port design provides a unique application for the tankless water heaters in the upper offset ports. This design allows for the use of one or two tankless water heaters on both steam and water models. Actually three provisions are available (water boiler only), one additional provision being located in a special back section at the rear of the boiler (Optional).

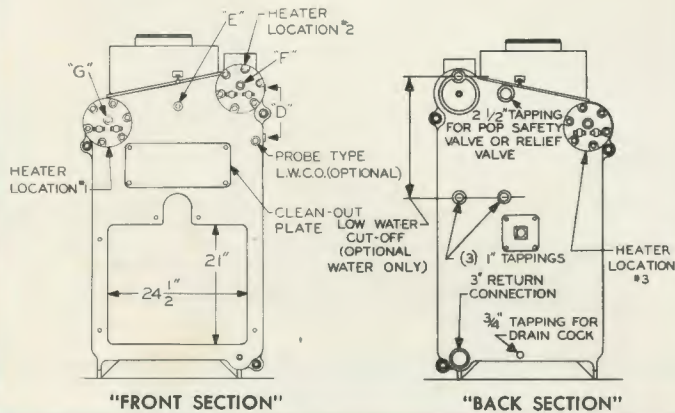
## WATER HEATER AND CONTROL LOCATIONS

### STEAM

- D - Gauge Glass
- E - Pressuretrol
- F - Pressure Gauge
- G - Operating Control

### WATER

- D - Not Used
- E - Theraltimeter
- F - Operating Control
- G - Not Used



## SNOW MELTING, SWIMMING POOLS

With this unique design, a single Series 7FDA Peerless Boiler Burner Unit will, in addition, provide hot water for snow melting and heating of swimming pools from individual built-in heaters. (Write to the factory for three (3) Tankless Water Heater Applications).

THE RIGHT IS RESERVED BY THE MANUFACTURER TO MAKE CHANGES AT ANY TIME WITHOUT NOTICE.



Castings Cert. by the Eastern Foundry Co., a division of Peerless Industries, Inc., Boyertown, Pa.

## Series 7FDA \*TANKLESS WATER HEATER RATINGS

Boiler Model No.	Heater No. X-1020		Heater No. X-1021		Heater No. X-1022		Two Heaters No. X-1020		Two Heaters No. X-1021		Two Heaters No. X-1022				
	G.P.M.	Location **		G.P.M.	Location **		G.P.M.	Location **		G.P.M.	Location **		G.P.M.	Location **	
		Steam	Water		Steam	Water		Steam	Water		Steam	Water		Steam	Water
704FDA	5.5	1	2	—	—	—	8.0	—	1 & 2	—	—	—	—	—	—
705FDA	5.75	1	2	7.0	1	2	—	—	1 & 2	10.5	—	1 & 2	—	—	—
706FDA	6.25	1	2	7.75	1	2	—	—	1 & 2	13.0	—	1 & 2	—	—	—
707FDA	6.5	1	2	8.5	1	2	13.0	1	2	13.0	—	1 & 2	15.5	—	1 & 2
708FDA	7.0	1	2	9.25	1	2	13.75	1	2	14.0	—	1 & 2	17.5	—	1 & 2
709FDA	7.25	1	2	10.0	1	2	14.5	1	2	14.5	1 & 3	1 & 2	20.0	1 & 3	1 & 2
710FDA	7.5	1	2	10.75	1	2	15.5	1	2	15.0	1 & 3	1 & 2	21.5	1 & 3	1 & 2
711FDA	8.0	1	2	11.50	1	2	16.5	1	2	16.0	1 & 3	1 & 2	23.5	1 & 3	1 & 2
712FDA	—	—	—	12.25	1	2	17.5	1	2	—	—	—	24.5	1 & 3	1 & 2
713FDA	—	—	—	13.00	1	2	18.0	1	2	—	—	—	26.0	1 & 3	1 & 2
714FDA	—	—	—	13.00	1	2	18.75	1	2	—	—	—	26.0	1 & 3	1 & 2
715FDA	—	—	—	13.00	1	2	19.5	1	2	—	—	—	26.0	1 & 3	1 & 2
716FDA	—	—	—	13.00	1	2	20.0	1	2	—	—	—	26.0	1 & 3	1 & 2
717FDA	—	—	—	13.00	1	2	20.0	1	2	—	—	—	26.0	1 & 3	1 & 2
718FDA	—	—	—	13.00	1	2	20.0	1	2	—	—	—	26.0	1 & 3	1 & 2
719FDA thru 724FDA	—	—	—	13.00	1	2	20.0	1	2	—	—	—	26.0	1 & 3	1 & 2

\*Water heater ratings are based on intermitted demand—40°F to 140°F Rise with 200°F boiler water.

