

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND

BUILDING PERMIT

This is to certify that Ester Albert Realty LLC

Located At 119 MORNING ST

Job ID: 2011-10-2453-HVAC

CBL: 014- N-010-001

has permission to Install HB Smith heating system

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

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

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

Fire Prevention Officer

Code Enforcement Officer / Plan Reviewer

**THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY
PENALTY FOR REMOVING THIS CARD**



CITY OF PORTLAND, MAINE

Department of Building Inspections

Original Receipt

00011 2011

Received from Mechanical Services

Location of Work 119 Manning St.

Cost of Construction \$ _____ Building Fee: _____

Permit Fee \$ _____ Site Fee: _____

Certificate of Occupancy Fee: _____

Total: 300.00

Building (IL) Plumbing (I5) _____ Electrical (I2) _____ Site Plan (U2) _____

Other N/A

CBL: 014 NOLU

Check #: 4524 Total Collected \$ 300.00

**No work is to be started until permit issued.
Please keep original receipt for your records.**

Taken by: [Signature]

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: buildinginspections@portlandmaine.gov

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

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

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

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



PORTLAND MAINE

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

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2011-10-2453-HVAC

Located At: 119 MORNING ST

CBL: 014- N-010-001

Conditions of Approval:

Zoning

1. This property shall remain twenty-eight (28) dwelling units. Any change of use shall require a separate permit application for review and approval.
2. This is NOT an approval for an additional dwelling unit. You SHALL NOT add any additional kitchen equipment including, but not limited to items such as stoves, microwaves, refrigerators, or kitchen sinks, etc. without special approvals.

Fire

Installation shall comply with City Code Chapter 10.

Fuel-fired boilers shall be protected in accordance with NFPA 101, *Life Safety Code*.

Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;

NFPA 54, *National Fuel Gas Code*;

NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*;

NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*;

NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, FAX: (207) 8716

Job No: 2011-10-2453-HVAC	Date Applied: 10/11/2011	CBL: 014- N-010-001	
Location of Construction: 119 MORNING ST	Owner Name: Ester Albert Reality LLC	Owner Address: 119 MORNING ST PORTLAND ME, 04101	Phone:
Business Name:	Contractor Name: Mechanical Services, Inc	Contractor Address: 400 Presumpscot St, Portland, ME 04103	Phone: 774-1531
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: R-6
Past Use: 28 dwelling units	Proposed Use: Same: 28 dwelling units – to install H.B. Smith heating system	Cost of Work: \$28,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: R-2 Type: HYPER
		Signature: <i>Capt. Purton 10/31/11</i>	Signature: <i>[Signature]</i>
Proposed Project Description: Install H.B. Smith 28A-S-6 in the basement		Pedestrian Activities District (P.A.D.)	

Permit Taken By: Gayle	Zoning Approval		
<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetlands <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan <input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM Date: <i>OK with conditions 10/27/11</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Historic Preservation <input checked="" type="checkbox"/> Not in Dist or Landmark <input type="checkbox"/> Does not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
	CERTIFICATION		

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



2011 10 24⁵³ 014 N 010 R6

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

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

Location 119 MORNING STREET Use of Building Apartment Date 10/6/11
 Name and address of owner of appliance Esther Albert Realty LLC
225 EAST 36th STREET / APT 5N, NEW YORK, NY 10016
 Installer's name and address MECHANICAL SERVICES, INC.
400 PRESUMPSCOT STREET, PORTLAND, ME 04103 Telephone 207-774-1531

Location of appliance:

- Basement
- Attic
- Floor
- Roof

Type of Fuel:

- Gas
- Oil
- Solid

Appliance Name: H.B. SMITH 28A-S-6

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain:

RECEIVED

The Type of License of Installer:

OCT 11 2011

- Master Plumber # _____
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 2355
- Other _____

Dept. of Building Inspections
City of Portland Maine

Type of Chimney:

- Masonry Lined
Factory built _____
- Metal
Factory Built U.L. Listing # _____
- Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil N/A
- Gas N/A

Size of Tank N/A

Number of Tanks N/A

Distance from Tank to Center of Flame N/A feet.

