

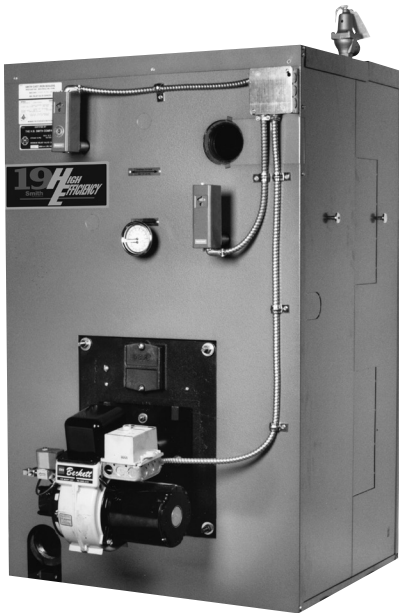
Smith

CAST IRON BOILERS

COMMERCIAL TRADE PRICE SHEET

CAST IRON BOILERS AND ACCESSORIES
GAS • OIL • COMBINATION GAS/OIL

FORCED
DRAFT



19HE



28HE
RTS-HE

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FREIGHT TERMS EFFECTIVE AUGUST 2, 2021

F.O.B. Boyertown, PA

Items not in stock in Boyertown, PA are F.O.B. point of origin.

LTL / TRUCKLOAD SHIPMENTS		
Shipping & Handling Charges Per Order and Ship to Location		
Net Value Single Order ⁽¹⁾	Zone 1	Zone 2
Up to \$2500	\$275	\$275
\$2500+ to \$5000	\$340	\$430
\$5000+ to \$7500	\$480	\$590
\$7500+ to \$10,000	\$611	\$750
\$10,000+ to \$15,000	\$700	\$800
\$15,000+ to \$30,000	\$800	\$900
\$30,000+ to \$60,000	\$1000	\$1100
\$60,000+	FFA*	FFA*

Zone Breakdown

Zone 1 DE, KY, MD, NC, OH, PA, SC, TN, VA, WV, NJ, NY**

Zone 2 CT, MA, NH, RI, VT

For all remaining states, flatbed and liftgate information consult factory.

Extra stops all carriers add \$150 / stop (truckload only)

*Orders cannot be combined for Full Freight Allowed Shipping

** For New York City and Long Island add \$150.00

⁽¹⁾ Consult factory on orders with multiple trucks.

Packaged and Assembled Boilers

Consult factory for shipping charges.

EXPLANATION OF RATINGS

I=B=R GROSS OUTPUT: Heat output of the boiler based on tests conducted in accordance with Hydronics Institute procedures. Applies to oil, gas, and gas-oil boilers with power burners when the input is 300,000 BTU/Hr. and over.

NET I=B=R RATINGS: The D.O.E. heating capacity, A.G.A. gross output, or I=B=R gross output less allowance for piping and pickup. The amount of allowance as prescribed by the I=B=R Testing and Rating Code for Low Pressure Cast Iron Heating Boilers.

I=B=R INPUT: Firing rate in gallons per hour of oil or BTU/Hr. of gas in accordance with Hydronics Institute test procedures.

ASME: All Smith boilers meet the requirements and are built in accordance with the American Society of Mechanical Engineers.

GENERAL NOTES

The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements such as intermittent system operations, extensive piping systems, etc.

For forced hot water heating systems where the boiler and all the piping are within the area to be heated, the boiler may be selected on the basis of its I=B=R Gross Output.

All boilers hydrostatically tested – A.S.M.E. standard.

Net I=B=R Steam Ratings are based on a piping and pickup allowance of 1.333.

Net I=B=R Water Ratings based on an allowance of 1.15.

GAS FIRED BOILERS: Boiler ratings on gas and gas/oil equipment are based upon a 2000' elevation.

OIL FIRED BOILERS: Boiler ratings for oil and gas/oil equipment are based on the boiler burning No.2 oil with a heat content of 140,000 BTU/gallon at the listed firing rate. All ratings are based upon a 2000' elevation.

ABOVE 2000' ELEVATION: For elevations above 2000', the listed ratings should be reduced by four percent (4%) for each one thousand feet above sea level.

TANKLESS HEATERS: The ratings for the tankless heaters are based upon a temperature rise 40° to 140° F. All ratings for heaters are for an intermittent draw with 100° F average temperature use. Ratings are listed in gallons per minute.

BOILER/BURNER CODE APPROVALS

When specified, boilers can be equipped to meet F.M., GE GAP, and CSD-1 requirements.

All cast iron boilers are constructed in accordance with the requirements of A.S.M.E. and are rated according to the standards set by I=B=R (Institute of Boiler and Radiator Manufacturers).

When operated in accordance with the manufacturers requirements, Smith guarantees the boiler will produce the printed I=B=R Ratings shown in this price book.

CSA- All commercial boiler only units have the CSA (Canadian Standards Association) approval. Please contact the Canadian sales office regarding burner approvals.

MASSACHUSETTS CODE- The 19HE/28HE/RTS-HE series boilers can be equipped to meet Mass. Code. Please specify at time of ordering.

The following are **New York City MEA** (Material and Equipment Acceptance) numbers required for installation in New York City:

19HE Series	416-99-M
28HE/RTS-HE Series	273-89-E Volume II

Smith Boilers can be equipped to meet the requirements for B.A.R. (Bureau of Air Resources) and D.E.P. (Department of Environmental Protection) for New York City.

PLEASE CONTACT THE FACTORY REGARDING AVAILABILITY OF OTHER STATE OR NATIONAL CODES.

19HE

19HE SERIES BOILER/BURNER UNITS

W/forced draft flame retention burners for pressure firing
FOR OIL, GAS & GAS/OIL APPLICATIONS
308 - 1750 MBH GROSS OUTPUT

STANDARD EQUIPMENT

ALL BOILERS

- Cast iron wet base sections tested for 80 psi W.W.P.
- Insulated metal jacket.
- Cast iron smoke hood with integral damper.
- Burner mounting plate with insulating block.
- Target Wall (3-6 section only).
- Front observation port, all sizes.
- Rear observation port, 7-12 section.
- Steel angle floor rails for ease of assembly.

- Fiber rope seal between sections
- Hy-temp hydronic port seals.
- Flue brush and handle.
- *Flame retention, forced draft burner.
Oil #2 -140,000 BTU/gal - Natural Gas or Propane Gas, or combination. Minimum natural gas inlet pressure based on standard U.L. train with dual gas valves. For propane, methane or unusually low or high gas pressure, consult factory. Maximum gas pressure standard burner is 14" W.C.

STEAM BOILERS

- A.S.M.E. side outlet safety valve (15 psi).
- Steam gauge (0 - 30 psi).
- Gauge glass and fittings.
- *Manual reset high pressure limit control L4079B.
- *Operating pressure control PA404.

WATER BOILERS

- A.S.M.E. pressure relief valve (40 psi).
- Theraltimeter.
- *Manual reset high temperature limit control L4006E.
- *Operating temperature control L4006A.

*Furnished with Boiler/Burner units only.

OPTIONAL EQUIPMENT

ALL BOILERS

- Intermediate section
for tankless heater #3641 per section **\$103**
- Heater cover plate #70343 N/C
- Tankless coils see page 28
- Controls less piping see page 29
- 1-1/4" Inspection tapping #90004
(3 per section) per section **\$86**
- 1-1/4" flush brass plugs
for inspection tappings #61566 per section **\$132**
- 1" Tap for additional LWCO #90008 **\$61**
- Barometric damper-
7" Oil #50341 (3-4 section) **\$77**
Gas & Gas/Oil #50349 **\$151**
8" Oil #50342 (5-6 section) **\$127**
Gas & Gas/Oil #50348 **\$191**

- 9" Oil #50350 (7 section) **\$128**
Gas & Gas/Oil #50351 **\$213**
- 10" Oil, Gas, Gas/Oil #50343 (8-10 section) **\$331**
- 12" Oil, Gas, Gas/Oil #50344 (11-12 section) **\$428**
- Thermo switch C-D11700A manual reset (use
w/barometric damper when Mass. Approval
Controls are used) #50762 **\$156**

Thermostatic Valves

PART NUMBER	VALVE MODEL NUMBER	PRICE	20° Δ T	40° Δ T
			BOILER MODEL NUMBER	BOILER MODEL NUMBER
13-1001	A1110	CF	N/A	19HE-3-4
13-1002	A1010	CF	N/A	19HE-5
13-1003	A1530	CF	19HE-3-4	19HE-6-8
13-1004	A2010	CF	19HE-5-7	19HE-9-12
13-1005	A2510	CF	19HE-8-10	N/A
13-1006	A3010	CF	19HE-11-12	N/A

STEAM BOILER

- 61 L.W.C.O. with piping # 70346 **\$927**
- 63 LWCO with piping #70347 **\$1,025**
- 63M LWCO with piping #70357 **\$1,032**
- 51-2 Feeder cutoff with piping #70351 **\$1,726**
- 150S Pump controller with piping #70344 **\$1,246**
- 157-S RLS Water Column with pump control
and L.W.C.O. with piping #70349 **\$1,608**
- PS801M-U-120 L.W.C.O. #50074 **\$347**

WATER BOILER

- 63 LWCO with piping #70355 **\$1,025**
- 63M LWCO with piping #70358 **\$1,032**
- 150S LWCO with piping #70353 **\$1,246**
- 751P-MT-U-120 LWCO with manual reset #50083 **\$318**
- 80 psi relief Valve 3-9 174A 3/4" #580 **\$52 add**
- 80 psi relief valve 10-12 174A 1" #581 **\$89 add**

Specify relief valve setting if other than 40 psi is desired at
the time order is placed.

B19HE

B19HE SERIES FORCED DRAFT BOILERS ONLY (LESS BURNER AND CONTROL)

B19HE Boilers only for use with approved burners
308-1750 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R RATING			I = B = R Input		I = B = R Chimney or Vent Dia.	Trade Price	Approx. Shipping Weight
			Steam		Water MBH	Oil GPH+	Gas MBH		Water or Steam	
			Sq. Ft.	MBH						
B19HE-*3	9	308	963	231	268	2.6	375	7"	\$5,826	1,275
B19HE-*4	12	421	1,317	316	369	3.6	520	7"	\$7,241	1,612
B19HE-*5	17	587	1,838	441	510	5.0	722	8"	\$8,708	1,949
B19HE-*6	22	762	2,384	572	663	6.5	938	8"	\$10,223	2,301
B19HE-*7	27	924	2,892	694	803	7.9	1,140	9"	\$11,656	2,641
B19HE-*8	32	1,087	3,405	817	945	9.3	1,342	10"	\$13,080	2,988
B19HE-*9	37	1,262	3,947	947	1,087	10.8	1,559	10"	\$14,513	3,224
B19HE-*10	42	1,424	4,505	1,081	1,238	12.2	1,761	10"	\$15,961	3,674
B19HE-*11	46	1,587	5,072	1,217	1,380	13.6	1,963	12" ⁽¹⁾	\$17,762	4,013
B19HE-*12	51	1,750	5,635	1,352	1,522	15.0	2,165	12" ⁽¹⁾	\$19,352	4,378

*Insert "S" for Steam, "W" for Water.

+Based on oil having a heat content of 140,000 BTU/gallon.

NOTE: The 19HE is furnished less burner and controls.

Boiler Model Number	CSA Listed Approved Burners								
	RIELLO			WEBSTER BURNERS*			INDUSTRIAL COMBUSTION*		
	Oil	Gas	Gas/Oil	Oil	Gas	Gas/Oil	Oil	Gas	Gas/Oil
B19HE-3	F10	Gas 400	--	--	--	--	VL13	VG 13	VLG 13
B19HE-4	F15	Gas 750	--	JB1O-03	JB1G-02	JB1C-03	VL13	VG 13	VLG 13
B19HE-5	F20	Gas 750	--	JB1O-03	JB1G-02	JB1C-03	VL13	VG 13	VLG 13
B19HE-6	RL28/2	RS28/M	RLS28	JB1O-03	JB1G-02	JB1C-03	VL13	VG 13	VLG 13
B19HE-7	RL28/2	RS28/M	RLS28	JB1O-03	JB1G-02	JB1C-03	VL13	VG 13	VLG 13
B19HE-8	RL38/2	RS38/M	RLS38	JB1O-05	JB1G-03	JB1C-05	VL13	VG 13	VLG 13
B19HE-9	RL38/2	RS38/M	RLS38	JB1O-05	JB1G-03	JB1C-07	VL 15	VG 15	VLG 15
B19HE-10	RL50/2	RS50/M	RLS50	JB1O-07	JB1G-05	JB1C-07	VL 20	VG 20	VLG 20
B19HE-11	RL50/2	RS50/M	RLS50	JB1O-07	JB1G-07	JB1C-07	VL20	VG 20	VLG 20
B19HE-12	RL50/2	RS50/M	RLS50	JB1O-07	JB1G-07	JB1C-07	VL 22	VG 22	VLG 22

* Contact your local Webster Burner and Industrial Combustion representative for pricing.

OPTIONAL ASSEMBLED & PACKAGED TRADE ADDERS

BOILER MODEL NUMBER	ASSEMBLED BLOCK		PACKAGED BOILER ⁽¹⁾ **		PACKAGED BOILER LESS BURNER ⁽¹⁾	
	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER
19HE-3	79991	\$1,372	79993	\$5,335	78950	\$3,256
19HE-4	79981	\$1,504	79972	\$5,480	78951	\$3,413
19HE-5	79982	\$1,636	79973	\$5,673	78952	\$3,597
19HE-6	79983	\$1,778	79974	\$5,870	78953	\$3,798
19HE-7	79984	\$1,909	79975	\$6,051	78954	\$3,979
19HE-8	79985	\$2,051	79976	\$6,248	78955	\$4,170
19HE-9	79986	\$2,433	79977	\$6,898	78956	\$4,837
19HE-10	79987	\$2,571	79978	\$7,111	78957	\$5,024
19HE-11	79988	\$2,703	79979	\$7,295	78958	\$5,209
19HE-12	79989	\$2,844	79980	\$7,496	78959	\$5,417

(1) When ordering float type LWCO, must order LWCO with piping. Add to trade price of unit.