\*\*Water heater locations may be found on "Water Heater and Control Locations" drawing above.

\*\*\*When two (2) tankless water heaters are used in a steam boiler, a special rear section is furnished at no extra charge—when ordered with boiler.

Caution: Water mixing valve should always be installed in the hot water supply to prevent injury.

**DISTRIBUTED BY**

# PEERLESS

OF BOYERTOWN, PENNSYLVANIA

SINCE 1908

## SERIES

# 7FDA

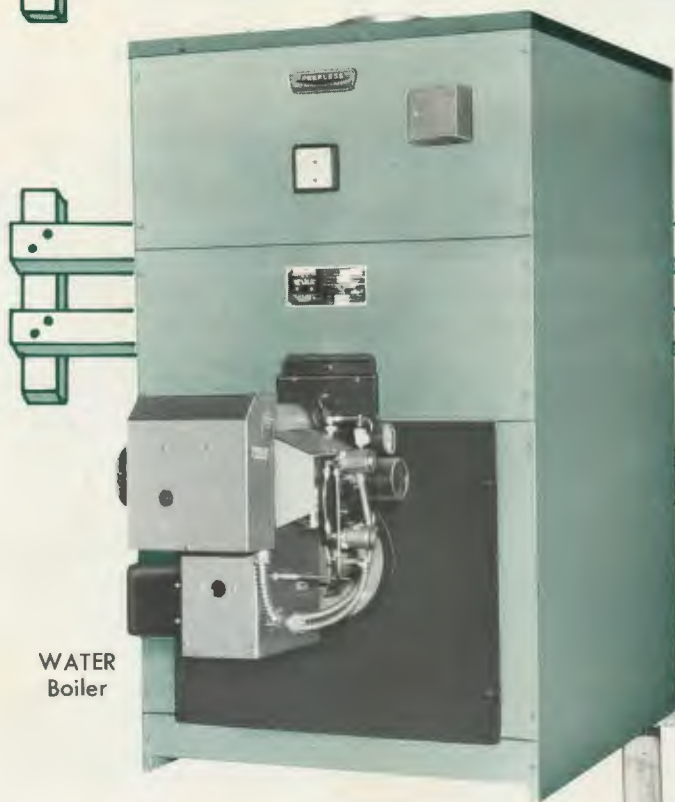
PRESSURIZED FOR NATURAL  
OR FORCED DRAFT

# FACTORY PACKAGED

*OIL-GAS and  
Combination GAS/OIL FIRED*

## CAST IRON BOILER BURNER UNITS

Series 7FDA Oil, Gas or Gas/Oil Fired Cast Iron Boiler Burner Units are available in complete factory packages, Models 704 thru 724, rated 446,000 thru 3,052,000 BTU/Hr. Output. Heavy duty eye bolts are inserted in boiler sections for easy handling by crane.



WATER  
Boiler



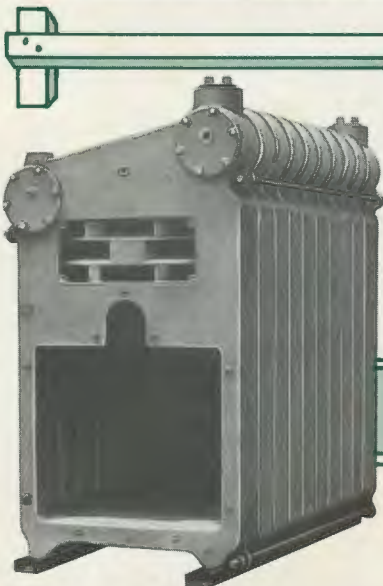
STEAM  
Boiler

All 7FDA boilers are covered with heavy vinyl and packaged in a heavy duty skid bottom crate. This provides protection for the boiler during transportation and handling. The heavy duty skid bottom base allows the boiler to be pipe rolled or handled by a fork lift truck.