27,745.00

300.00

Approved

Approved with Conditions

Fire: _____
 Ele.: _____
 Bldg.: _____

See attached letter or requirement

Signature of Installer [Signature] - mechanical Services

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

PRODUCT DATA

Smith Steam Boilers [28A Series] Pressurized Wet Base Boiler/Burner Unit



Designed to provide the highest efficiencies possible with forced draft firing. This new product line of Smith cast iron boilers is available in fifteen basic sizes, with gross output ratings from 931 to 4,622 MBH. Series 28HE boilers may be used in steam systems, and may be fired with light oil, gas or gas/light oil.

STANDARD FEATURES

- Cast iron wet base sections tested for 80 psi working pressure, 15 psi steam working pressure
- Insulated metal jacket
- Burner mounting plate with insulation block
- Front and rear flame observation ports
- Steel angle floor rails
- Ceramic fiber rope seal between sections
- Graphite port connectors
- Flue brush
- Manual reset hi-limit
- Operating control

ADDITIONAL FEATURES FOR STEAM BOILERS

- A.S.M.E. side outlet safety valve, 15 psi
- Gauge glass with cocks and guards

I B R Ratings, Burner Capacities

Designed and tested to the A.S.M.E. boiler and pressure vessel code, section IV for maximum allowable working pressure, steam 15 PSIG, water 80 PSIG.

Boiler Number (Note 1)	Boiler Horse-power	I=B=R Gross Output (MBH)	Net I=B=R Ratings (Note 2)				Heating Surface (Sq. Ft.)	Furnace Volume (Cu. Ft.)	Water Contents (Gals.)	Working Weight (Lbs.)
			Steam		I=B=R Burner Capacity					
			Sq. Ft.	MBH	Oil GPH (Note 3)	Gas MBH (Note 4)			Steam	
†28A-S-4	27	900	2813	675	8.0	1154	81.2	12.04	102.8	4,215
†28A-S-5	35	1166	3646	875	10.4	1491	105.3	16.14	125.8	5,038
†28A-S-6	43	1433	4538	1089	12.6	1827	129.4	20.24	147.8	5,861
†28A-S-7	51	1699	5458	1310	15.0	2163	153.5	24.34	169.8	6,684
†28A-S-8	59	1965	6358	1526	17.4	2499	177.6	28.44	191.8	7,507
†28A-S-9	67	2232	7221	1733	19.6	2836	201.7	32.54	213.8	8,331
†28A-S-10	75	2498	8079	1939	22.0	3172	225.8	36.64	235.8	9,169
†28A-S-11	83	2764	8942	2146	24.5	3508	249.9	40.74	257.8	9,992
†28A-S-12	91	3031	9804	2353	26.5	3844	274.0	44.84	279.8	10,815
†28A-S-13	98	3297	10667	2560	29.0	4180	289.1	48.94	301.8	11,649
†28A-S-14	106	3563	11525	2766	31.5	4517	322.2	53.04	323.8	12,467
†28A-S-15	114	3830	12392	2974	33.5	4853	346.3	57.14	345.8	13,511
†28A-S-16	122	4096	13250	3180	36.0	5189	370.4	61.24	367.8	14,375
†28A-S-17	130	4362	14113	3387	38.5	5525	394.5	65.34	398.8	15,239
†28A-S-18	138	4629	14975	3594	40.5	5862	418.6	69.44	411.8	16,103

(Note 1) Important Ordering information

(†) Add Prefix for type of fuel to be burned. "LO" for light oil, "G" for Gas or "GO" for gas/oil. Example: LO-28A-S-6 is the model no. for a six section steam boiler firing light oil.