**Gas train components shipped loose, to be assembled and wired in the field.

Consult Factory For Freight Charges On Assembled And Packaged Boiler Shipments

LO19HE

LO19HE LIGHT OIL BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	Net I = B = R Rating			I = B = R Burner Capacity	I = B = R Chimney or Vent Dia.	Approx. Shipping Weight
			Steam		Water MBH	Oil GPH**		Oil
			Sq. Ft.	MBH				
LO19HE-*3	9	308	963	231	268	2.6	7"	1,300
LO19HE-*4	12	421	1,317	316	369	3.6	7"	1,637
LO19HE-*5	17	587	1,838	441	510	5.0	8"	1,974
LO19HE-*6	22	762	2,384	572	663	6.5	8"	2,326
LO19HE-*7	27	924	2,892	694	803	7.9	9"	2,666
LO19HE-*8	32	1,087	3,405	817	945	9.3	10"	3,013
LO19HE-*9	37	1,262	3,947	947	1,087	10.8	10"	3,249
LO19HE-*10	42	1,424	4,505	1,081	1,238	12.2	10"	3,700
LO19HE-*11	47	1,587	5,072	1,217	1,380	13.6	12" ⁽¹⁾	4,039
LO19HE-*12	52	1,750	5,635	1,352	1,522	15.0	12" ⁽¹⁾	4,404

* Insert "S" for steam, "W" for water.

**Based on #2 oil having BTU content 140,000 BTU/Gallon.

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Mounted Control Panel	Standard Flame Safeguard ⁽¹⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
CARLIN	LO19HE-*3	201 CRD	STD	N/C	N/A	On-Off	\$1351	CCT 60200
	LO19HE-*4	301CRD	STD	N/C	N/A	On-Off	1351	CCT 60200
	LO19HE-*5	301CRD	STD	N/C	N/A	On-Off	1351	CCT 60200
	LO19HE-*6	702CRD	N/C	STD	N/A	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*7	702CRD	N/C	STD	N/A	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*8	702CRD	N/C	STD	N/A	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*9	702CRD	N/C	STD	N/A	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*10	801CRD	N/C	STD	\$99	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*11	801CRD	N/C	STD	99	Lo-Hi-Lo	1351	CCT 60200
	LO19HE-*12	801CRD	N/C	STD	99	Lo-Hi-Lo	1351	CCT 60200
BECKETT	LO19HE-*3	CF500	STD	\$160	NA	On-Off	1487*	7505C
	LO19HE-*4	CF500	STD	160	NA	On-Off	1487*	7505C
	LO19HE-*5	CF800	STD	160	NA	On-Off	1487*	7505C
	LO19HE-*6	CF1400	STD	49	\$974	Lo-Hi-Lo	1487*	7505C
	LO19HE-*7	CF1400	STD	49	974	Lo-Hi-Lo	1487*	7505C
	LO19HE-*9	CF2300	STD	N/C	757	Lo-Hi-Lo	1487*	7505C
	LO19HE-*10	CF2300	STD	N/C	757	Lo-Hi-Lo	1487*	7505C
	LO19HE-*11	CF2500A	NA	STD	N/C	Lo-Hi-Lo	1487*	7505C
	LO19HE-*12	CF2500A	NA	STD	N/C	Lo-Hi-Lo	1487*	7505C
POWERFLAME	LO19HE-*4	CR1-O	STD	154	\$432	On-Off	STD	R7284P
	LO19HE-*5	CR1-O	STD	154	432	On-Off	STD	R7284P
	LO19HE-*6	CR1-O	STD	154	432	On-Off	STD	R7284P
	LO19HE-*7	CR2-OA	\$69	STD	212	Lo-Hi-Lo	STD	R7284P
	LO19HE-*8	CR2-OA	69	STD	212	Lo-Hi-Lo	STD	R7284P
	LO19HE-*9	CR2-OA	69	STD	212	Lo-Hi-Lo	STD	R7284P
	LO19HE-*10	CR2-OA	69	STD	212	Lo-Hi-Lo	STD	R7284P
	LO19HE-*11	CR2-OA	69	STD	212	Lo-Hi-Lo	STD	R7284P
	LO19HE-*12	CR2-OB	69	STD	212	Lo-Hi-Lo	STD	R7284P

(1) For Alternate Flame Safeguards see page 31.

*Remote Panel Only

For additional burner options - see page 31

See page 30 for notes

LO19HE

LO19HE LIGHT OIL BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	CARLIN OIL			BECKETT OIL			POWERFLAME OIL		
	Burner Model Number	Motor H.P.	Trade Price Water or Steam	Burner Model Number	Motor H.P.	Trade Price Water or Steam	Burner Model Number	Motor H.P.	Trade Price Water or Steam
LO19HE-*3	201CRD	1/4	\$7,489	CF500	1/3	\$7,442	N/A	N/A	N/A
LO19HE-*4	301CRD	1/4	\$8,981	CF500	1/3	\$8,870	CR1-O	1/3	\$15,448
LO19HE-*5	301CRD	1/2	\$10,448	CF800	1/3	\$10,464	CR1-O	1/3	\$14,306
LO19HE-*6	702CRD	1/2	\$13,823	CF1400	1/2	\$14,542	CR1-O	1/2	\$16,040
LO19HE-*7	702CRD	1/2	\$15,256	CF1400	1/2	\$15,975	CR2-OA	3/4	\$18,855
LO19HE-*8	702CRD	1/2	\$16,680	N/A	N/A	N/A	CR2-OA	3/4	\$20,279
LO19HE-*9	702CRD	1/2	\$18,113	CF2300	3/4	\$19,302	CR2-OA	3/4	\$21,712
LO19HE-*10	801CRD	3/4	\$20,099	CF2300	3/4	\$20,750	CR2-OA	3/4	\$23,160
LO19HE-*11	801CRD	3/4	\$21,900	CF2500A	2	\$25,105	CR2-OA	1	\$24,961
LO19HE-*12	801CRD	3/4	\$23,490	CF2500A	2	\$26,695	CR2-OB	1-1/2	\$26,709

* Insert "S" for Steam, "W" for Water.

** Note: Price includes special refractory front plate.

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Fuel Oil Pump		Lo-Hi-Lo Firing with Controller	Modulation Firing with Controller	D.E.P. Approval (formerly B.A.R.)	ASME CSD-1 ⁽⁹⁾
			One Stage	Two Stage				
C A R L I N	LO19HE-*3	201 CRD	STD	\$70	N/A	N/A	\$470	N/A ⁽¹⁰⁾
	LO19HE-*4-5	301 CRD	STD	\$70	N/A	N/A	\$480	N/A ⁽¹⁰⁾
	LO19HE-*6-9	702CRD	N/A	STD	STD	N/A	\$504	N/A ⁽¹⁰⁾
	LO19HE-*10-12	801CRD	N/A	STD	STD	N/A	\$970	N/A ⁽¹⁰⁾
B E C K E T T	LO19HE-*3-4	CF500	N/A	STD	N/A	N/A	\$301	STD ⁽¹⁰⁾
	LO19HE-*5	CF800	N/A	STD	N/A	N/A	301	STD ⁽¹⁰⁾
	LO19HE-*6-7	CF1400	N/A	STD	STD	N/A	358	STD ⁽¹⁰⁾
	LO19HE-*9-10	CF2300	N/A	STD	STD	N/A	358	STD ⁽¹⁰⁾
	LO19HE-*11-12	CF2500A	STD	N/A	STD	N/A	358	STD ⁽¹⁰⁾
P O W E R F L A M E	LO19HE-*3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	LO19HE-*4-6	CR1-O	N/A	STD	\$1431	\$2991	\$937	\$212
	LO19HE-*7-11	CR2-OA	N/A	STD	STD	1715	937	212
	LO19HE-*12	CR2-OB	N/A	STD	STD	1831	937	212

G19HE

G19HE GAS BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	Net I = B = R Rating			I = B = R Burner Capacity	I = B = R Chimney or Vent Dia.	Approx. Shipping Weight
			Steam		Water MBH	Gas MBH		Gas
			Sq. Ft.	MBH				
G19HE-*3	9	308	963	231	268	375	7"	1,325
G19HE-*4	12	421	1,317	316	369	520	7"	1,652
G19HE-*5	17	587	1,838	441	510	722	8"	2,000
G19HE-*6	22	762	2,384	572	663	938	8"	2,351
G19HE-*7	27	924	2,892	694	803	1,140	9"	2,691
G19HE-*8	32	1,087	3,405	817	945	1,342	10"	3,038
G19HE-*9	37	1,262	3,947	947	1,087	1,559	10"	3,274
G19HE-*10	42	1,424	4,505	1,081	1,238	1,761	10"	3,725
G19HE-*11	47	1,587	5,072	1,217	1,380	1,963	12" ⁽¹⁾	4,064
G19HE-*12	52	1,750	5,635	1,352	1,522	2,165	12" ⁽¹⁾	4,429

*Insert "S" for steam, "W" for water.

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽¹⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWERFLAME	G19HE-*3-4	JR15A-10	STD	\$370	\$643	On-Off	CF	RM7897A FR
	G19HE-*5-6	JR30A-10	STD	281	550	On-Off	CF	RM7897A FR
	G19HE-*7	JR30A-12	STD	281	550	Lo-Hi-Lo	CF	RM7897A FR
	G19HE-*8-10	JR50A-15	STD	281	550	Lo-Hi-Lo	CF	RM7897A FR
	G19HE-*11	CR2-G-20A	\$65	STD	262	Lo-Hi-Lo	STD	RM7897A UV
	G19HE-*12	CR2-G-20B	\$65	STD	262	Lo-Hi-Lo	STD	RM7897A UV
BECKETT	G19HE-*3-4	CG10	STD	\$145	N/A	On-Off	\$1541*	RM7897A UV
	G19HE-*5	CG10B	STD	145	N/A	On-Off	1541*	RM7897A UV
	G19HE-*6	CG10B	STD	145	N/A	On-Off	1541*	RM7897A UV
	G19HE-*7-8	CG15	STD	155	\$417	Lo-Hi-Lo	1541*	RM7897C UV
	G19HE-*9-12	CG25	STD	162	378	Lo-Hi-Lo	1541*	RM7897C UV

(1) For Alternate Flame Safeguards see page 31.

CF - Consult Factory

*Remote Panel Only

For additional burner options - see page 31

See page 30 for notes

G19HE GAS BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	POWER FLAME GAS***				BECKETT GAS**			
	Burner Model Number	Motor H.P.	Natural Gas Minimum Inlet Pressure " W.C. (8)	Trade Price Water or Steam	Burner Model Number	Motor H.P.	Natural Gas Minimum Inlet Pressure " W.C.	Trade Price Water or Steam
G19HE-*3	JR15A-10	1/4	4.3	\$10,446	CG10	1/3	3.7	\$10,663
G19HE-*4	JR15A-10	1/4	4.4	\$11,861	CG10	1/3	3.6	\$12,078
G19HE-*5	JR30A-10	1/3	5.3	\$13,352	CG10B	1/3	3.8	\$13,618
G19HE-*6	JR30A-10	1/3	5.6	\$14,867	CG10B	1/3	5.2	\$15,133
G19HE-*7	JR30A-12	1/3	5.9	\$17,834	CG15	1/2	6.0	\$19,777
G19HE-*8	JR50A-15	1/3	6.0	\$19,589	CG15	1/2	6.1	\$21,201
G19HE-*9	JR50A-15	1/3	5.9	\$21,260	CG25	3/4	5.8	\$23,092
G19HE-*10	JR50A-15	1/2	5.3	\$23,051	CG25	3/4	5.6	\$24,540
G19HE-*11	CR2-G-20A	1	6.3	\$27,053	CG25	3/4	5.9	\$26,341
G19HE-*12	CR2-G-20B	1-1/2	4.0	\$29,379	CG25	3/4	5.8	\$27,931

*Insert "S" for Steam, "W" for Water.

**For Beckett LP gas add \$103.00 trade.

***For Powerflame LP Gas 3-10 Sec, need to upgrade to UV Flame Safeguard.

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Lo-Hi-Off	Lo-Hi-Lo Firing with Controller	Modulation Firing with Controller	Mass Code Approval (2)	ASME CSD-1 (9)
POWER FLAME	G19HE-*3	JR15A-10	N/A	N/A	N/A	\$204	\$170
	G19HE-*4	JR15A-10	\$892	\$1630	\$2347	204	170
	G19HE-*5	JR30A-10	923	1630	2520	204	170
	G19HE-*6	JR30A-10	923	1630	2520	204	170
	G19HE-*7	JR30A-12	N/A	STD	1056	968	170
	G19HE-*8	JR50A-15	N/A	STD	1074	968	170
	G19HE-*9	JR50A-15	N/A	STD	1074	968	170
	G19HE-*10	JR50A-15	N/A	STD	867	968	170
	G19HE-*11	CR2-G-20A	N/A	STD	1389	968	170
	G19HE-*12	CR2-G-20B	N/A	STD	1318	968	170
BECKETT	G19HE-*3	CG10	N/A	N/A	N/A	STD	STD
	G19HE-*4	CG10	N/A	N/A	N/A	STD	STD
	G19HE-*5	CG10B	N/A	N/A	N/A	STD	STD
	G19HE-*6	CG10B	N/A	N/A	N/A	STD	STD
	G19HE-*7	CG15	N/A	STD	\$1953	\$1023	STD
	G19HE-*8	CG15	N/A	STD	1953	1023	STD
	G19HE-*9	CG25	N/A	STD	2230	1192	STD
	G19HE-*10	CG25	N/A	STD	2230	1192	STD
	G19HE-*11	CG25	N/A	STD	2230	1192	STD
	G19HE-*12	CG25	N/A	STD	2230	1192	STD

GO19HE

GO19HE GAS/OIL BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	Net I = B = R Rating			I = B = R Burner Capacity		I = B = R Chimney or Vent Dia.	Approx. Shipping Weight
			Steam		Water MBH	Gas MBH	OIL GPH**		Gas/Oil
			Sq. Ft.	MBH					
GO19HE*-4	12	421	1,317	316	369	520	3.6	7"	1,652
GO19HE*-5	17	587	1,838	441	510	722	5.0	8"	2,000
GO19HE*-6	22	762	2,384	572	663	938	6.5	8"	2,351
GO19HE*-7	27	924	2,892	694	803	1,140	7.9	9"	2,691
GO19HE*-8	32	1,087	3,405	817	945	1,342	9.3	10"	3,038
GO19HE*-9	37	1,262	3,947	947	1,087	1,559	10.8	10"	3,274
GO19HE*-10	42	1,424	4,505	1,081	1,238	1,761	12.2	10"	3,725
GO19HE*-11	47	1,587	5,072	1,217	1,380	1,963	13.6	12" ⁽¹⁾	4,064
GO19HE*-12	52	1,750	5,635	1,352	1,522	2,165	15.0	12" ⁽¹⁾	4,429

* Insert "S" for steam, "W" for water.