**CRATE DIMENSIONS & SHIPPING WEIGHTS**

**SERIES 7FDA PACKAGED BOILERS**

Model No.	Length	Width	Height	Approx. Shipping Weight
704	61"	54"	73"	2190 #
705	66"	54"	73"	2535 #
706	72"	54"	73"	2880 #
707	77"	54"	73"	3225 #
708	82"	54"	73"	3570 #
709	87"	54"	73"	3915 #
710	92"	54"	73"	4260 #
711	97"	54"	73"	4605 #
712	102"	54"	73"	4950 #
713	107"	54"	73"	5295 #
714	112"	54"	73"	5645 #
715	117"	54"	73"	5995 #
716	122"	54"	73"	6345 #
717	127"	54"	73"	6695 #
718	132"	54"	73"	7050 #
719	137"	54"	73"	7405 #
720	142"	54"	73"	7760 #
721	147"	54"	73"	8115 #
722	153"	54"	73"	8470 #
723	158"	54"	73"	8825 #
724	163"	54"	73"	9130 #



Blocked sections are also available and easily handled by fork lift; or with eye bolts inserted in sections for easy handling by crane.

FOR SERIES 7FDA RATINGS, SPECIFICATIONS and DIMENSIONS REFER TO REGULAR 7FDA LITERATURE

**THE PEERLESS HEATER CO.**

SINCE 1908

**BOYERTOWN, PA. 19512**

DIV. OF PEERLESS INDUSTRIES, INC.

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# PEERLESS

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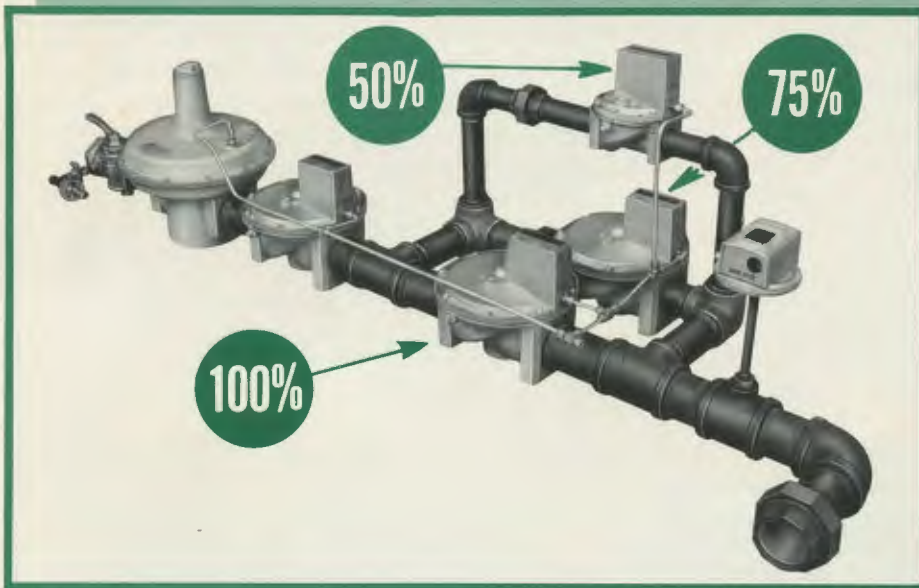
SINCE 1908



Series 211-15W with Mod-U-Pak and Electronic Control Panel

**MOD·U·PAK<sup>®</sup> and  
MOD·U·PAK<sup>®</sup> D/B**

**GAS CONTROL  
SYSTEM**



**MOD·U·PAK<sup>®</sup>**  
**GAS CONTROL SYSTEM**

The Mod-U-Pak system provides maximum boiler efficiency, as the boiler water temperature increases or decreases in direct relationship to a decrease or increase in outdoor temperature.

Maximum performance and economy is assured as the gas input also increases or decreases, as necessary, to meet heating load requirement.