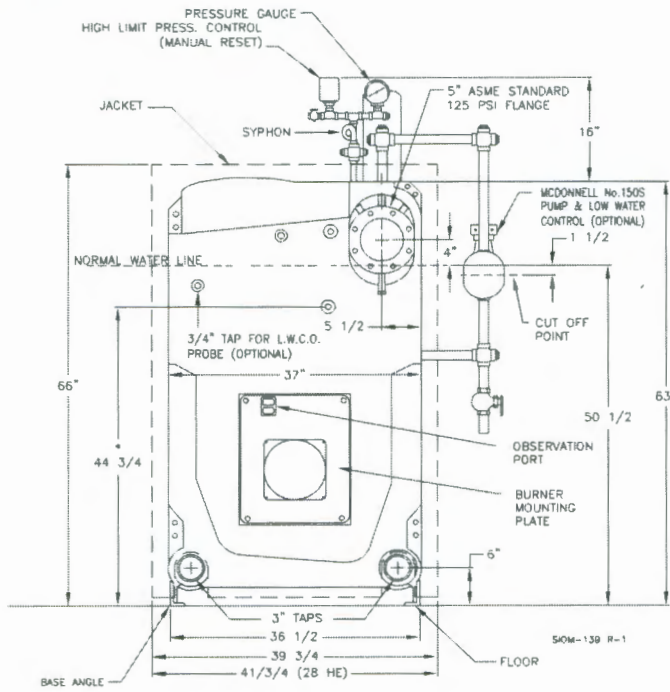
(Note 2) Net I=B=R Ratings for steam boilers are based on piping and pick-up factor as follows:
4 and 5 section = 1.333
6 section = 1.305
8 section and larger = 1.288

(Note 3) Light oil having a heat content of 140,000 BTU/Gal.