**Based on #2 oil having BTU content 140,000 BTU/Gallon.

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽¹⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWER FLAME	GO19HE*-4	CR1-GO-10	STD	\$151	\$423	On-Off	STD	RM7897C UV
	GO19HE*-5	CR1-GO-10	STD	151	423	On-Off	STD	RM7897C UV
	GO19HE*-6	CR1-GO-12	STD	151	423	On-Off	STD	RM7897C UV
	GO19HE*-7	CR2-GO-15	\$67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO19HE*-8	CR2-GO-15	67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO19HE*-9	CR2-GO-15	67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO19HE*-10	CR2-GO-15	67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO19HE*-11	CR2-GO-20A	67	STD	262	Lo-Hi-Lo	STD	RM7897C UV
	GO19HE*-12	CR2-GO-20B	67	STD	207	Lo-Hi-Lo	STD	RM7897C UV

(1) For Alternate Flame Safeguards see page 31.

STANDARD EQUIPMENT

GAS/OIL ONLY

- High performance power gas/oil burner for firing natural gas or #2 fuel oil.
- Gas pilot both fuels.
- Main gas pressure regulator.
- Pilot gas pressure regulator.
- Diaphragm gas valve.
- Auxiliary solenoid gas valve.
- Manual test cock.
- Pilot solenoid valve.
- Air flow interlock (pressure switch).
- 6,000 volt ignition transformer.
- Manual changeover switch.
- Two stage fuel pump.
- Control Panel.

GO19HE

GO19HE GAS/OIL BOILER/BURNER UNIT

308 - 1750 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME GAS/OIL			
	Burner Model Number	Motor H.P.	Natural Gas Minimum Inlet Pressure " W.C. ⁽⁸⁾	Trade Price Water or Steam
GO19HE*-4	CR1-GO-10	1/3	4.1	\$17,886
GO19HE*-5	CR1-GO-10	1/3	4.3	\$16,744
GO19HE*-6	CR1-GO-12	1/2	5.4	\$18,332
GO19HE*-7	CR2-GO-15	3/4	6.2	\$22,486
GO19HE*-8	CR2-GO-15	3/4	5.3	\$24,224
GO19HE*-9	CR2-GO-15	3/4	5.7	\$25,657
GO19HE*-10	CR2-GO-15	3/4	5.3	\$27,105
GO19HE*-11	CR2-GO-20A	1	6.3	\$29,239
GO19HE*-12	CR2-GO-20B	1-1/2	4.0	\$31,211

*Insert "S" for Steam, "W" for Water.

**Note: Price includes adder for special refractory front plate.

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Lo-Hi-Off Firing	Lo-Hi-Lo Firing with Controller	Modulation Firing with Controller	Mass Code Approval ⁽²⁾	D.E.P. Approval (formally B.A.R.)	ASME CSD-1 ⁽⁹⁾
POWERFLAME	GO19HE*-4	CR1-GO-10	\$1961	\$2534	\$3589	\$392	\$937	\$358
	GO19HE*-5	CR1-GO-10	1961	2534	3589	392	937	358
	GO19HE*-6	CR1-GO-12	1961	2534	3546	392	937	358
	GO19HE*-7	CR2-GO-15	N/A	STD	1143	1151	937	358
	GO19HE*-8	CR2-GO-15	N/A	STD	1228	1151	937	358
	GO19HE*-9	CR2-GO-15	N/A	STD	1228	1151	937	358
	GO19HE*-10	CR2-GO-15	N/A	STD	1228	1151	937	358
	GO19HE*-11	CR2-GO-20A	N/A	STD	1519	1151	937	358
	GO19HE*-12	CR2-GO-20B	N/A	STD	1898	1151	937	358

RTS/HE

WATER BOILER BURNER UNITS

W/forced draft flame retention burners for pressure firing

FOR OIL, GAS & GAS/OIL APPLICATIONS

931-4622 MBH GROSS OUTPUT

STANDARD EQUIPMENT

- Cast iron wet base sections tested for 80 psi W.W.P.
- Return temperature stabilizer (RTS)
- Deluxe insulated metal jacket.
- Cast iron smoke hood with integral damper.
- Burner mounting plate with insulating block.
- Front and rear flame observation ports.
- Steel angle floor rails for ease of assembly.
- Fiber rope seal between sections.
- Heat Transfer Rods
- Stack thermometer.
- Graphite Port Connectors.
- Flue brush and handle.
- A.S.M.E. pressure relief valve (40 psi).
- Theraltimeter.
- *Flame retention, forced draft burner. Oil #2 - 140,000 BTU/gal - Natural Gas or Propane Gas, or combination. Minimum natural gas inlet pressure based on standard U.L. train with dual gas valves. For propane, methane or unusually low or high gas pressure, consult factory. Maximum gas pressure standard burner is 14" W.C.
- *Manual reset high temperature limit control L4006E.
- *Operating temperature control L4006A.

***Furnished with Boiler/Burner units only.**

OPTIONAL EQUIPMENT

- 1-1/2" Inspection tappings (3 per section) #90001 per section **\$86**
- 1-1/2" flush brass plugs for inspection tappings #61635 per section **\$78**
- Barometric damper- 10" #50343 (4-6 section) **\$331**
 - 12" #50344 (7-8 section) **\$428**
 - 14" #50345 (9-13 section) **\$548**
 - 16" #50346 (14-16 section) **\$760**
 - 18" #50347 (17-18 section) **\$1,007**
- Thermo switch C-D11700A manual reset (Use w/barometric damper when Mass. Approval Controls are used) #50762 **\$156**
- 1" tap for additional LWCO #90008..... **\$61**
- Heater intermediate sections. Add to trade of Standard section #3623 **\$103**
- Heater cover plates*
 - Blank # 70628 N/C
 - 2-1/2" tap #70629 **\$201**
- *Not furnished unless specified on order.
- Tankless coils see page 28
- Controls, less piping see page 29
- 63 L.W.C.O. w/piping #70637 **\$1,025**
- 63M L.W.C.O. w/piping #70679 **\$1,032**
- 150S L.W.C.O. w/piping (hy-test) #70651 **\$1,246**
- 751P-MT-U-120 L.W.C.O. w/manual reset #50083 **\$318**
(Note.. must be remote mounted)
- Hydrolevel 550-LSV L.W.C.O. #14-2500 **\$223**
- 80 psi relief valve
 - 4-5 174A 3/4" #580 **\$52 add**
 - 6-8 174A 1" #581 **\$98 add**
 - 9-14 174A 1-1/4" #582 **\$161 add**
 - 15-16 174A 1-1/2" #583 **\$173 add**
 - 17-18 174A 2" #584 **\$435 add**

Specify relief valve setting if other than 40 psi is desired at time order is placed. Consult factory for pricing.

- 63 w/TC-4 piping #70748* **\$1,025**
 - 63M w/TC-4 piping #70747* **\$1,032**
 - 150S w/TC-4 piping #70768* **\$1,246**
 - TC-4 valves #50073 **\$587**
- *Must order TC4 valves separately. Pricing includes LWCO and TC4 piping only.

RTS/HE-B

FORCED DRAFT WATER BOILERS ONLY (LESS BURNER AND CONTROL)

Boilers only for use with approved burners
931-4622 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Rating	I = B = R Input		I = B = R Chimney or Vent Dia.	Trade Price	Approx. Shipping Weight
			Water MBH	Oil GPH*	Gas MBH			
BRTS/HE-4	27	931	810	7.9	1,143	10"	\$13,714	3,177
BRTS/HE-5	35	1,194	1,038	10.2	1,458	10"	\$16,223	3,830
BRTS/HE-6	43	1,458	1,268	12.2	1,773	10"	\$18,842	4,493
BRTS/HE-7	51	1,722	1,497	14.4	2,088	12"	\$21,619	5,155
BRTS/HE-8	59	1,985	1,726	16.6	2,403	12"	\$24,298	5,828
BRTS/HE-9	67	2,249	1,956	18.8	2,718	14"	\$26,951	6,496
BRTS/HE-10	75	2,513	2,185	21.0	3,033	14"	\$29,748	7,196
BRTS/HE-11	83	2,776	2,414	23.0	3,348	14"	\$32,561	7,859
BRTS/HE-12	91	3,040	2,643	25.5	3,663	14"	\$35,289	8,524
BRTS/HE-13	98	3,304	2,873	27.5	3,978	14"	\$38,375	9,185
BRTS/HE-14	106	3,567	3,102	29.5	4,293	16"	\$40,805	9,849
BRTS/HE-15	114	3,831	3,331	32.0	4,608	16"	\$43,657	10,574
BRTS/HE-16	122	4,095	3,561	34.0	4,923	16"	\$46,370	11,323
BRTS/HE-17	130	4,358	3,790	36.5	5,238	18"	\$49,650	12,069
BRTS/HE-18	138	4,622	4,019	38.5	5,553	18"	\$52,263	12,815

*Based on oil having a heat content of 140,000 BTU/gallon.

NOTE: The RTS/HE-B is furnished less burner and controls.

Boiler Model Number	CSA Approved Burners					
	WEBSTER BURNERS*			INDUSTRIAL COMBUSTION*		
	Oil	Gas	Gas/Oil	Oil	Gas	Gas/Oil
RTSHE-4	JB1O-03	JB1G-02	JB1C-03	VL 13	VG 13	VLG 13
RTSHE-5	JB1O-05	JB1G-03	JB1C-05	VL 15	VG 15	VLG 15
RTSHE-6	JB1O-07	JB1G-05	JB1C-07	VL 20	VG 20	VLG 20
RTSHE-7	JB1O-07	JB1G-07	JB1C-07	VL 20	VG 20	VLG 20
RTSHE-8	JB2O-10	JB2G-07	JB2C-10	VL 25	VG 25	VLG 25
RTSHE-9	JB2O-15	JB2G-10	JB2C-10	VL 30	VG 30	VLG 30
RTSHE-10	JB2O-15	JB2G-10	JB2C-15	VL 30	VG 30	VLG 30
RTSHE-11	JB2O-15	JB2G-10	JB2C-15	VL 34	VG 34	VLG 30
RTSHE-12	JB2O-15	JB2G-15	JB2C-15	VL 40	VG 40	VLG 34
RTSHE-13	JB2O-20	JB2G-20	JB2C-20	VL 40	VG 40	VLG 40
RTSHE-14	JB2O-20	JB2G-20	JB2C-20	VL 45	VG 45	VLG 40
RTSHE-15	JB2O-20	JB2G-20	JB2C-20	VL 50	VG 50	VLG 50
RTSHE-16	JB2O-30	JB2G-30	JB2C-30	VL 50	VG 50	VLG 50
RTSHE-17	JB2O-30	JB2G-30	JB2C-30	VL 54	VG 54	VLG 54
RTSHE-18	JB2O-30	JB2G-30	JB3C-50	VL 55	VG 55	VLG 55

* Contact your local Webster Burner and Industrial Combustion representative for pricing.

OPTIONAL ASSEMBLED AND PACKAGED TRADE ADDERS

BOILER MODEL NUMBER	ASSEMBLED BLOCK		PACKAGED BOILER ⁽¹⁾ **		PACKAGED BOILER LESS BURNER ⁽¹⁾ *	
	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER
RTS/HE-4	79948	\$2,088	79911	\$6,252	78960	\$4,076
RTS/HE-5	79949	\$2,123	79912	\$6,496	78961	\$4,314
RTS/HE-6	79950	\$2,315	79913	\$6,751	78962	\$4,565
RTS/HE-7	79951	\$2,499	79914	\$6,994	78963	\$4,790
RTS/HE-8	79952	\$2,692	79915	\$7,241	78964	\$5,043
RTS/HE-9	79953	\$3,104	79916	\$7,691	78965	\$5,743
RTS/HE-10	79954	\$3,296	79917	\$8,203	78966	\$5,992
RTS/HE-11	79955	\$3,481	79918	\$8,423	78967	\$6,228
RTS/HE-12	79956	\$3,671	79919	\$8,651	78968	\$6,495
RTS/HE-13	79957	\$3,855	79920	\$9,145	78969	\$6,954
RTS/HE-14	79958	\$4,048	79921	\$9,363	78970	\$7,196
RTS/HE-15	79959	\$5,032	79933	\$9,633	78971	\$8,153
RTS/HE-16	79960	\$5,203	79934	\$10,545	78972	\$8,366
RTS/HE-17	79961	\$5,359	79935	\$10,774	78973	\$8,599
RTS/HE-18	79962	\$5,527	79936	\$11,020	78974	\$8,786

(1) When ordering float type LWCO, must order LWCO with piping. Add to trade price of unit.

**Gas train components shipped loose, to be assembled and wired in the field.

Consult Factory For Freight Charges On Assembled And Packaged Boiler Shipments

RTS/HE-LO

OIL WATER BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input Oil GPH*	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating	I = B = R Chimney or Vent Dia.	Approx. Shipping Weight
				Water MBH		
LORTS/HE-4	7.9	27	931	810	10"	3,177
LORTS/HE-5	10.2	35	1,194	1,038	10"	3,830
LORTS/HE-6	12.2	43	1,458	1,268	10"	4,493
LORTS/HE-7	14.4	51	1,722	1,497	12"	5,155
LORTS/HE-8	16.6	59	1,985	1,726	12"	5,828
LORTS/HE-9	18.8	67	2,249	1,956	14"	6,496
LORTS/HE-10	21.0	75	2,513	2,185	14"	7,196
LORTS/HE-11	23.0	83	2,776	2,414	14"	7,859
LORTS/HE-12	25.5	91	3,040	2,643	14"	8,524
LORTS/HE-13	27.5	98	3,304	2,873	14"	9,185
LORTS/HE-14	29.5	106	3,567	3,102	16"	9,849
LORTS/HE-15	32.0	114	3,831	3,331	16"	10,574
LORTS/HE-16	34.0	122	4,095	3,561	16"	11,323
LORTS/HE-17	36.5	130	4,358	3,790	18"	12,069
LORTS/HE-18	38.5	138	4,622	4,019	18"	12,815

*Based on #2 oil having a heat content of 140,000 btu/gallon.