# PEERLESS

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SINCE 1908

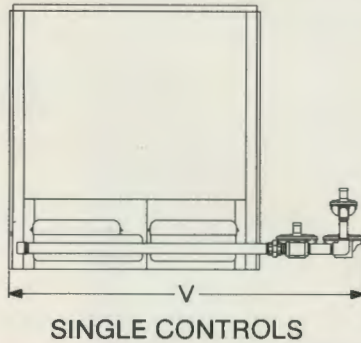
## MOD-U-PAK<sup>®</sup> and MOD-U-PAK<sup>®</sup> D/B GAS CONTROL SYSTEM

**ORDERING INFORMATION**  
When ordering a Single Boiler with Mod-U-Pak System, use standard procedure, but mention "with Mod-U-Pak" and the piping arrangement desired, on your order.  
When ordering a D-B Dual Boiler, state size of each boiler and mention "with Mod-U-Pak D-B" and the piping arrangement you desire, on your order.

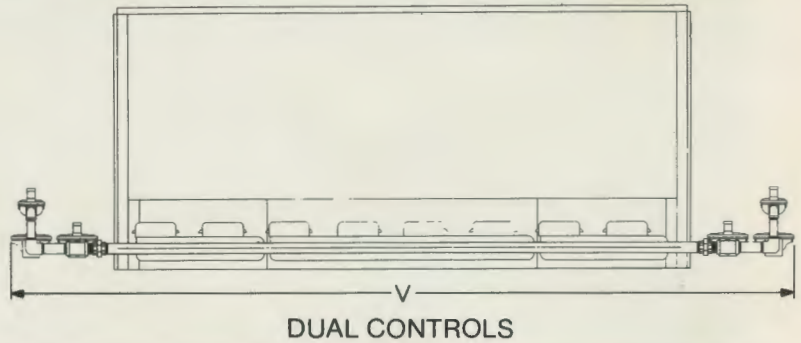
### DIMENSIONAL DRAWINGS AND SPECIFICATIONS

#### MOD-U-PAK<sup>®</sup> SINGLE BOILER SYSTEM

provides three (3) stage modulation of gas input. Refer to "V" dimensions in Standard Piping column.



SINGLE CONTROLS

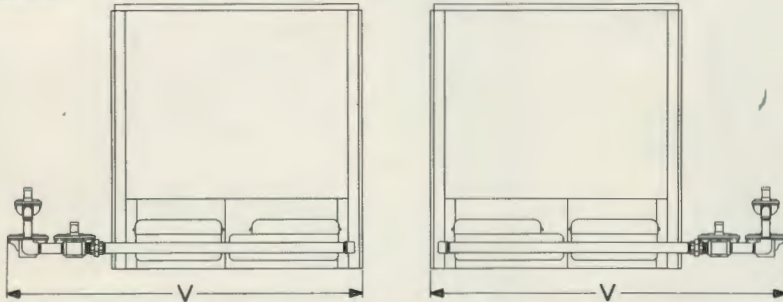


DUAL CONTROLS

#### MOD-U-PAK<sup>®</sup> D/B DUAL BOILER SYSTEM

provides six (6) stage modulation of gas input. Refer to "V" dimensions in Standard Piping column.

For overall width, allow for "V" dimension of two boilers with consideration given to the space desired between boilers.



D/B DUAL BOILER (Single control on each boiler)