(Note 4) Gas having a heat content of 1,000 BTU/Cu. Ft., 0.60 specific gravity

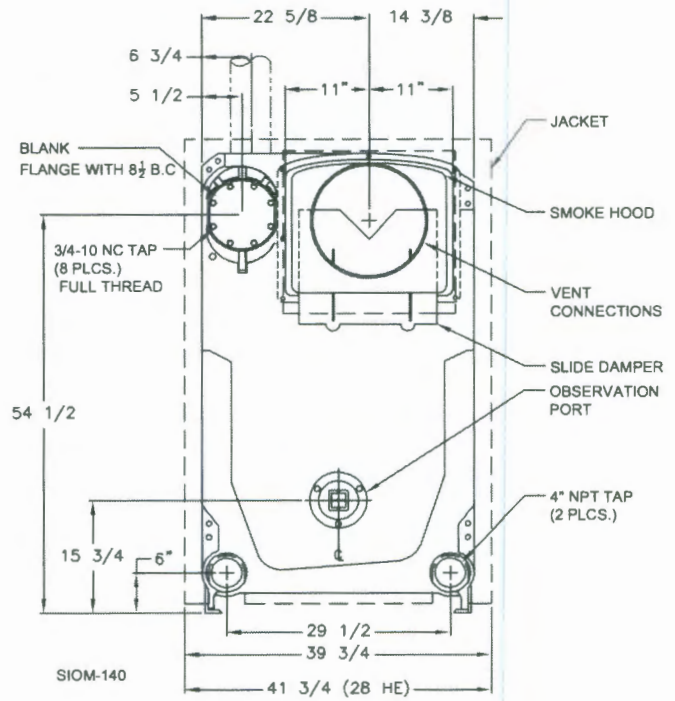
119 MORNING STREET

28A Series

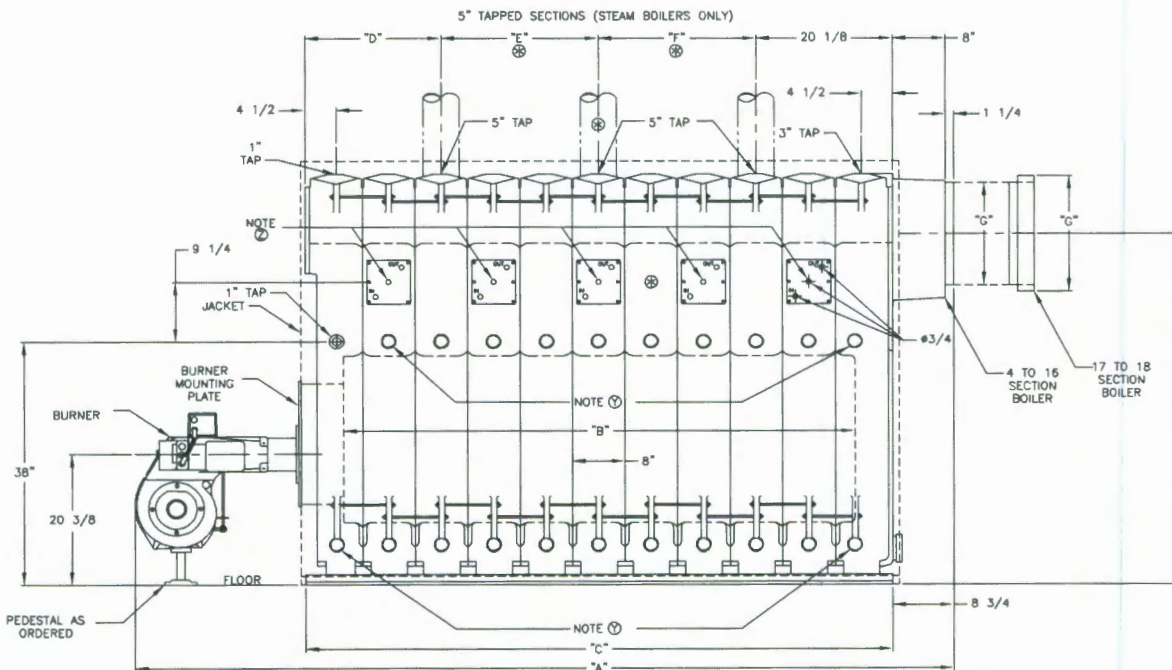


* LOWEST PERMISSIBLE WATER LINE

FRONT VIEW (Steam Boiler)



REAR VIEW



⊗ When 5th heater is required-relocate steam uptake and dimensions "E" = 32 in. and "F" = 16 in.

SIDE VIEW

(Note Y) 1-1/2" inspection tappings when ordered.

(Note Z) Tankless heater sections when ordered. Allow 36" clear space for heater withdrawal.

Dimensions (inches)

