

UTICA BOILERS

AVAILABLE HEATING INPUTS OF: 300 MBH (88 kw) through 1500 MBH (440 kw)

PRODUCT DESCRIPTION

Application – Natural Gas fired steam boilers are available with heating inputs of 300 MBH (88 kw) through 1500 MBH (440 kw). The 13 sizes meet the heating needs for schools, churches, office buildings, factories, etc.

Benefits:

• Units may be grouped to make any size from 300 to 1,500 Btu.

Approvals – Manufactured and tested in accordance with American Society of Mechanical Engineers (ASME) standards. The boiler is certified by the Canadian Standards Association (CSA) in the US. AHRI ratings are certified in accordance with Air Conditioning Heating and Refrigeration Institute. Material and Equipment Acceptance number for the City of New York is MEA 205-89-E.

Boilers with (Optional) CSD-1 Controls – from 500 MBH (88 kw) to 1500 MBH (440 kw) input may be ordered with additional combustion and water or steam controls to meet our interpretation of CSD-1. Controls and installation may be subject to approval by local inspectors. Additional parts or equipment may be required. Consult local authorities having jurisdiction before boiler installation.

Warranty – Cast iron boiler has a ten year limited warranty on the individual sections. All other components have a limited warranty for one year unless the component manufacturer extends their warranty.

STANDARD FEATURES

Cabinet:

- Constructed of heavy gauge steel with an enamel paint finish.
- Fully insulated with fiberglass insulation, keeping surface temperatures low.
- Supply and return connections are furnished on both sides of the cabinet.
- Burner access panel is easily removed for servicing.

JE Cast Iron Commercial Steam Boiler

P/N# 240010462, Rev. A [02/2014]

Cast Iron Boiler Assembly – Long life cast iron boilers are field assembled using tie rods and cast iron push nipples. When the boiler is heated, sections and push nipples expand and contract in the same proportion because they are constructed of like material, providing a positive water tight seal. A combination of burner modules are set to meet specific capacity requirements.

Benefits:

 Individually shipped boiler sections for ease of handling & easy passage through conventional doors.

Boiler flueways easily accessible for cleaning & servicing.

Electronic Ignition: Solid-state electronic spark igniters provide for positive ignition of the pilot burners on each operating cycle. Pilot gas is ignited and burns during each running cycle of the boiler. Main burners and pilot gas are extinguished during the off cycle. Ignition system permits the main gas valve to open only when the pilot burner is proven to be lit. Pilot operation is fully automatic on demand for heat. Should loss of flame occur, the main valve closes, shutting down the individual base. Other bases can remain lit.

Automatic Gas Control – The compact 24 Volt redundant combination gas control valve combines:

- Automatic safety pilot
 Manual shut off (On-Off)
- Pilot filtration
 Automatic electric valve (dual)
- Gas pressure regulation

Dual valve design provides double assurance of 100% shut off of gas to the pilot and main burners on each off cycle.

Aluminized Steel Burners – Each lanced port burner provides quiet and clean combustion.

Drain Valve (Brass) – 3/4" (19mm) is furnished as standard equipment for field installation on the side of the boiler. See dimensional drawing for location.

STANDARD STEAM TRIM LIST

Low Water Cut Off (LWCO) – is furnished with the boiler and will automatically shut off gas to the burners if the water level drops below minimum safe levels.

Pressuretrol – Adjustable steam pressure operating control automatically shuts off gas to the burners if steam pressure reaches cut-off setpoint.

Water Level Gauge – Allows for a visual inspection of the water level in the boiler.

Safety Relief Valve – The field installed valve provides pressure relief of the heating system in case of abnormal conditions. Valve opens at 15 psig (103 kPa) and is rated by AHRI.