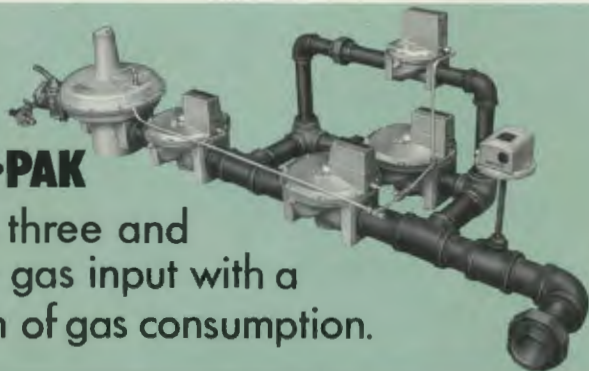
### SIZES & DIMENSIONS

Model No.	Automatic Gas Valve Size Natural Gas			Standard Piping Dimensions "V"	Vertical Piping Dimensions "V"
	50% Rate	75% Rate	100% Rate		
211-4	1-1"	1-1"		44½"	38¾"
211-5	1-1"	1-1¼"		51"	44½"
211-6	1-1"	1-1¼"		56¾"	50½"
211-7	1-1"	1-1¼"		62¾"	55¾"
211-8	1-1"	1-1¼"		68"	61¾"
211-9	1-1¼"	1-1¼"		74¾"	68¾"
211-10	1-1¼"	1-1¼"		80¾"	73¾"
211-11	1-1¼"	1-1½"		86"	79¾"
211-12	1-1¼"	1-2"		95¾"	85"
211-13	1-1¼"	1-2"		100¾"	90¾"
211-14	1-1¼"	1-2"		106¾"	96¾"
211-15	1-1¼"	1-2"		114¾"	104¾"
211-16	1-1½"	1-2"		120¾"	110¾"
211-17	1-1½"	1-2"		126"	116"
211-18	1-1½"	1-2"		131¾"	121¾"
211-19	1-1½"	1-2"		137¾"	127½"
211-20	2-1¼"	2-1½"		153¾"	142¾"
211-21	2-1¼"	2-1½"		160¾"	147¾"
211-22	2-1¼"	2-2"		173¾"	153¾"
211-23	2-1¼"	2-2"		179¾"	159¾"
211-24	2-1¼"	2-2"		184¾"	164¾"
211-25	2-1¼"	2-2"		190¾"	170¾"
211-26	2-1¼"	2-2"		196"	176"
211-27	2-1¼"	2-2"		201¾"	181¾"
211-28	2-1¼"	2-2"		213¾"	193"
211-29	2-1¼"	2-2"		218¾"	198¾"
211-30	2-1½"	2-2"		224¾"	204¾"
211-31	2-1½"	2-2"		229¾"	209¾"
211-32	2-1½"	2-2"		235¾"	215¾"
211-33	2-1½"	2-2"		241"	221¾"
211-34	2-1½"	2-2"		246¾"	226¾"
211-35	2-1½"	2-2"		252¾"	232¾"
211-36	2-1½"	2-2"		258"	238"
211-37	2-1½"	2-2"		264¾"	244¾"

Refer To Standard Literature For Valve & Other Control Sizes

#### PEERLESS MOD-U-PAK

Provides three and six stage gas input with a minimum of gas consumption.



# MOD-U-PAK® and MOD-U-PAK® D/B STANDARD EQUIPMENT

Manual Lever Shut-Off  
Gas Pressure Regulator  
Safety Diaphragm Valve  
Diaphragm Valve (100%)  
Diaphragm Valve (75%) with Precision-Rated Orifice\*  
Diaphragm Valve (50%) with Precision-Rated Orifice\*

Outdoor Temperature-sensing Controls (2)  
Outdoor Reset Control (1)  
Variable Input Capacities  
preset at factory

\*\* Mod-U-Pak  
completely preassembled at factory  
before shipment

\* Precision-Rated Orifice is incorporated in pipe nipple downstream from gas valve.

\*\* Refer to ORDERING INFORMATION

## MOD-U-PAK... FIVE ATTRACTIVE ADVANTAGES

### DUAL BOILER WITH SIX (6) STAGE MODULATION OF GAS INPUT

**1.** A Peerless D-B Mod-U-Pak Gas Control System provides economical six (6) stage firing. During mild weather conditions, one boiler will operate at 50%, 75%, or 100% input of gas. When outside temperature lowers to the point where one boiler is not sufficient to supply the heating requirements, the second boiler starts in operation at 50%, 75%, or 100% input of gas. This six (6) stage firing provides systematically controlled balanced heat with an absolute minimum of gas consumption.