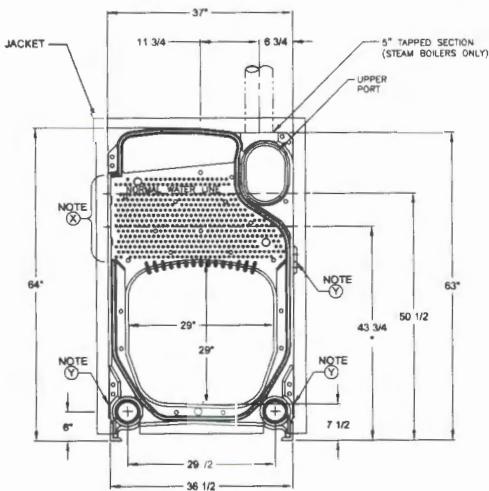
Boiler Number (Note 1)	Overall Length — "A"				Opt. Packaged Base Dimensions				Furnace Length "B"	Boiler Length "C"	Steam Uptake Locations (Note 9)			Draft Loss Ins. W.C.	Firebox Press. Ins. W.C.††	Dia. Vent Conn. "G"	(Note 7) Height Vent Conn. "H"
	(Note 8)				Carlin & Beckett		Power Flame and Webster				"D"	"E"	"F"				
	Carlin	Beckett	Power Flame	Webster	"J"	"K"	"J"	"K"									
†28A-S-4	62½	64	71½	66½	54½	83½	54½	91½	23½	33	12½	—	—	.24	.34	10	57½
†28A-S-5	70½	72	83½	74½	62½	91½	62½	104½	31½	41	20½	—	—	.25	.35	10	57½
†28A-S-6	80½	80½	91½	82½	70½	99½	70½	112½	39½	49	12½	16	—	.26	.36	10	57½
†28A-S-7	88½	88½	99½	90½	78½	107½	78½	120½	47½	57	12½	24	—	.27	.37	12	56½
†28A-S-8	96½	96½	107½	98½	86½	115½	86½	128½	55½	65	12½	32	—	.28	.38	12	56½
†28A-S-9	108½	104½	115½	110½	96½	123½	94½	136½	63½	73	12½	40	—	.29	.39	14	55½
†28A-S-10	116½	116½	128	118½	102½	135½	102½	144½	71½	81	20½	40	—	.30	.40	14	55½
†28A-S-11	125½	124½	137½	126½	110½	143½	110½	157½	79½	89	20½	24	24	.31	.41	14	55½
†28A-S-12	133½	132½	145½	134½	118½	151½	118½	165½	87½	97	20½	24	32	.33	.43	14	55½
†28A-S-13	141½	—	153½	142½	126½	159½	126½	173½	95½	105	20½	32	32	.34	.44	14	55½
†28A-S-14	149½	—	161½	150½	134½	167½	134½	181½	103½	113	20½	32	40	.35	.45	16	54½
†28A-S-15	—	—	169½	158½	—	—	142½	189½	111½	121	20½	40	40	.36	.46	16	54½
†28A-S-16	—	—	177½	166½	—	—	150½	198	119½	129	20½	48	40	.37	.47	16	54½
†28A-S-17	—	—	191½	183½	—	—	159	206	127½	137	20½	48	48	.38	.48	18	54½
†28A-S-18	—	—	199½	191½	—	—	167½	214½	135½	145	20½	56	48	.39	.49	18	54½

(Note 7) When unit is assembled or packaged, add 6" to heights for 4-14 sect., 8" to heights for 15-18 sect.

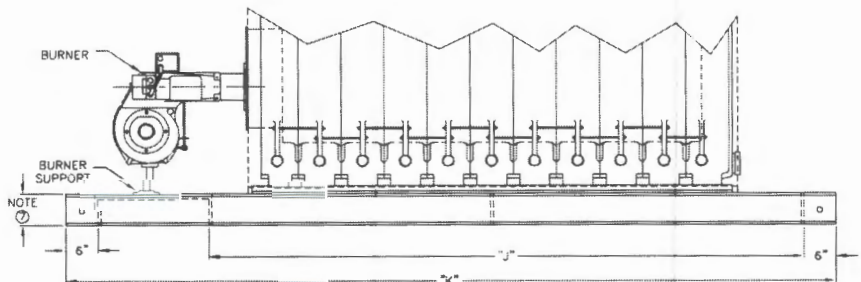
(Note 8) Add 2-3/4" to sect. 17 and 18 for smoke hood adaptor.

(††) Based on 0.10 ins. W.C. pressure at boiler outlet. If vent sizing results in a back pressure greater than 0.10 ins. W.C., consult Smith.

(Note 9) These measurements are approximate. The Smith representative should be consulted before selecting boilers for installation having unusual piping and pick-up requirements, such as intermittent system operation, extensive piping systems, etc. The boiler ratings have been determined under previous governing forced draft units.