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽¹⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
CARLIN	LORTS/HE-4-5	702CRD	STD	N/C	N/A	Lo-Hi-Lo	\$1328	CCT 60200
	LORTS/HE-6-8	801CRD	N/C	STD	\$99	Lo-Hi-Lo	1328	CCT 60200
	LORTS/HE-9	1050FFD	N/C	STD	113	Lo-Hi-Lo	1328	CCT 60200
	LORTS/HE-10	1050FFD	N/C	STD	113	Lo-Hi-Lo	1328	RM7840L
	LORTS/HE-11-13	1150FFD	N/A	STD	113	Lo-Hi-Lo	1328	RM7840L
BECKETT	LORTS/HE-4	CF1400	STD	\$53	\$974	Lo-Hi-Lo	\$1487	7505C
	LORTS/HE-5-7	CF2300	STD	N/C	768	Lo-Hi-Lo	1487	7505C
	LORTS/HE-8-9	CF2500A	NA	STD	N/C	Lo-Hi-Lo	1487	7505C
	LORTS/HE-10	CF2500	NA	STD	N/C	Lo-Hi-Lo	1487	RM7897C UV
	LORTS/HE-11-13	CF3500	NA	STD	N/C	Lo-Hi-Lo	1487	RM7897C UV
POWERFLAME	LORTS/HE-4-5	C1-O	STD	\$154	\$432	Lo-Hi-Lo	STD	R7284P
	LORTS/HE-6-7	C2-OA	\$69	STD	214	Lo-Hi-Lo	STD	R7284P
	LORTS/HE-8	C2-OB	69	STD	214	Lo-Hi-Lo	STD	R7284P
	LORTS/HE-9	C2-OB	69	STD	214	Lo-Hi-Lo	STD	R7284P
	LORTS/HE-10	C2-OB	69	STD	214	MOD	STD	RM7897A UV
	LORTS/HE-11	C3-O	166	101	STD	MOD	STD	RM7897A UV
	LORTS/HE-12-14	C3-O	166	101	STD	MOD	STD	RM7840L UV
	LORTS/HE-15-16	C3-OB	N/A	N/A	STD	MOD	STD	RM7840L UV
	LORTS/HE-17-18	C4-OA	N/A	N/A	STD	MOD	STD	RM7840L UV

(1) For Alternate Flame Safeguards see page 31.

RTS/HE-LO

OIL WATER BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME OIL			BECKETT OIL			CARLIN OIL			RIELLO OIL		
	Burner Model Number	Motor H.P.	Trade Price Water	Burner Model Number	Motor H.P.	Trade Price Water	Burner Model Number	Motor H.P.	Trade Price Water	Burner Model Number	Motor H.P.	Trade Price Water
LORTS/HE-4	C1-0	1/2	\$21,152	CF1400	1/2	\$18,053	702CRD	1/2	\$17,316	RL28/2	1/2	CF
LORTS/HE-5	C1-0	1/2	\$23,661	CF2300	3/4	\$21,002	702CRD	1/2	\$19,825	RL38/2	1/2	CF
LORTS/HE-6	C2-0A	1	\$26,318	CF2300	3/4	\$23,621	801CRD	3/4	\$22,983	RL50/2	3/4	CF
LORTS/HE-7	C2-0A	1	\$29,095	CF2300	3/4	\$26,398	801CRD	3/4	\$25,760	RL50/2	3/4	CF
LORTS/HE-8	C2-0B	1	\$31,905	CF2500A	3/4	\$31,637	801CRD	3/4	\$28,439	RL70/2	1-1/2	CF
LORTS/HE-9	C2-0B	1-1/2	\$34,558	CF2500A	3/4	\$34,290	1050FFD	1	\$32,471	RL70/2	1-1/2	CF
LORTS/HE-10	C2-0B	1-1/2	\$40,913	CF2500	2	\$39,018	1050FFD	1	\$39,251	RL100/M	2-1/2	CF
LORTS/HE-11	C3-0	2	\$43,946	CF3500	2	\$42,270	1150FFD	1-1/2	\$42,967	RL100/M	2-1/2	CF
LORTS/HE-12	C3-0	2	\$47,968	CF3500	2	\$44,998	1150FFD	1-1/2	\$45,695	RL100/M	2-1/2	CF
LORTS/HE-13	C3-0	2	\$51,054	CF3500	2	\$48,084	1150FFD	1-1/2	\$48,781	RL100/M	2-1/2	CF
LORTS/HE-14	C3-0	2	\$53,484	—	—	—	—	—	—	RL100/M	2-1/2	CF
LORTS/HE-15	C3-0B	3	\$57,129	—	—	—	—	—	—	RL130/M	3	CF
LORTS/HE-16	C3-0B	3	\$59,842	—	—	—	—	—	—	RL130/M	3	CF
LORTS/HE-17	C4-0A	3	\$63,969	—	—	—	—	—	—	RL130/M	3	CF
LORTS/HE-18	C4-0A	5	\$66,582	—	—	—	—	—	—	RL190/M	5-1/2	CF

CF - Consult factory

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Modulation Open Damper Purge	Factory Mutual (F.M.)	Mass Code RM7840L Self-check ⁽²⁾	D.E.P. Approval (formerly B.A.R.)	ASME CSD-1 ⁽⁹⁾
CARLIN	LORTS/HE-4-5	702CRD	N/A	N/A	CF	NOT REQUIRED STANDARD BURNER COMPLIES	\$504	N/A ⁽¹⁰⁾
	LORTS/HE-6-8	801CRD	N/A	N/A	CF		970	N/A ⁽¹⁰⁾
	LORTS/HE-9	1050FFD	N/A	N/A	CF		488	N/A ⁽¹⁰⁾
	LORTS/HE-10	1050FFD	N/A	N/A	CF	\$243	N/A	N/A ⁽¹⁰⁾
	LORTS/HE-11-13	1150FFD	N/A	N/A	CF	243	N/A	N/A ⁽¹⁰⁾
BECKETT	LORTS/HE-4	CF1400	N/A	N/A	STD	NOT REQUIRED STANDARD BURNER COMPLIES	\$358	STD ⁽¹⁰⁾
	LORTS/HE-5-7	CF2300	N/A	N/A	STD		358	STD ⁽¹⁰⁾
	LORTS/HE-8-9	CF2500A	N/A	N/A	STD		358	STD ⁽¹⁰⁾
	LORTS/HE-10	CF2500	N/A	N/A	STD	\$1112	358	STD ⁽¹⁰⁾
	LORTS/HE-11-13	CF3500	N/A	N/A	STD	1112	358	STD ⁽¹⁰⁾
POWERFLAME	LORTS/HE-4	C1-O	\$2256	CF	STD	\$215	\$945	\$215
	LORTS/HE-5	C1-O	2256	CF	STD	215	945	215
	LORTS/HE-6-7	C2-0A	2256	CF	STD	215	945	215
	LORTS/HE-8	C2-0B	2173	CF	STD	215	945	215
	LORTS/HE-9	C2-0B	3019	CF	STD	492	945	215
	LORTS/HE-10	C2-0B	STD	CF	\$1452	492	945	215
	LORTS/HE-11	C3-O	STD	CF	1452	492	1038	215
	LORTSHE-12-13	C3-O	N/A	STD	84	492	1038	215
	LORTS/HE-14	C3-O	N/A	STD	84	492	1038	215
	LORTS/HE-15	C3-0B	N/A	STD	84	492	1038	215
	LORTS/HE-16	C3-0B	N/A	STD	84	492	1038	215
	LORTS/HE-17-18	C4-0A	N/A	STD	84	492	1038	215

RTS/HE-G

GAS WATER BOILER/BURNER UNIT 931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input Gas MBH	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating	Vent Diameter	Approx. Shipping Weight
				Water MBH		
GRTS/HE-4	1,143	27	931	810	10"	3,177
GRTS/HE-5	1,458	35	1,194	1,038	10"	3,830
GRTS/HE-6	1,773	43	1,458	1,268	10"	4,493
GRTS/HE-7	2,088	51	1,722	1,497	12"	5,155
GRTS/HE-8	2,403	59	1,985	1,726	12"	5,828
GRTS/HE-9	2,718	67	2,249	1,956	14"	6,496
GRTS/HE-10	3,033	75	2,513	2,185	14"	7,196
GRTS/HE-11	3,348	83	2,776	2,414	14"	7,859
GRTS/HE-12	3,663	91	3,040	2,643	14"	8,524
GRTS/HE-13	3,978	98	3,304	2,873	14"	9,185
GRTS/HE-14	4,293	106	3,567	3,102	16"	9,849
GRTS/HE-15	4,608	114	3,831	3,331	16"	10,574
GRTS/HE-16	4,923	122	4,095	3,561	16"	11,323
GRTS/HE-17	5,238	130	4,358	3,790	18"	12,069
GRTS/HE-18	5,553	138	4,622	4,019	18"	12,815

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽²⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWERFLAME	GRTS/HE-4-7	J50A-15	STD	\$151	\$423	Lo-Hi-Lo	CF	RM7897A FR
	GRTS/HE-8	C2-G-20A	\$66	STD	262	Lo-Hi-Lo	STD	RM7897A UV
	GRTS/HE-9	C2-G-20B	66	STD	262	Lo-Hi-Lo	STD	RM7897C UV
	GRTS/HE-10	C2-G-20B	66	STD	262	MOD	STD	RM7897C UV
	GRTS/HE-11	C3-G-20	66	N/C	STD	MOD	STD	RM7897C UV
	GRTS/HE-12-14	C3-G-25	66	N/C	STD	MOD	STD	RM7840L
	GRTS/HE-15-16	C3-G-25B	N/A	N/A	STD	MOD	STD	RM7840L
	GRTS/HE-17-18	C4-G-25	N/A	N/A	STD	MOD	STD	RM7840L
BECKETT	GRTSHE-4	CG15	STD	\$170	\$416	Lo-Hi-Lo	\$1541	RM7897C UV
	GRTSHE-5-8	CG25	STD	69	379	Lo-Hi-Lo	1541	RM7897C UV
	GRTSHE-9-14	CG50	N/A	STD	509	Lo-Hi-Lo	1541	RM7897C UV

(2) For Alternate Flame Safeguards see page 31.

CF - Consult factory

For additional burner options - see page 31

See page 30 for notes

RTS/HE-G

GAS WATER BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME GAS**				RIELLO GAS			BECKETT GAS*			
	Burner Model Number	Motor H.P.	Nat. Gas Min. Inlet Press. " W.C. (8)	Trade Price Water	Burner Model Number	Motor H.P.	Trade Price Water	Burner Model Number	Motor H.P.	Nat. Gas Min. Inlet Press. " W.C.	Trade Price Water
GRTS/HE-4	J50A-15	1/3	5.0	\$21,661	RS28/M	1/2	CF	CG15	1/2	6.5	\$21,835
GRTS/HE-5	J50A-15	1/2	5.7	\$24,170	RS38/M	1/2	CF	CG25	3/4	4.4	\$24,801
GRTS/HE-6	J50A-15	1/2	6.6	\$26,789	RS50/M	3/4	CF	CG25	3/4	5.1	\$27,420
GRTS/HE-7	J50A-15	1/2	9.2	\$29,712	RS50/M	3/4	CF	CG25	3/4	5.7	\$30,221
GRTS/HE-8	C2-G-20A	3/4	6.3	\$33,998	RS70/M	1-1/2	CF	CG25	3/4	6.1	\$32,953
GRTS/HE-9	C2-G-20B	1	5.6	\$36,967	RS70/M	1-1/2	CF	CG50	2	4.3	\$36,892
GRTS/HE-10	C2-G-20B	1	7.4	\$40,943	RS100/M	2-1/2	CF	CG50	2	5.6	\$41,378
GRTS/HE-11	C3-G-20	1-1/2	6.8	\$44,034	RS100/M	2-1/2	CF	CG50	2	5.9	\$44,191
GRTS/HE-12	C3-G-25	1-1/2	7.7	\$48,192	RS100/M	2-1/2	CF	CG50	2	6.6	\$46,919
GRTS/HE-13	C3-G-25	1-1/2	7.2	\$52,084	RS100/M	2-1/2	CF	CG50	2	5.8	\$51,794
GRTS/HE-14	C3-G-25	1-1/2	8.3	\$54,514	RS100/M	2-1/2	CF	CG50	2	6.7	\$54,224
GRTS/HE-15	C3-G-25B	3	7.8	\$57,484	RS130/M	3	CF	N/A	N/A	N/A	N/A
GRTS/HE-16	C3-G-25B	3	8.8	\$60,404	RS130/M	3	CF	N/A	N/A	N/A	N/A
GRTS/HE-17	C4-G-25	3	6.8	\$65,074	RS130/M	3	CF	N/A	N/A	N/A	N/A
GRTS/HE-18	C4-G-25	3	7.4	\$67,687	RS190/M	5-1/2	CF	N/A	N/A	N/A	N/A

*For Beckett LP gas add \$103.00 trade 4-8 sec, \$258 9-14 sec.