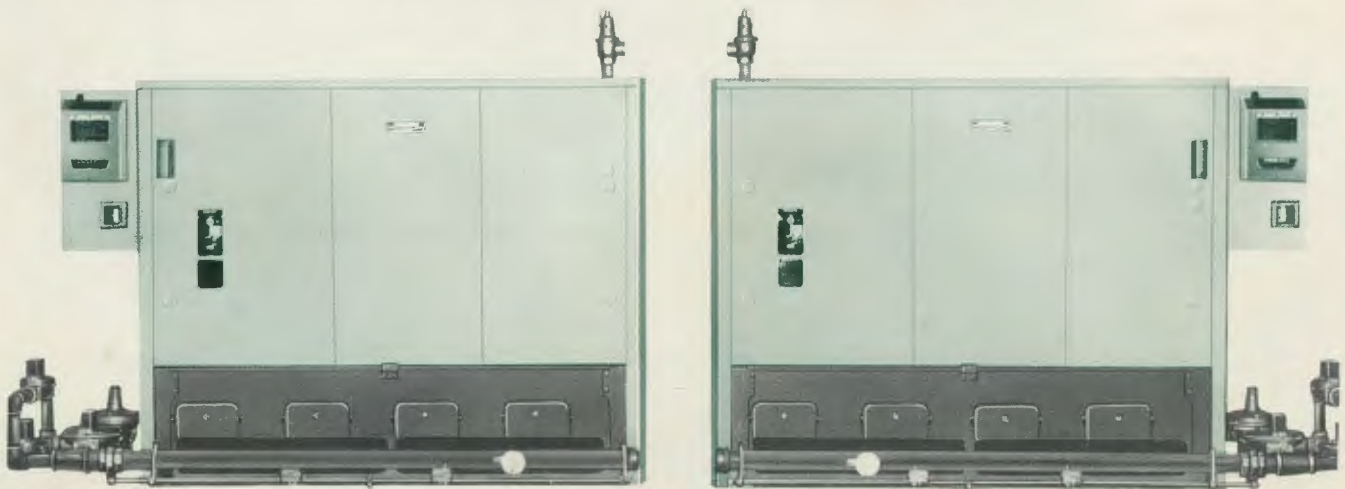
**2.** A Peerless D-B Mod-U-Pak System offers the added advantage of being able to operate one or the other boiler independently in the event that servicing is ever required. A D-B Mod-U-Pak System installed in institutions, apartments, and public buildings means added security and assurance that the building will always be provided with heat.

**3.** A Peerless D-B Mod-U-Pak System is easily installed as featured in illustration above. If boiler room space does not allow for the

above arrangement, boilers can be placed back-to-back or installed in an (L) shape. Piping and wiring can be changed to meet the desired floor arrangement as dictated by boiler room specifications.

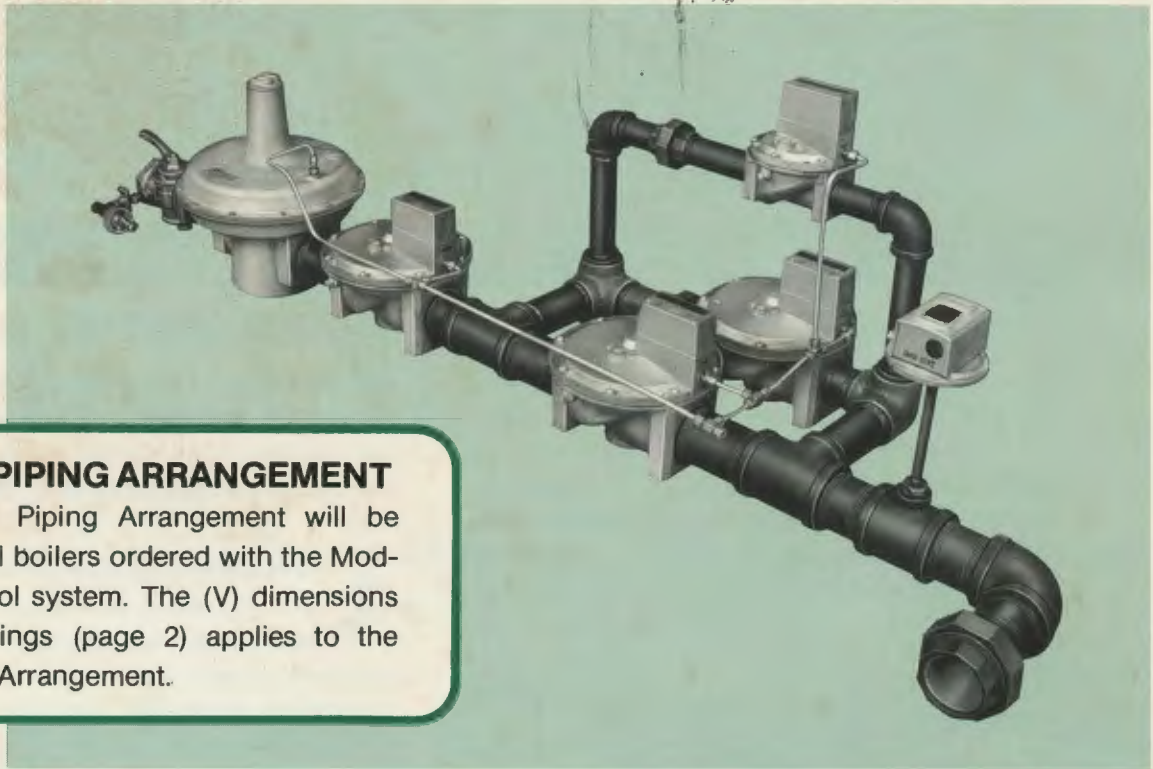
**4.** A Peerless D-B Mod-U-Pak System offers the additional advantages as previously stated and does not appreciably increase the over-all cost in comparison to a single boiler installation. When installing two 211-6 boilers in comparison to a single 211-11 boiler to obtain a 2100 MBH input, the many advantages offered by the D-B Mod-U-Pak more than compensates for the slight difference in price.