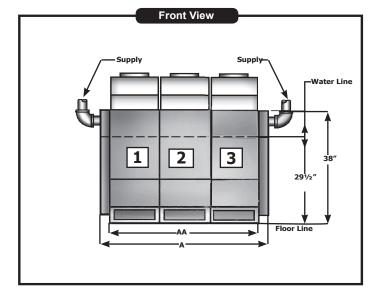
JE CAST IRON COMMERCIAL STEAM BOILER

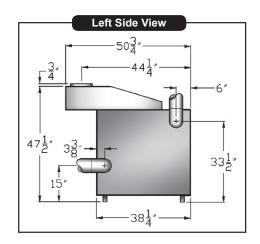
	Input	Input Gross		Net AHRI Ratings			Base Size & Flue Outlet			Chimney Size (4)	Vent				
Model	(Mbh) (1)	Out- put (Mbh)		eam F) ⁽²⁾	Steam (Sq. Ft.) ⁽³⁾	Steam (Mbh) ⁽²⁾	300 (8")	400 (10")	500 (12")	I.D. x Ht.	Connector Size to Chimney ⁽⁴⁾	Therm. Eff.	Comb Eff		
JE-300S	300	233	1.3	333	729	175	1	0	0	8" x 20'	8	77.0	80.4		
JE-400S	400	310	1.3	333	971	233	0	1	0	10" x 20'	10	77.0	80.5		
JE-500S	500	388	1.3	333	1213	291	0	0	1	12" x 20'	12	77.0	80.5		
JE-600S	600	465	1.3	333	1454	349	2	0	0	12" x 20'	12	77.0	80.4		
JE-700S	700	543	1.3	333	1696	407	1	1	0	12" x 20'	12	77.0	80.5		
JE-800S	800	620	1.3	333	1938	465	0	2	0	14" x 20'	14	77.0	80.5		
JE-900S	900	698	1.3	333	2183	524	0	1	1	14" x 20'	14	77.0	80.5		
JE-1000S	1000	775	1.3	333	2421	581	0	0	2	14" x 20'	14	77.0	80.5		
JE-1100S	1100	853	1.3	333	2667	640	1	2	0	16" x 20'	16	77.0	80.5		
JE-1200S	1200	930	1.3	333	2908	698	0	3	0	16" x 20'	16	77.0	80.5		
JE-1300S	1300	1008	1.3	333	3150	756	1	0	2	16" x 20'	16	77.0	80.5		
JE-1400S	1400	1085	1.3	333	3392	814	0	1	2	18" x 20'	18	77.0	80.5		
JE-1500S	1500	1163	1.3	333	3633	872	0	0	3	18" x 20'	18	77.0	80.5		
R	ight & Le	eft End	Tappi	ings l	Data										
			Opening	Size	Steam	level.				,	, reduce all ratings 4% for	,	et above sea		
			А	4″	Supply and Retur	n before sel	ecting boiler	for installation	s having unus		00-1500). Contact Technic Ip factors, such as interm				
D	The Real Property in	, F	в	1/2″	Primary LWCO and Gauge Glass set	3. Ratings	in square fe		ed at 240 Btuh	/square foot for ste typical venting syst	am boilers. em as shown in Figure 6 c	of the Installation	on		
A		Б В	С	3/4″	Drain, Left End						ype B double wall vent an ion And Venting section o				
100 100 100 100 100 100 100 100 100 100	D	G	С	3/4″	Drain, Right End	54-latest i	evision, or A	SHRAE HVAC	Systems and E	quipment Handbool	National Fuel Gas Code, A , Chimney, Gas Vent, and	Fireplace Syst	ems,		
SEL		A	D	1/2″	Plugged		ndard for Ch ig practice.	imneys, Firepla	aces, Vents, ar	nd Solid Fuel Burnin	g Appliances. NFPA 211. F	ollow standard			
		E F	E	1″	Accessories	Certific	ations		DESIGN		\sim				
C -			*F	1″	Safety Valve								0		
			G	3/4″	Plugged or Electronic (Probe Type) LWC	:o							www.ahridirectory.org		

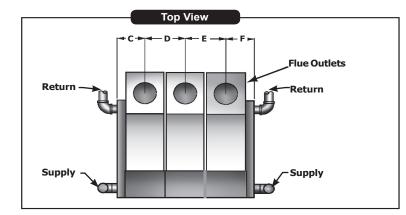
*If opening F is to be used for something other than the Safety Valve or Pressure Relief Valve, or the Safety/Relief Valve is larger than 1", the Safety/Relief Valve must be installed in the Header Piping as near to the boiler as possible.