**For Powerflame LP Gas 4-7 sec, need to upgrade to UV Flame Safeguard.

CF - Consult factory

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Mod Firing with Controller	Mod Open Damper Purge	Factory Mutual (FM)	Mass Code Approval ⁽²⁾	ASME CSD-1 ⁽⁹⁾
POWERFLAME	GRTS/HE-4-5	J50A-15	\$1047	CF	STD	\$718	\$170
	GRTS/HE-6	J50A-15	1141	CF	STD	718	170
	GRTS/HE-7	J50A-15	1641	CF	STD	718	170
	GRTS/HE-8	C2-G-20A	1362	CF	STD	762	170
	GRTS/HE-9	C2-G-20B	1426	CF	\$106	511	170
	GRTS/HE-10	C2-G-20B	STD	CF	1701	260	170
	GRTS/HE-11	C3-G-20	STD	CF	1842	260	170
	GRTS/HE-12	C3-G-25	N/A	STD	445	260	170
	GRTS/HE-13-14	C3-G-25	N/A	STD	445	260	170
	GRTS/HE-15-16	C3-G-25B	N/A	STD	445	260	170
	GRTS/HE-17-18	C4-G-25	N/A	STD	463	848	175

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Mass Code Approval ⁽²⁾	ASME CSD-1 ⁽⁹⁾
BECKETT	GRTSHE-4	CG15	\$1953	\$1014	STD
	GRTSHE-5-8	CG25	2231	1181	STD
	GRTSHE-9-12	CG50	1297	STD	STD
	GRTSHE-13-14	CG50	1588	STD	STD

For additional burner options - see page 31

See page 30 for notes

RTS/HE-GO

GAS/OIL WATER BOILER/BURNER UNIT 931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input		Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating	Vent Diameter	Approx. Shipping Weight
	Oil GPH*	Gas MBH			Water MBH		
GORTS/HE-4	7.9	1,143	27	931	810	10"	3,177
GORTS/HE-5	10.2	1,458	35	1,194	1,038	10"	3,830
GORTS/HE-6	12.2	1,773	43	1,458	1,268	10"	4,493
GORTS/HE-7	14.4	2,088	51	1,722	1,497	12"	5,155
GORTS/HE-8	16.6	2,403	59	1,985	1,726	12"	5,828
GORTS/HE-9	18.8	2,718	67	2,249	1,956	14"	6,496
GORTS/HE-10	21.0	3,033	75	2,513	2,185	14"	7,196
GORTS/HE-11	23.0	3,348	83	2,776	2,414	14"	7,859
GORTS/HE-12	25.5	3,663	91	3,040	2,643	14"	8,524
GORTS/HE-13	27.5	3,978	98	3,304	2,873	14"	9,185
GORTS/HE-14	29.5	4,293	106	3,567	3,102	16"	9,849
GORTS/HE-15	32.0	4,608	114	3,831	3,331	16"	10,574
GORTS/HE-16	34.0	4,923	122	4,095	3,561	16"	11,323
GORTS/HE-17	36.5	5,238	130	4,358	3,790	18"	12,069
GORTS/HE-18	38.5	5,553	138	4,622	4,019	18"	12,815

*Based on #2 oil having BTU content 140,000 BTU/gallon

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽²⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWERFLAME	GORTS/HE-4	C1-GO-12	STD	\$151	\$423	Lo-Hi-Lo	STD	RM7897C UV
	GORTS/HE-5	C1-GO-12	STD	151	423	Lo-Hi-Lo	STD	RM7897C UV
	GORTS/HE-6-7	C2-GO-15	\$67	STD	207	Lo-Hi-Lo	STD	RM7897C UV
	GORTS/HE-8	C2-GO-20A	67	STD	262	Lo-Hi-Lo	STD	RM7897C UV
	GORTS/HE-9	C2-GO-20B	67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GORTS/HE-10	C2-GO-20B	67	STD	209	MOD	STD	RM7897C UV
	GORTS/HE-11	C3-GO-20	164	101	STD	MOD	STD	RM7897C UV
	GORTS/HE-12-14	C3-GO-25	164	101	STD	MOD	STD	RM7840L UV
	GORTS/HE-15-16	C3-GO-25B	N/A	N/A	STD	MOD	STD	RM7840L UV
	GORTS/HE-17-18	C4-GO-25	N/A	N/A	STD	MOD	STD	RM7840L UV

(2) For Alternate Flame Safeguards see page 31.

For additional burner options - see page 31

See page 30 for notes

RTS/HE-GO

GAS/OIL WATER BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME GAS/OIL				RIELLO GAS/OIL		
	Burner Model Number	Motor H.P.	Nat. Gas Min. Inlet Press. " W.C. ⁽⁶⁾	Trade Price Water	Burner Model Number	Motor H.P.	Trade Price Water
GORTS/HE-4	C1-GO-12	1/2	5.0	\$24,778	RLS28	1/2	CF
GORTS/HE-5	C1-GO-12	1/2	6.6	\$27,287	RLS38	1/2	CF
GORTS/HE-6	C2-GO-15	1	6.5	\$30,297	RLS50	3/4	CF
GORTS/HE-7	C2-GO-15	1	8.7	\$33,074	RLS50	3/4	CF
GORTS/HE-8	C2-GO-20A	1	6.3	\$36,244	RLS70	1-1/2	CF
GORTS/HE-9	C2-GO-20B	1-1/2	5.6	\$39,212	RLS70	1-1/2	CF
GORTS/HE-10	C2-GO-20B	1-1/2	7.4	\$43,649	RLS100	2-1/2	CF
GORTS/HE-11	C3-GO-20	2	6.8	\$47,186	RLS100	2-1/2	CF
GORTS/HE-12	C3-GO-25	2	7.7	\$51,099	RLS100	2-1/2	CF
GORTS/HE-13	C3-GO-25	2	7.2	\$54,991	RLS100	2-1/2	CF
GORTS/HE-14	C3-GO-25	2	8.3	\$57,421	RLS100	2-1/2	CF
GORTS/HE-15	C3-GO-25B	3	7.8	\$61,444	RLS130	3	CF
GORTS/HE-16	C3-GO-25B	3	8.8	\$64,359	RLS130	3	CF
GORTS/HE-17	C4-GO-25	3	6.8	\$69,139	RLS130	3	CF
GORTS/HE-18	C4-GO-25	5	7.4	\$71,752	N/A	N/A	N/A

CF - Consult factory

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Modulation Open Damper Purge	Factory Mutual (F.M.)	Mass Code Approval ⁽²⁾	D.E.P. Approval (formerly B.A.R.)	ASME CSD-1 ⁽⁸⁾
POWERFLAME	GORTSHE-4	C1-GO-12	\$1312	CF	STD	\$935	\$937	\$363
	GORTSHE-5	C1-GO-12	1312	CF	STD	935	937	363
	GORTSHE-6-7	C2-GO-15	1652	CF	STD	935	937	358
	GORTSHE-8	C2-GO-20A	1498	CF	STD	956	937	358
	GORTSHE-9	C2-GO-20B	2376	CF	\$125	704	937	358
	GORTSHE-10	C2-GO-20B	STD	CF	1871	733	937	358
	GORTSHE-11	C3-GO-20	STD	CF	1624	733	1038	358
	GORTSHE-12	C3-GO-25	N/A	STD	262	733	1038	358
	GORTSHE-13	C3-GO-25	N/A	STD	262	733	1038	368
	GORTSHE-14	C3-GO-25	N/A	STD	262	733	1038	368
	GORTSHE-15	C3-GO-25B	N/A	STD	457	733	1038	368
	GORTSHE-16	C3-GO-25B	N/A	STD	273	733	1038	368
	GORTSHE-17	C4-GO-25	N/A	STD	204	1321	1038	368
	GORTSHE-18	C4-GO-25	N/A	STD	172	1321	1038	368

For additional burner options - see page 31

See page 30 for notes

28HE

STEAM BOILER BURNER UNITS

W/forced draft flame retention burners for pressure firing

FOR OIL, GAS & GAS/OIL APPLICATIONS

931-4622 MBH GROSS OUTPUT

STANDARD EQUIPMENT

- Cast iron wet base sections tested for 15 psi S.W.P.
 - Deluxe insulated metal jacket.
 - Cast iron smoke hood with integral damper.
 - Burner mounting plate with insulating block.
 - Front and rear flame observation ports.
 - Steel angle floor rails for ease of assembly.
 - Fiber rope seal between sections.
 - Heat Transfer Rods
 - Stack thermometer.
 - Graphite Port Connectors.
 - Flue brush and handle.
 - 5" Blank flange (for front & rear opening).
 - A.S.M.E. side outlet safety valve (15 psi).
 - Steam gauge (0-30 psi).
 - Gauge glass and fittings.
 - *Flame retention, forced draft burner. Oil #2 - 140,000 BTU/gal - Natural Gas or Propane Gas, or combination. Minimum natural gas inlet pressure based on standard U.L. train with dual gas valves. For propane, methane or unusually low or high gas pressure, consult factory. Maximum gas pressure standard burner is 14" W.C.
 - *Manual reset high pressure limit control L4079.
 - *Operating pressure control PA404.
- *Furnished with Boiler/Burner units only.**

OPTIONAL EQUIPMENT

- 1-1/2" Inspection tappings (3 per section) #90001 per section **\$86**
 - 1-1/2" flush brass plugs for inspection tappings #61635 per section **\$78**
 - Barometric damper- 10" #50343 (4-6 section) **\$331**
 - 12" #50344 (7-8 section) **\$428**
 - 14" #50345 (9-13 section) **\$548**
 - 16" #50346 (14-16 section) **\$760**
 - 18" #50347 (17-18 section) **\$1,007**
 - Thermo switch C-D11700A manual reset (Use w/barometric damper when Mass. Approval Controls are used) #50762 **\$156**
 - 1" tap for additional LWCO #90008 **\$61**
 - Heater intermediate sections. Add to trade of Standard section #3623 **\$103**
 - Heater cover plates*
 - Blank # 70628 N/C
 - 2-1/2" tap #70629 **\$201**
 - Tankless coils see page 28
 - Controls, less piping see page 29
 - 61 L.W.C.O. w/piping #70674 **\$927**
 - 63 L.W.C.O. w/piping #70678 **\$1,025**
 - 63M L.W.C.O. w/piping #70636 **\$1,032**
 - 150S pump controller w/piping #70680 **\$1,246**
 - 51-2 feeder cut-off comb. w/piping #70676 **\$1,726**
 - 157-S-RLS(MD) water column pump control & L.W.C.O. w/piping #70677 **\$1,608**
 - PS801M-U-120 L.W.C.O. #50074 **\$347**
 - Old style screw pipe yokes
 - #70655 (4-5 section) **\$1,812 add**
 - #70653 (6-9 section) **\$2,167 add**
 - #70654 (10-18 section) **\$2,736 add**
- *Not furnished unless specified on order.

B28HE

STEAM FORCED DRAFT BOILERS ONLY (LESS BURNER AND CONTROL)

B28HE Boilers only for use with approved burners
931-4622 MBH GROSS OUTPUT

Boiler Model Number	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Rating		I = B = R Input		I = B = R Chimney or Vent Dia.	Trade Price	Approx. Shipping Weight
			Steam		Oil GPH*	Gas MBH			
			Sq. Ft.	MBH					
B28HE-4	27	931	2,908	698	7.9	1,143	10"	\$13,660	3,177
B28HE-5	35	1,194	3,733	896	10.2	1,458	10"	\$16,025	3,830
B28HE-6	43	1,458	4,625	1,110	12.2	1,773	10"	\$18,697	4,493
B28HE-7	51	1,722	5,542	1,330	14.4	2,088	12"	\$21,229	5,155
B28HE-8	59	1,985	6,421	1,541	16.6	2,403	12"	\$23,970	5,828
B28HE-9	67	2,249	7,275	1,746	18.8	2,718	14"	\$26,548	6,496
B28HE-10	75	2,513	8,129	1,951	21.0	3,033	14"	\$29,215	7,196
B28HE-11	83	2,776	8,979	2,155	23.0	3,348	14"	\$31,795	7,859
B28HE-12	91	3,040	9,833	2,360	25.5	3,663	14"	\$34,428	8,524
B28HE-13	98	3,304	10,688	2,565	27.5	3,978	14"	\$37,597	9,185
B28HE-14	106	3,567	11,538	2,769	29.5	4,293	16"	\$39,957	9,849
B28HE-15	114	3,831	12,392	2,974	32.0	4,608	16"	\$42,662	10,574
B28HE-16	122	4,095	13,246	3,179	34.0	4,923	16"	\$45,245	11,323
B28HE-17	130	4,358	14,100	3,384	36.5	5,238	18"	\$48,455	12,069
B28HE-18	138	4,622	14,954	3,589	38.5	5,553	18"	\$51,184	12,815

*Based on oil having a heat content of 140,000 BTU/gallon.

NOTE: The B28HE is furnished less burner and controls.

Boiler Model Number	CSA Approved Burners					
	WEBSTER BURNERS*			INDUSTRIAL COMBUSTION*		
	Oil	Gas	Gas/Oil	Oil	Gas	Gas/Oil
28HE-4	JB1O-03	JB1G-02	JB1C-03	VL 13	VG 13	VLG 13
28HE-5	JB1O-05	JB1G-03	JB1C-05	VL 15	VG 15	VLG 15
28HE-6	JB1O-07	JB1G-05	JB1C-07	VL 20	VG 20	VLG 20
28HE-7	JB1O-07	JB1G-07	JB1C-07	VL 20	VG 20	VLG 20
28HE-8	JB2O-10	JB2G-07	JB2C-10	VL 25	VG 25	VLG 25
28HE-9	JB2O-15	JB2G-10	JB2C-10	VL 30	VG 30	VLG 30
28HE-10	JB2O-15	JB2G-10	JB2C-15	VL 30	VG 30	VLG 30
28HE-11	JB2O-15	JB2G-10	JB2C-15	VL 34	VG 34	VLG 30
28HE-12	JB2O-15	JB2G-15	JB2C-15	VL 40	VG 40	VLG 34
28HE-13	JB2O-20	JB2G-20	JB2C-20	VL 40	VG 40	VLG 40
28HE-14	JB2O-20	JB2G-20	JB2C-20	VL 45	VG 45	VLG 40
28HE-15	JB2O-20	JB2G-20	JB2C-20	VL 50	VG 50	VLG 50
28HE-16	JB2O-30	JB2G-30	JB2C-30	VL 50	VG 50	VLG 50
28HE-17	JB2O-30	JB2G-30	JB2C-30	VL 54	VG 54	VLG 54
28HE-18	JB2O-30	JB2G-30	JB3C-50	VL 55	VG 55	VLG 55

* Contact your local Webster Burner and Industrial Combustion representative for pricing.

OPTIONAL ASSEMBLED AND PACKAGED TRADE ADDERS

BOILER MODEL NUMBER	ASSEMBLED BLOCK		PACKAGED BOILER ^{(1)**}		PACKAGED BOILER LESS BURNER ⁽¹⁾	
	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER	PART NUMBER	TRADE ADDER
28HE-4	79948	\$2,088	79911	\$6,252	78960	\$4,076
28HE-5	79949	\$2,123	79912	\$6,496	78961	\$4,314
28HE-6	79950	\$2,315	79913	\$6,751	78962	\$4,565
28HE-7	79951	\$2,499	79914	\$6,994	78963	\$4,790
28HE-8	79952	\$2,692	79915	\$7,241	78964	\$5,043
28HE-9	79953	\$3,104	79916	\$7,691	78965	\$5,743
28HE-10	79954	\$3,296	79917	\$8,203	78966	\$5,992
28HE-11	79955	\$3,481	79918	\$8,423	78967	\$6,228
28HE-12	79956	\$3,671	79919	\$8,651	78968	\$6,495
28HE-13	79957	\$3,855	79920	\$9,145	78969	\$6,954
28HE-14	79958	\$4,048	79921	\$9,363	78970	\$7,196
28HE-15	79959	\$5,032	79933	\$9,633	78971	\$8,153
28HE-16	79960	\$5,203	79934	\$10,545	78972	\$8,366
28HE-17	79961	\$5,359	79935	\$10,774	78973	\$8,599
28HE-18	79962	\$5,527	79936	\$11,020	78974	\$8,786

(1) When ordering float type LWCO, must order LWCO with piping. Add to trade price of unit.