**5.** A Peerless D-B Mod-U-Pak System is readily adaptable to the latest requirements of I.R.I. (Industrial Risk Insurers), F.M. (Factory Mutual Insurance Company), and I.R.M. (Insurance Risk Mutual). Peerless Special Electronic Control Systems are also available for use with D-B Mod-U-Pak installations. Consult factory for complete information.



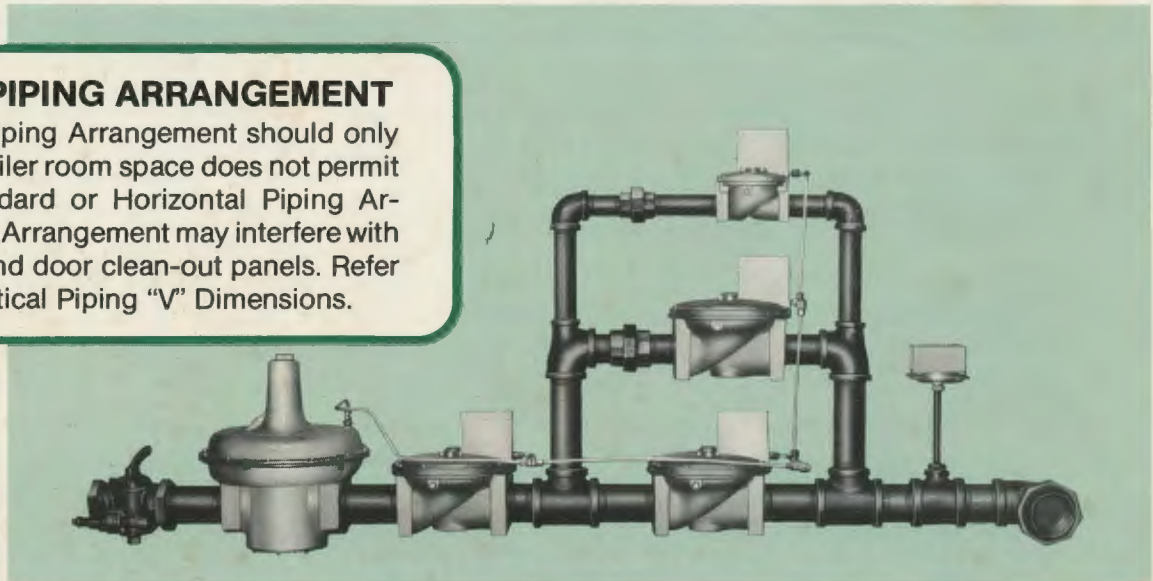
# MOD·U·PAK<sup>®</sup> and MOD·U·PAK<sup>®</sup> D/B

## PIPING ARRANGEMENT OPTIONS



### STANDARD PIPING ARRANGEMENT

The Standard Piping Arrangement will be furnished with all boilers ordered with the Mod-U-Pak gas control system. The (V) dimensions shown on drawings (page 2) applies to the Standard Piping Arrangement.



### OPTIONAL PIPING ARRANGEMENT

The Vertical Piping Arrangement should only be used when boiler room space does not permit the use of Standard or Horizontal Piping Arrangements. The Arrangement may interfere with removal of the end door clean-out panels. Refer to page 2 for Vertical Piping "V" Dimensions.

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