All ratings and specifications subject to change.

JE CAST IRON COMMERCIAL STEAM BOILER



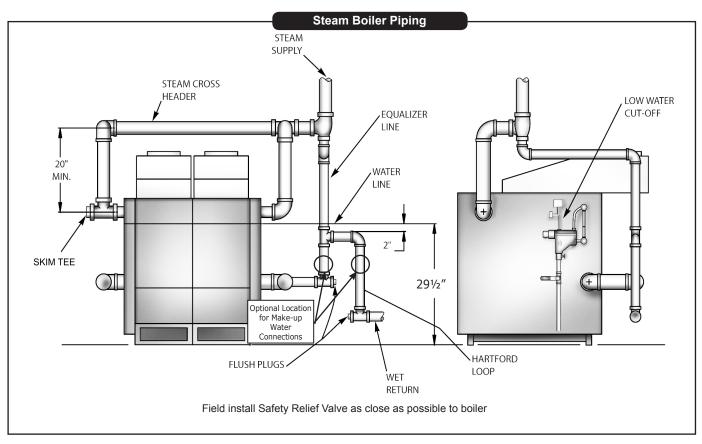




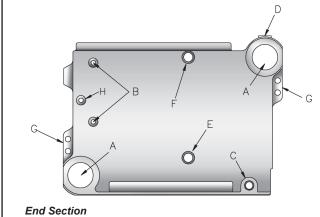
ALL SUPPLY AND RETURN CONNECTIONS ARE 4 INCH

Boiler Model No.	Water Content in Gallons Water	Shipping Weight Lbs.	A Jacket Width L to R	AA Base & Battery Length	с	D	E	F
D-249 300	20	922	20 3/4	16 3/4	10 3/8		-	10 3/8
D-249 400	25	1133	25	21	12 1/2		-	12 1/2
D-249 500	30	1344	29 1/4	25 1/4	14 5/8		-	14 5/8
D-249 600 D-249 700 D-249 800 D-249 900 D-249 1000	35 40 45 50 55	1555 1766 1977 2188 2399	33 1/2 37 3/4 42 46 1/2 50	29 1/2 34 3/4 38 42 1/4 46 1/2	10 3/8 10 3/8 12 1/2 12 1/2 14 5/8	12 3/4 14 7/8 17 19 1/8 21 1/4	- - - -	10 3/8 12 1/2 12 1/2 14 5/8 14 5/8
D-249 1100	60	2610	54 3/4	50 3/4	10 3/8	14 7/8	17	12 1/2
D-249 1200	65	2821	59	55	12 1/2	17	17	12 1/2
D-249 1300	70	3032	63 1/4	59 1/4	103/8	17	21 1/4	14 5/8
D-249 1400	75	3243	67 1/2	63 1/2	12 1/2	19 1/8	21 1/4	14 5/8
D-249 1500	80	3454	71 3/4	67 3/4	14 5/8	21 1/4	21 1/4	14 5/8

JE CAST IRON COMMERCIAL STEAM BOILER DIMENSIONS AND SPECIFICATIONS



End Section Tappings



Tappings are the same in both Right and Left End Sections, except for the drain valve tapping which is $1 \frac{1}{2}$ " Left End, and $\frac{3}{4}$ " Right End.

Opening	Size	Steam				
A	4"	Supply and Return				
В	1/2"	Primary LWCO and Gauge Glass Set				
С	3/4"	Drain, Left End				
С	3/4"	Drain, Right End				
D	1/2"	Plugged				
Е	1"	Accessories				
F	1"	Safety Relief Valve				
G	-	Tie Rod Holes				
н	3/4"	Plugged or Secondary (Probe Type) LWCO				

Contractor Assistance: 800.325.5479



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