**Gas train components shipped loose, to be assembled and wired in the field.

LO28HE

OIL STEAM BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input Oil GPH*	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating		I = B = R Chimney or Vent Dia.	Approx. Shipping Weight
				Steam			
				Sq. Ft.	MBH		
LO28HE-4	7.9	27	931	2,908	698	10"	3,177
LO28HE-5	10.2	35	1,194	3,733	896	10"	3,830
LO28HE-6	12.2	43	1,458	4,625	1,110	10"	4,493
LO28HE-7	14.4	51	1,722	5,542	1,330	12"	5,155
LO28HE-8	16.6	59	1,985	6,421	1,541	12"	5,828
LO28HE-9	18.8	67	2,249	7,275	1,746	14"	6,496
LO28HE-10	21.0	75	2,513	8,129	1,951	14"	7,196
LO28HE-11	23.0	83	2,776	8,979	2,155	14"	7,859
LO28HE-12	25.5	91	3,040	9,833	2,360	14"	8,524
LO28HE-13	27.5	98	3,304	10,688	2,565	14"	9,185
LO28HE-14	29.5	106	3,567	11,538	2,769	16"	9,849
LO28HE-15	32.0	114	3,831	12,392	2,974	16"	10,574
LO28HE-16	34.0	122	4,095	13,246	3,179	16"	11,323
LO28HE-17	36.5	130	4,358	14,100	3,384	18"	12,069
LO28HE-18	38.5	138	4,622	14,954	3,589	18"	12,815

*Based on #2 oil having a heat content of 140,000 btu/gallon.

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽¹⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
C A R L I N	LO28HE-4-5	702CRD	STD	N/C	N/A	Lo-Hi-Lo	\$1328	CCT 60200
	LO28HE-6-8	801CRD	N/C	STD	\$99	Lo-Hi-Lo	1328	CCT 60200
	LO28HE-9	1050FFD	N/C	STD	113	Lo-Hi-Lo	1328	CCT 60200
	LO28HE-10	1050FFD	N/C	STD	113	Lo-Hi-Lo	1328	RM7840L
	LO28HE-11-13	1150FFD	N/A	STD	113	Lo-Hi-Lo	1328	RM7840L
B E C K E T T	LO28HE-4	CF1400	STD	\$53	\$974	Lo-Hi-Lo	\$1487	7505C
	LO28HE-5-7	CF2300	STD	N/C	768	Lo-Hi-Lo	1487	7505C
	LO28HE-8-9	CF2500A	NA	STD	N/C	Lo-Hi-Lo	1487	7505C
	LO28HE-10	CF2500	NA	STD	N/C	Lo-Hi-Lo	1487	RM7897C
	LO28HE-11-13	CF3500	NA	STD	N/C	Lo-Hi-Lo	1487	RM7897C
P O W E R F L A M E	LO28HE-4-5	C1-O	STD	\$154	\$432	Lo-Hi-Lo	STD	R7284P
	LO28HE-6-7	C2-OA	\$69	STD	214	Lo-Hi-Lo	STD	R7284P
	LO28HE-8	C2-O	69	STD	214	Lo-Hi-Lo	STD	R7284P
	LO28HE-9	C2-OB	69	STD	214	Lo-Hi-Lo	STD	R7284P
	LO28HE-10	C2-OB	69	STD	214	MOD	STD	RM7897A UV
	LO28HE-11	C3-O	166	101	STD	MOD	STD	RM7897A UV
	LO28HE-12-14	C3-O	166	101	STD	MOD	STD	RM7840L UV
	LO28HE-15-16	C3-OB	N/A	N/A	STD	MOD	STD	RM7840L UV
	LO28HE-17-18	C4-OA	N/A	N/A	STD	MOD	STD	RM7840L UV

(1) For Alternate Flame Safeguards see page 31.

LO28HE

OIL STEAM BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME OIL			BECKETT OIL			CARLIN OIL			RIELLO OIL		
	Burner Model Number	Motor H.P.	Trade Price	Burner Model Number	Motor H.P.	Trade Price	Burner Model Number	Motor H.P.	Trade Price	Burner Model Number	Motor H.P.	Trade Price
LO28HE-4	C1-0	1/2	\$21,098	CF1400	1/2	\$18,001	702CRD	1/2	\$17,262	RL28/2	1/2	CF
LO28HE-5	C1-0	1/2	\$23,463	CF2300	3/4	\$20,806	702CRD	1/2	\$19,627	RL38/2	1/2	CF
LO28HE-6	C2-0A	1	\$26,173	CF2300	3/4	\$23,478	801CRD	3/4	\$22,838	RL50/2	3/4	CF
LO28HE-7	C2-0A	1	\$28,705	CF2300	3/4	\$26,010	801CRD	3/4	\$25,370	RL50/2	3/4	CF
LO28HE-8	C2-0B	1	\$31,577	CF2500A	3/4	\$31,313	801CRD	3/4	\$28,111	RL70/2	1-1/2	CF
LO28HE-9	C2-0B	1-1/2	\$34,155	CF2500A	3/4	\$33,891	1050FFD	1	\$32,068	RL70/2	1-1/2	CF
LO28HE-10	C2-0B	1-1/2	\$40,380	CF2500	2	\$38,485	1050FFD	1	\$38,718	RL100/M	2-1/2	CF
LO28HE-11	C3-0	2	\$43,180	CF3500	2	\$41,504	1150FFD	1-1/2	\$42,201	RL100/M	2-1/2	CF
LO28HE-12	C3-0	2	\$47,107	CF3500	2	\$44,137	1150FFD	1-1/2	\$44,834	RL100/M	2-1/2	CF
LO28HE-13	C3-0	2	\$50,276	CF3500	2	\$47,306	1150FFD	1-1/2	\$48,003	RL100/M	2-1/2	CF
LO28HE-14	C3-0	2	\$52,636	—	—	—	—	—	—	RL100/M	2-1/2	CF
LO28HE-15	C3-0B	3	\$56,134	—	—	—	—	—	—	RL130/M	3	CF
LO28HE-16	C3-0B	3	\$58,717	—	—	—	—	—	—	RL130/M	3	CF
LO28HE-17	C4-0A	3	\$62,774	—	—	—	—	—	—	RL130/M	3	CF
LO28HE-18	C4-0A	5	\$65,503	—	—	—	—	—	—	RL190/M	5-1/2	CF

CF - Consult factory

OPTIONAL OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Modulation Open Damper Purge	Factory Mutual (F.M.)	Mass Code RM7840L Self-check ⁽²⁾	D.E.P. Approval (formerly B.A.R.)	ASME CSD-1 ⁽⁹⁾
CARLIN	LO28HE-4-5	702CRD	N/A	N/A	CF	NOT REQUIRED STANDARD BURNER COMPLIES	\$504	N/A ⁽¹⁰⁾
	LO28HE-6-8	801CRD	N/A	N/A	CF		970	N/A ⁽¹⁰⁾
	LO28HE-9	1050FFD	N/A	N/A	CF		488	N/A ⁽¹⁰⁾
	LO28HE-10	1050FFD	N/A	N/A	CF	\$243	N/A	N/A ⁽¹⁰⁾
	LO28HE-11-13	1150FFD	N/A	N/A	CF	243	N/A	N/A ⁽¹⁰⁾
BECKETT	LO28HE-4	CF1400	N/A	N/A	STD	NOT REQUIRED STANDARD BURNER COMPLIES	\$358	STD ⁽¹⁰⁾
	LO28HE-5-7	CF2300	N/A	N/A	STD		358	STD ⁽¹⁰⁾
	LO28HE-8-9	CF2500A	N/A	N/A	STD		358	STD ⁽¹⁰⁾
	LO28HE-10	CF2500	N/A	N/A	STD	\$1112	358	STD ⁽¹⁰⁾
	LO28HE-11-13	CF3500	N/A	N/A	STD	1112	358	STD ⁽¹⁰⁾
POWERFLAME	LO28HE-4	C1-O	\$2256	CF	STD	\$215	\$945	\$215
	LO28HE-5	C1-O	2256	CF	STD	215	945	215
	LO28HE-6-7	C2-0A	2256	CF	STD	215	945	215
	LO28HE-8	C2-0B	2173	CF	STD	215	945	215
	LO28HE-9	C2-0B	3013	CF	STD	492	945	215
	LO28HE-10	C2-0B	STD	CF	\$1452	492	945	215
	LO28HE-11	C3-O	STD	CF	1452	492	1038	215
	LO28HE-12-13	C3-O	N/A	STD	82	492	1038	215
	LO28HE-14	C3-O	N/A	STD	82	492	1038	215
	LO28HE-15	C3-0B	N/A	STD	82	492	1038	215
	LO28HE-16	C3-0B	N/A	STD	82	492	1038	215
	LO28HE-17-18	C4-0A	N/A	STD	82	492	1038	215

See page 30 for notes

G28HE

GAS STEAM BOILER/BURNER UNIT 931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input Gas MBH	Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating		Vent Diameter	Approx. Shipping Weight
				Steam			
				Sq. Ft.	MBH		
G28HE-4	1,143	27	931	2,908	698	10"	3,177
G28HE-5	1,458	35	1,194	3,733	896	10"	3,830
G28HE-6	1,773	43	1,458	4,625	1,110	10"	4,493
G28HE-7	2,088	51	1,722	5,542	1,330	12"	5,155
G28HE-8	2,403	59	1,985	6,421	1,541	12"	5,828
G28HE-9	2,718	67	2,249	7,275	1,746	14"	6,496
G28HE-10	3,033	75	2,513	8,129	1,951	14"	7,196
G28HE-11	3,348	83	2,776	8,979	2,155	14"	7,859
G28HE-12	3,663	91	3,040	9,833	2,360	14"	8,524
G28HE-13	3,978	98	3,304	10,688	2,565	14"	9,185
G28HE-14	4,293	106	3,567	11,538	2,769	16"	9,849
G28HE-15	4,608	114	3,831	12,392	2,974	16"	10,574
G28HE-16	4,923	122	4,095	13,246	3,179	16"	11,323
G28HE-17	5,238	130	4,358	14,100	3,384	18"	12,069
G28HE-18	5,553	138	4,622	14,954	3,589	18"	12,815

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽²⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWER FLAME	G28HE-4-7	J50A-15	STD	\$151	\$423	Lo-Hi-Lo	CF	RM7897A FR
	G28HE-8	C2-G-20A	\$66	STD	262	Lo-Hi-Lo	STD	RM7897A UV
	G28HE-9	C2-G-20B	66	STD	262	Lo-Hi-Lo	STD	RM7897C UV
	G28HE-10	C2-G-20B	66	STD	262	MOD	STD	RM7897C UV
	G28HE-11	C3-G-20	66	N/C	STD	MOD	STD	RM7897C UV
	G28HE-12-14	C3-G-25	66	N/C	STD	MOD	STD	RM7840L
	G28HE-15-16	C3-G-25B	N/A	N/A	STD	MOD	STD	RM7840L
	G28HE-17-18	C4-G-25	N/A	N/A	STD	MOD	STD	RM7840L
BURNER KIT	G28HE-4	CG15	STD	\$170	\$416	Lo-Hi-Lo	\$1541	RM7897C UV
	G28HE-5-8	CG25	STD	69	379	Lo-Hi-Lo	1541	RM7897C UV
	G28HE-9-14	CG50	N/A	STD	509	Lo-Hi-Lo	1541	RM7897C UV

(2) For Alternate Flame Safeguards see page 31.

CF - Consult factory

For additional burner options - see page 31

See page 30 for notes

GAS STEAM BOILER/BURNER UNIT

931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME GAS**				RIELLO GAS			BECKETT GAS*			
	Burner Model Number	Motor H.P.	Nat. Gas Min. Inlet Press. * W.C. (6)	Trade Price	Burner Model Number	Motor H.P.	Trade Price	Burner Model Number	Motor H.P.	Nat. Gas Min. Inlet Press. * W.C. (6)	Trade Price
G28HE-4	J50A-15	1/3	5.0	\$21,607	RS28/M	1/2	CF	CG15	1/2	6.5	\$21,781
G28HE-5	J50A-15	1/2	5.7	\$23,972	RS38/M	1/2	CF	CG25	3/4	4.4	\$24,603
G28HE-6	J50A-15	1/2	6.6	\$26,644	RS50/M	3/4	CF	CG25	3/4	5.1	\$27,275
G28HE-7	J50A-15	1/2	9.2	\$29,322	RS50/M	3/4	CF	CG25	3/4	5.7	\$29,831
G28HE-8	C2-G-20A	3/4	6.3	\$33,670	RS70/M	1-1/2	CF	CG25	3/4	6.1	\$32,625
G28HE-9	C2-G-20B	1	5.6	\$36,564	RS70/M	1-1/2	CF	CG50	2	4.3	\$36,489
G28HE-10	C2-G-20B	1	7.4	\$40,410	RS100/M	2-1/2	CF	CG50	2	5.6	\$40,845
G28HE-11	C3-G-20	1-1/2	6.8	\$43,268	RS100/M	2-1/2	CF	CG50	2	5.9	\$43,425
G28HE-12	C3-G-25	1-1/2	7.7	\$47,331	RS100/M	2-1/2	CF	CG50	2	6.6	\$46,058
G28HE-13	C3-G-25	1-1/2	7.2	\$51,306	RS100/M	2-1/2	CF	CG50	2	5.8	\$51,016
G28HE-14	C3-G-25	1-1/2	8.3	\$53,666	RS100/M	2-1/2	CF	CG50	2	6.7	\$53,376
G28HE-15	C3-G-25B	3	7.8	\$56,489	RS130/M	3	CF	—	—	—	—
G28HE-16	C3-G-25B	3	8.8	\$59,279	RS130/M	3	CF	—	—	—	—
G28HE-17	C4-G-25	3	6.8	\$63,879	RS130/M	3	CF	—	—	—	—
G28HE-18	C4-G-25	3	7.4	\$66,608	RS190/M	5-1/2	CF	—	—	—	—

*For Beckett LP gas add \$103.00 trade 4-8 sec, \$258 9-14 sec.