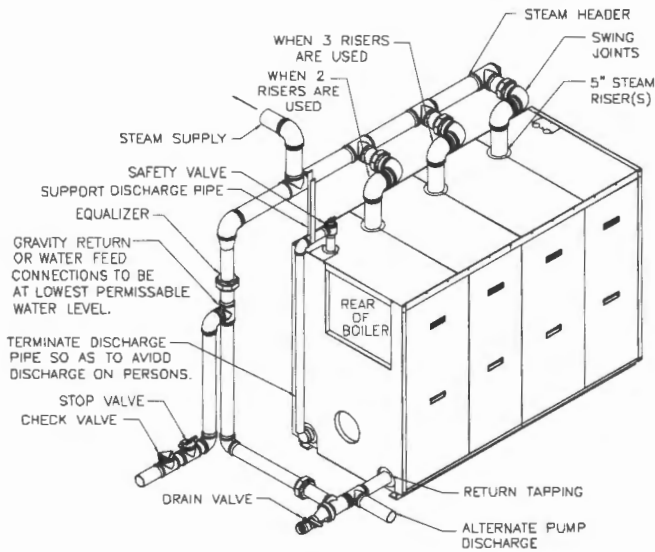
INTERMEDIATE VIEW



TYPICAL ASSEMBLY – SIDE VIEW

(Note X) Flue cleanout opening. Allow 36" clear work space for using flue brush.

Recommended Steam Piping Diagram



Boiler Section	No. of		
	5" Risers	Header	Equalizer
28A-S-4 & 5	1	5"	2-1/2"
28A-S-6 & 7	2	5"	2-1/2"
28A-S-8 thru 10	2	6"	4"
28A-S-11 thru 18	3	8"	4"

Burner Specifications

Boiler Number	Burners - Light Oil						Burners - Gas		Burners - Gas/Oil	
	Carlin (Note 5)		Beckett (Note 5)		Power Flame (Note 6)		Power Flame (Note 6)		Power Flame (Note 6)	
	Model No.	H.P.	Model No.	H.P.	Model No.	H.P.	Model No.	H.P.	Model No.	H.P.
†28A-S-4	702CRD	½	CF1400	½	C1-0	½	J30A-12	½	C1-G0-12	½
†28A-S-5	702CRD	½	CF1400	½	C1-0	½	J50A-15	½	C1-G0-12	½
†28A-S-6	801CRD	¾	CF2300	¾	C2-0A	¾	J50A-15	½	C2-G0-15	1
†28A-S-7	801CRD	¾	CF2300	¾	C2-0A	¾	J50A-15	½	C2-G0-15	1
†28A-S-8	801CRD	¾	CF2300	¾	C2-0B	1	C2-G-20A	¾	C2-G0-20A	1
†28A-S-9	1050FFD	1	CF2300	¾	C2-0B	1½	C2-G-20B	1	C2-G0-20B	1½
†28A-S-10	1050FFD	1	CF2500	2	C2-0B	1½	C2-G-20B	1	C2-G0-20B	1½
†28A-S-11	1150FFD	1½	CF2500	2	C3-0	2	C3-G-20	1½	C3-G0-20	2
†28A-S-12	1150FFD	1½	CF3500A	2	C3-0	2	C3-G-25	1½	C3-G0-25	2
†28A-S-13	1150FFD	1½	CF3500A	2	C3-0	2	C3-G-25	1½	C3-G0-25	2
†28A-S-14	1150FFD	1½	—	—	C3-0	2	C3-G-25	1½	C3-G0-25	2
†28A-S-15	—	—	—	—	C3-0B	3	C3-G-25B	3	C3-G0-25B	3
†28A-S-16	—	—	—	—	C3-0B	3	C3-G-25B	3	C3-G0-25B	3
†28A-S-17	—	—	—	—	C4-0A	5	C4-G-25	3	C4-G0-25	5
†28A-S-18	—	—	—	—	C4-0A	5	C4-G-25	3	C4-G0-25	5

(Note 5) Burner operation: Low-High-Low (4-14 sect.).

(Note 6) Burner operation: Low-High-Low, (4-9 sect.); Modulation (10-18 sect.).

Smith
CAST IRON BOILERS

WESTCAST, INC.
260 NORTH ELM STREET WESTFIELD, MA 01085
TEL. (413) 562-9631 FAX (413) 562-3799
www.smithboiler.com