**For Powerflame LP Gas 4-7 sec., need to upgrade to UV Flame Safeguard.

CF - Consult factory

OPTIONAL GAS BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Modulation Open Damper Purge	Factory Mutual (F.M.)	Mass Code Approval (2)	ASME CSD-1(9)
POWERFLAME	G28HE-4-5	J50A-15	\$1047	CF	STD	\$718	\$170
	G28HE-6	J50A-15	1141	CF	STD	718	170
	G28HE-7	J50A-15	1641	CF	STD	718	170
	G28HE-8	C2-G-20A	1362	CF	STD	762	170
	G28HE-9	C2-G-20B	1426	CF	\$106	511	170
	G28HE-10	C2-G-20B	STD	CF	1701	260	170
	G28HE-11	C3-G-20	STD	CF	1842	260	170
	G28HE-12	C3-G-25	N/A	STD	445	260	170
	G28HE-13-14	C3-G-25	N/A	STD	445	260	170
	G28HE-15-16	C3-G-25B	N/A	STD	445	260	170
	G28HE-17-18	C4-G-25	N/A	STD	463	848	175

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Mass Code Approval (2)	ASME CSD-1(9)
BECKETT	G28HE-4	CG15	\$1953	\$1014	STD
	G28HE-5-8	CG25	2271	1181	STD
	G28HE-9-12	CG50	1297	STD	STD
	G28HE-13-14	CG50	1588	STD	STD

For additional burner options - see page 31

See page 30 for notes

GO28HE

GAS/OIL STEAM BOILER/BURNER UNIT 931-4622 MBH GROSS OUTPUT

Boiler Model Number	I = B = R Burner Input		Boiler Horse Power	Gross I = B = R Output MBH	I = B = R Net Rating		Vent Diameter	Approx. Shipping Weight
	Oil GPH*	Gas MBH			Steam			
					Sq. Ft.	MBH		
GO28HE-4	7.9	1,143	27	931	2,908	698	10"	3,102
GO28HE-5	10.2	1,458	35	1,194	3,733	896	10"	3,730
GO28HE-6	12.2	1,773	43	1,458	4,625	1,110	10"	4,368
GO28HE-7	14.4	2,088	51	1,722	5,542	1,330	12"	5,005
GO28HE-8	16.6	2,403	59	1,985	6,421	1,541	12"	5,653
GO28HE-9	18.8	2,718	67	2,249	7,275	1,746	14"	6,296
GO28HE-10	21.0	3,033	75	2,513	8,129	1,951	14"	6,971
GO28HE-11	23.0	3,348	83	2,776	8,979	2,155	14"	7,609
GO28HE-12	25.5	3,663	91	3,040	9,833	2,360	14"	8,249
GO28HE-13	27.5	3,978	98	3,304	10,688	2,565	14"	8,885
GO28HE-14	29.5	4,293	106	3,567	11,538	2,769	16"	9,524
GO28HE-15	32.0	4,608	114	3,831	12,392	2,974	16"	10,224
GO28HE-16	34.0	4,923	122	4,095	13,246	3,179	16"	10,948
GO28HE-17	36.5	5,238	130	4,358	14,100	3,384	18"	11,669
GO28HE-18	38.5	5,553	138	4,622	14,954	3,589	18"	12,390

*Based on #2 oil having BTU content 140,000 BTU/gallon

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Motor Voltage			Operating Mode	Burner Mounted Control Panel	Standard Flame Safeguard ⁽²⁾
			115V 1PH 60HZ	230V 1PH 60HZ	208/230/460V 3PH 60HZ			
POWERFLAME	GO28HE-4	C1-GO-12	STD	\$151	\$423	Lo-Hi-Lo	STD	RM7897C UV
	GO28HE-5	C1-GO-12	STD	151	423	Lo-Hi-Lo	STD	RM7897C UV
	GO28HE-6-7	C2-GO-15	\$67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO28HE-8	C2-GO-20A	67	STD	262	Lo-Hi-Lo	STD	RM7897C UV
	GO28HE-9	C2-GO-20B	67	STD	209	Lo-Hi-Lo	STD	RM7897C UV
	GO28HE-10	C2-GO-20B	67	STD	209	MOD	STD	RM7897C UV
	GO28HE-11	C3-GO-20	164	\$101	STD	MOD	STD	RM7897C UV
	GO28HE-12-14	C3-GO-25	164	101	STD	MOD	STD	RM7840L UV
	GO28HE-15-16	C3-GO-25B	N/A	N/A	STD	MOD	STD	RM7840L UV
	GO28HE-17-18	C4-GO-25	N/A	N/A	STD	MOD	STD	RM7840L UV

(2) For Alternate Flame Safeguards see page 31.

For additional burner options - see page 31

See page 30 for notes

GAS/OIL STEAM BOILER/BURNER UNIT 931-4622 MBH GROSS OUTPUT

Boiler Model Number	POWERFLAME GAS/OIL				RIELLO GAS/OIL		
	Burner Model Number	Motor H.P.	Min. Inlet Press. " W.C. ⁽⁸⁾	Trade Price	Burner Model Number	Motor H.P.	Trade Price
GO28HE-4	C1-GO-12	1/2	5.0	\$24,724	RLS28	1/2	CF
GO28HE-5	C1-GO-12	1/2	6.6	\$27,089	RLS38	1/2	CF
GO28HE-6	C2-GO-15	1	6.5	\$30,152	RLS50	3/4	CF
GO28HE-7	C2-GO-15	1	8.7	\$32,684	RLS50	3/4	CF
GO28HE-8	C2-GO-20A	1	6.3	\$35,916	RLS70	1-1/2	CF
GO28HE-9	C2-GO-20B	1-1/2	5.6	\$38,809	RLS70	1-1/2	CF
GO28HE-10	C2-GO-20B	1-1/2	7.4	\$43,116	RLS100	2-1/2	CF
GO28HE-11	C3-GO-20	2	6.8	\$46,420	RLS100	2-1/2	CF
GO28HE-12	C3-GO-25	2	7.7	\$50,238	RLS100	2-1/2	CF
GO28HE-13	C3-GO-25	2	7.2	\$54,213	RLS100	2-1/2	CF
GO28HE-14	C3-GO-25	2	8.3	\$56,573	RLS100	2-1/2	CF
GO28HE-15	C3-GO-25B	3	7.8	\$60,449	RLS130	3	CF
GO28HE-16	C3-GO-25B	3	8.8	\$63,234	RLS130	3	CF
GO28HE-17	C4-GO-25	3	6.8	\$67,944	RLS130	3	CF
GO28HE-18	C4-GO-25	5	7.4	\$70,673	N/A	N/A	N/A

CF - Consult factory

OPTIONAL GAS/OIL BURNER EQUIPMENT

	Boiler Model Number	Burner Model Number	Modulation Firing with Controller	Modulation Open Damper Purge	Factory Mutual (F.M.)	Mass Code Approval ⁽²⁾	D.E.P. Approval (formerly B.A.R.)	ASME CSD-1 ⁽⁹⁾
POWERFLAME	GO28HE-4	C1-GO-12	\$1312	CF	STD	\$935	\$937	\$363
	GO28HE-5	C1-GO-12	1312	CF	STD	935	937	363
	GO28HE-6-7	C2-GO-15	1652	CF	STD	935	937	358
	GO28HE-8	C2-GO-20A	1448	CF	STD	956	937	358
	GO28HE-9	C2-GO-20B	2776	CF	\$125	704	937	358
	GO28HE-10	C2-GO-20B	STD	CF	1871	733	937	358
	GO28HE-11	C3-GO-20	STD	CF	1624	733	1038	358
	GO28HE-12	C3-GO-25	N/A	STD	262	733	1038	358
	GO28HE-13	C3-GO-25	N/A	STD	262	733	1038	368
	GO28HE-14	C3-GO-25	N/A	STD	262	733	1038	368
	GO28HE-15	C3-GO-25B	N/A	STD	457	733	1038	368
	GO28HE-16	C3-GO-25B	N/A	STD	273	733	1038	368
	GO28HE-17	C4-GO-25	N/A	STD	204	1321	1038	368
	GO28HE-18	C4-GO-25	N/A	STD	172	1321	1038	368

For additional burner options - see page 31

See page 30 for notes

DOMESTIC WATER HEATERS

RATINGS—TANKLESS HEATERS IN INTERMEDIATE SECTION (SIDE MOUNT)

Series	Model No.	Capacity, Gals./min. 200° boiler water +	Pressure Drop-PSI	Inlet and Outlet Tapping	Shipping Weight Lbs.	Trade Price	Part Number
19HE	SM 9-18	9.0	9.5	3/4"	20	\$803	50634
28HE	SM 8-28	8.0	13.0	3/4"	25	826	50653
28HE	SM 12-28	12.0	11.0	3/4"	33	925	50655

+ Intermittent draw 100°F average temperature rise.

Tankless heaters for use with 19HE or 28HE boilers for insertion in special tankless heater, intermediate section with side heater opening
...Add per intermediate heater section \$103 19HE & 28HE/RTS series

BOILER SUNDRIES*

MISCELLANEOUS ITEMS:	ADD TO TRADE PRICE	PART NO.
8 1/2" Compound Gauge.....	\$360	60324
Tri Cocks	\$17	61413

***PRICING APPLIES TO PARTS ORDERED WITH BOILERS.**

HEATER SECTION LOCATION

Boiler Number	Maximum number of heaters	Location by boiler section + (Heaters install from right side)
28HE- 4	1	F-T-H-B
28HE- 5	2	F-H-T-H-B
28HE- 6	2	F-T-H-T-H-B
28HE- 7	2	F-T-H-P-T-H-B
28HE- 8	3	F-T-H-P-H-T-H-B
28HE- 9	3	F-T-H-P-H-P-T-H-B
28HE-10	4	F-H-T-H-P-H-P-T-H-B
28HE-11	5	F-H-T-H-P-T*-H-T-H-B
28HE-12	5	F-H-T-H-P-T-H-P-H-T-H-B
28HE-13	6	F-H-T-H-P-H-T-H-P-H-T-H-B
28HE-14	6	F-H-T-H-P-H-T-H-P-H-P-T-H-B
28HE-15	6	F-H-T-H-P-H-P-T-H-P-H-P-T-H-B
28HE-16	7	F-H-T-H-P-H-P-H-T-H-P-H-P-T-H-B
28HE-17	8	F-H-T-H-P-H-P-H-T-H-P-H-P-H-T-H-B
28HE-18	8	F-H-T-H-P-H-P-H-P-T-H-P-H-P-H-T-H-B

+ F = Front section, T = Intermediate section with 5 inch steam tapping, H= Intermediate section with side heater opening, P = Plain intermediate section, B = Back section.

* If fifth heater is required, relocate middle tapping section to this location and insert fifth heater section in its place.

HEATER SECTION LOCATION

Boiler Number	Maximum number of heaters	Location by boiler section + (Heaters install from right side)
19HE- 3	1	F-H-B
19HE- 4	1	F-P-H-B
19HE- 5	2	F-H-P-H-B
19HE- 6	2	F-P-H-P-H-B
19HE- 7	3	F-H-P-H-P-H-B
19HE- 8	3	F-P-H-P-H-P-H-B
19HE- 9	3	F-P-H-P-H-P-H-P-B
19HE-10	3	F-P-P-H-P-H-P-H-P-B
19HE-11	3	F-P-P-P-H-P-H-P-H-P-B
19HE-12	3	F-P-P-P-P-H-P-H-P-H-P-B

+ F = Front, P = Intermediate Plain, H = Intermediate Heater
B = Back

CONTROLS & L.W.C.O.*

STEAM CONTROLS

		CONTROL FUNCTION		
50498	L404F-1060	Pressure control for operating or limit service (2-15 psi)	All steam boilers	\$248
50495	L4079B-1033	Pressure control for limit service-Manual reset (2-15 psi)	All steam boilers	187
51014	L91B-1035	Modulation control.	All steam Boilers	279
50493	PA404A-1009	Pressure control (1/2 - 9 psi)	All steam boilers	122

WATER CONTROLS

PART NO.	CONTROL MODEL NO.	CONTROL FUNCTION	MAY BE USED ON BOILER MODELS	TRADE PRICE
14-1009	L4006A-1678	Temperature limit control 100-240°F, adjustable differential.	All water boilers	\$180
50511	L4006A-1827	Temperature limit control 100-240°F, fixed 5° differential.	All water boilers	136
14-1001	L4006E-1133	Temperature limit control 100-240°F, manual reset differential	All water boilers	173
50500	L4081A-1023	Dual temperature control 120-240°F, for high & low limit service.	All water boilers	361
51016	T991A-1061	Modulation control.	All water boilers	205
51390	A19ADC	Temperature limit control manual reset, SPDT.	All water boilers	130
51391		Well for A19ADC		37

PART NO.	CONTROL MODEL NO.	CONTROL FUNCTION	MAY BE USED ON BOILER MODELS	TRADE PRICE
FEEDER CUTOFF COMBINATIONS (NO PIPING FURNISHED)				
50750	47-2	Feeder cutoff combination 1/2" quick hook-up fittings 25 psi maximum pressure.	All steam boilers up to 5,000 sq. ft. steam	\$1,112
50754	51-2	Feeder cutoff combination 1" equalizing, 3/4" water connection, 35 psi maximum pressure.	All steam boilers 5,000 to 12,000 sq. ft.	1370
50764	51-S-2	Feeder cutoff combination 1" equalizing, 3/4" water connection, 35 psi maximum pressure.	All steam boilers up to 17,500 sq. ft.	1278
LOW WATER CUTOFFS (NO PIPING FURNISHED)				
50766	61	L.W.C.O. 1" equalizing connection with no.11 switch, 20 psi maximum pressure.	All steam boilers	\$532
50757	63	L.W.C.O. 1" equalizing connection with no. 2 switch, 50 psi maximum pressure.	All steam or water boilers	645
50758	63M	L.W.C.O. 1" equalizing connection, 50 psi maximum pressure no. 2 switch, manual reset.	All steam or water boilers	652
50074	PS801-M-U-120	Electric probe level control with manual reset	All steam boilers	347
50083	751P-MT-U-120	Electric probe level control with manual-reset (CSD-1).	All water boilers	318
14-2500	550-LSV	Electric probe with M/R and test switch.	All water boilers	223
50093	650	Electric probe level control with auto-reset.	All water boilers	212
50073	TC-4 valves	Test and check valves.	All water boilers	587
PUMP CONTROLLER, LOW WATER CUTOFF & ALARM SWITCH COMBINATIONS (NO PIPING FURNISHED)				
50081	150S	For boilers with separate water columns (snap switch).	All steam boilers	\$883
50082	150SM	Water boiler over 50 psi (snap switch).	All steam boilers	800
50759	157-S-RLS (MD)	Contains integral water column.	Steam boilers	1213
50768	193	Magnetic Switching. For boilers with separate water columns. water boiler over 50 psi	Steam boilers	CF
50765	158S	High water cutoff.	Steam boilers	CF

NOTES 19HE AND 28HE

- (1) 19HE-11-12 boilers are furnished with a 10" x 12" increasing transition collar.
- (2) Mass Code - prices include the following:

Note: Mass Code DOES NOT INCLUDE flame safeguard upgrade or adder on operating mode.

GAS

- A. 400 – 1,000 MBH input (19HE-4 thru 19HE-6)
1. Approved main gas cock (leakage test cock)
 2. Proven low fire start
- B. 1,000 – 2,499 MBH input (19HE-7 thru 19HE-12)
(28HE/RTS-4 thru 28HE/RTS-8)
1. Proven low fire start
 2. High and low gas pressure switches
 3. Approved main gas cock (leakage test cock)
 4. Burner must be LHL or modulation
- C. 2,500 MBH input and over
(28HE/RTS-9 thru 28HE/RTS-18)
1. Proven low fire start
 2. High and low gas pressure switches (included in standard burner)
 3. Approved main gas cock (leakage test cock)
 4. Burner must be LHL or modulation

OIL

- A. Under 20 gph input (19HE-3 thru 19HE-12)
(28HE/RTS-4 thru 28HE/RTS-9)
1. Standard U.L. burner is acceptable
- B. Over 20 gph input (28HE/RTS-10 thru 28HE/RTS-18)
1. Self-checking flame safeguard

GAS/OIL

- A. Includes the applicable GAS requirements **and** the applicable OIL requirements as shown above.

- (8) See pages 32-35 for a chart of Powerflame gas trains that are available for gas pressures other than standard.
- (9) Prices shown include CSD-1 **burner** requirements only. For a complete CSD-1 approved boiler/burner unit, add **boiler** control requirements from below:

WATER

\$223

550 LSV 14-2500

STEAM*

Pumped Return

\$1,535

150S pump control #50081

63M M/R L.W.C.O. #50758

Gravity Return

\$1,184

61 L.W.C.O. #50766

63M M/R L.W.C.O. #50758

*Additional 1" Tap required\$61

- (10) To meet CSD-1 requirements, oil filter must be ordered. Supplied by others.

Note: When using float type LWCO, add for M/M TC-4 (test and check valves) on water boilers. Order LWCO less piping.

The selected controls are subject to the approval of the local inspector. Consult Smith Application Engineering Department for alternate selections.

OPTIONAL BURNER EQUIPMENT 19HE & 28HE⁽³⁾

DESCRIPTION	CARLIN	BECKETT	POWERFLAME
Alarm Bell ⁽⁴⁾	\$651	CF	\$432
Silencing Switch	107	CF	205
Relay	89	CF	123
Control Transformer	CF	CF	700 ⁽²⁾
Pilot Lights	56	CF	CF
*Direct Spark - Oil	STD	STD	353
Low Fire Hold Switch	STD	STD	STD ⁽⁵⁾
Manual Potentiometer (1)	N/A	N/A	STD
High Gas Pressure Switch	N/A	N/A	131 ⁽⁶⁾
Low Gas Pressure Switch	N/A	N/A	131 ⁽⁶⁾

*Applicable to gas/oil burners only.

CF – Consult Factory for pricing.

(1) Full modulation burners only.

(2) Includes larger panel to accommodate transformer.

(3) Above options require addition of burner mounted control panel.

(4) Multiple alarms that ring a bell and light separate lights requires one isolation relay per function.

(5) Low fire hold timer.

(6) Standard on Burners 2,500 MBH and over.

Alternate Flame Safeguards

Standard Flame Safeguard	Burner Model	OPTIONAL FLAME SAFEGUARD TRADE ADDER				
		RM7897A Flame Rod	RM7897A UV	RM7897C UV	RM7840L	RM7800L
R7284P	Powerflame	--	\$1063	\$1063	\$2431	\$3046
RM7897A Flame Rod	Powerflame	x	209	209	1567	2179
RM7897A UV	Powerflame	--	x	--	1372	1984
RM7897C UV	Powerflame	--	--	x	1372	1984
RM7840L	Powerflame	--	--	--	x	617
	Carlin	--	--	--	x	--
CCT 60200	Carlin	--	1781	1754	4148	--

19HE SERIES ALTERNATE GAS PRESSURES

Powerflame "J" Burner

Add to boiler burner trade price. Specify available gas pressure if other than standard

		Power Flame Gas Train Sizing and Pricing- 19HE Series "J" Burner									
		3.3"W.C.			4.0"W.C.			4.5"W.C.			6.0"W.C.
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure "W.C.	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)
19HE-3	JR15A-10	1.00"	4.3	1.00"	\$84	1.00"	\$84	1.00"	STD	1.00"	STD
19HE-4	JR15A-10	1.00"	4.4	1.00"	84	1.00"	84	1.00"	STD	1.00"	STD
19HE-5	JR30A-10	1.00"	5.3	1.25"	515	1.25/1.00" ⁽¹⁾	223	1.25/1.00" ⁽¹⁾	\$223	1.00"	STD
19HE-6	JR30A-10	1.00"	5.6	1.50/1.25" ⁽¹⁾	488	1.25"	394	1.25/1.00" ⁽¹⁾	223	1.25/1.00" ⁽¹⁾	\$223
19HE-7	JR30A-12	1.25/1.00" ⁽¹⁾	5.9	2.00/1.50" ⁽¹⁾	892	1.50/1.25" ⁽¹⁾	267	1.50/1.25" ⁽¹⁾	267	1.25"	178
19HE-8	JR50A-15	1.25/1.00" ⁽¹⁾	6	1.50/2.00" ⁽¹⁾	589	1.50/1.25" ⁽¹⁾	276	1.25"	178	1.25/1.00" ⁽¹⁾	STD
19HE-9	JR50A-15	1.25"	5.9	2.00"	1032	2.00/1.50" ⁽¹⁾	791	1.50"	209	1.50/1.25" ⁽¹⁾	96
19HE-10	JR50A-15	1.50/1.25" ⁽¹⁾	5.3	2.00"	941	2.00/1.50" ⁽¹⁾	693	2.00/1.50" ⁽¹⁾	693	1.50"	110
										1.50/1.25" ⁽¹⁾	STD

		Power Flame Gas Train Sizing and Pricing- 19HE Series "J" Burner									
		7.0"W.C.			9.0"W.C.			14.0"W.C.			28.0"W.C.
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure "W.C.	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)
19HE-3	JR15A-10	1.00"	4.3	1.00"	STD	1.00"	STD	1.00"	STD	1.00"	\$85
19HE-4	JR15A-10	1.00"	4.4	1.00"	STD	1.00"	STD	1.00"	STD	1.00"	85
19HE-5	JR30A-10	1.00"	5.3	1.00"	STD	1.00"	STD	1.00"	STD	1.00"	85
19HE-6	JR30A-10	1.00"	5.6	1.00"	STD	1.00"	STD	1.00"	STD	1.00"	85
19HE-7	JR30A-12	1.25/1.00" ⁽¹⁾	5.9	1.25/1.00" ⁽¹⁾	STD	1.25/1.00" ⁽¹⁾	STD	1.25/1.00" ⁽¹⁾	STD	1.00"	\$64
19HE-8	JR50A-15	1.25/1.00" ⁽¹⁾	6	1.25/1.00" ⁽¹⁾	STD	1.25/1.00" ⁽¹⁾	STD	1.25/1.00" ⁽¹⁾	STD	1.00"	\$64
19HE-9	JR50A-15	1.25"	5.9	1.25"	STD	1.25"	STD	1.00"	(\$102)	1.00"	(\$102)
19HE-10	JR50A-15	1.50/1.25" ⁽¹⁾	5.3	1.50/1.25" ⁽¹⁾	STD	1.25"	(\$55)	1.25"	(\$68)	1.00"	(\$135)
										1.00"	212

⁽¹⁾ Dual Size GasTrains: Leak test cock, main gas valve, and auxiliary gas valve are indicated by the first number, gas pressure regulator and main shutoff cock are indicated by the second number.

NOTES:

- Maxitrol 325-3 high pressure pilot gas regulator is standard for all burner models.
- 2-5 PSIG Gas Trains include Maxitrol 210D high pressure regulator.
- If a gas high pressure switch is required for the 19HE-07 consult factory.

19HE SERIES ALTERNATE GAS TRAIN

Powerflame "CR" Burner

Add to boiler burner trade price. Specify available gas pressure if other than standard

Power Flame Gas Train Sizing and Pricing- 19HE Series "C" Burner																		
				3.3"W.C			4.0"W.C			4.5"W.C			5.0"W.C			6.0"W.C		
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure "W.C."	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List
19HE-4	CR1-G(O)-10	1.00"	4.1	1.00"	\$85	STD	1.00"	1.00"	STD	1.00"	1.00"	STD	1.00"	1.00"	STD	1.00"	1.00"	STD
19HE-5	CR1-G(O)-10	1.00"	4.3	1.25"	394	STD	1.00"	1.00"	STD	1.00"	1.00"	STD	1.00"	1.00"	STD	1.00"	1.00"	STD
19HE-6	CR1-G(O)-12	1.00"	5.4	1.25"	394	1.25/1.00" ⁽¹⁾	1.25/1.00" ⁽¹⁾	\$207	348	1.25/1.00" ⁽¹⁾	\$207	348	1.25/1.00" ⁽¹⁾	\$174	348	1.00"	1.00"	STD
19HE-7	CR2-G(O)-15	1.00"	6.2	1.50"	479	1.25"	1.25"	348	348	1.25"	348	348	1.25"	348	348	1.00"	1.00"	STD
19HE-8	CR2-G(O)-15	1.25"	5.3	2.00/1.50" ⁽¹⁾	791	1.50" ⁽¹⁾	1.50" ⁽¹⁾	209	209	1.25"	STD	STD	1.25"	STD	STD	1.25"	1.25"	STD
19HE-9	CR2-G(O)-15	1.25"	5.7	2.00"	1032	2.00"	2.00"	1032	96	1.50/1.25" ⁽¹⁾	96	96	1.50/1.25" ⁽¹⁾	96	96	1.25"	1.25"	STD
19HE-10	CR2-G(O)-15	1.50/1.25" ⁽¹⁾	5.3	2.00"	825	2.00/1.50" ⁽¹⁾	2.00/1.50" ⁽¹⁾	697	584	2.00/1.50" ⁽¹⁾	584	584	1.50/1.25" ⁽¹⁾	STD	STD	1.50/1.25" ⁽¹⁾	1.50/1.25" ⁽¹⁾	STD
19HE-11	CR2-G(O)-20A	1.50"	6.3	2.00"	905	2.00/1.50" ⁽¹⁾	2.00/1.50" ⁽¹⁾	584	584	2.00/1.50" ⁽¹⁾	584	584	2.00/1.50" ⁽¹⁾	504	504	2.00/1.50" ⁽¹⁾	2.00/1.50" ⁽¹⁾	\$584
19HE-12	CR2-G(O)-20B	2.00/1.50" ⁽¹⁾	4.0	2.50"	1357	2.50/1.50" ⁽¹⁾	2.50/1.50" ⁽¹⁾	STD	STD	2.00/1.50" ⁽¹⁾	STD	STD	2.00/1.50" ⁽¹⁾	STD	STD	2.00/1.50" ⁽¹⁾	2.00/1.50" ⁽¹⁾	\$584

Power Flame Gas Train Sizing and Pricing- 19HE Series "C" Burner																		
				7.0"W.C.			9.0"W.C.			14.0"W.C.			28.0"W.C.			2-5 PSI		
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure "W.C."	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List	Train Size	Add(deduct)	List
19HE-4	CR1-G(O)-10	1.00"	4.1	1.00"	STD	STD	1.00"	1.00"	STD	1.00"	STD	STD	1.00"	STD	\$84	1.00"	\$678	
19HE-5	CR1-G(O)-10	1.00"	4.3	1.00"	STD	STD	1.00"	1.00"	STD	1.00"	STD	STD	1.00"	STD	84	1.00"	678	
19HE-6	CR1-G(O)-12	1.00"	5.4	1.00"	STD	STD	1.00"	1.00"	STD	1.00"	STD	STD	1.00"	STD	84	1.00"	678	
19HE-7	CR2-G(O)-15	1.00"	6.2	1.00"	STD	STD	1.00"	1.00"	STD	1.00"	STD	STD	1.00"	STD	STD	1.00"	592	
19HE-8	CR2-G(O)-15	1.25"	5.3	1.25"	STD	STD	1.00"	1.00"	(\$102)	1.00"	(\$102)	(\$102)	1.00"	1.00"	(\$102)	1.00"	305	
19HE-9	CR2-G(O)-15	1.25"	5.7	1.25"	STD	STD	1.25/1.00" ⁽¹⁾	1.00"	(\$39)	1.00"	(\$102)	(\$102)	1.00"	1.00"	(\$102)	1.00"	305	
19HE-10	CR2-G(O)-15	1.50/1.25" ⁽¹⁾	5.3	1.50/1.25" ⁽¹⁾	STD	STD	1.25"	1.25"	(\$55)	1.25"	(\$55)	(\$55)	1.00"	1.00"	(\$135)	1.00"	212	
19HE-11	CR2-G(O)-20A	1.50"	6.3	1.50"	STD	STD	1.25"	1.25"	(\$95)	1.25"	(\$95)	(\$95)	1.25"	1.25"	(\$74)	1.25"	277	
19HE-12	CR2-G(O)-20B	2.00/1.50" ⁽¹⁾	4.0	2.00/1.50" ⁽¹⁾	STD	STD	1.50"	1.50"	(\$221)	1.50"	(\$221)	(\$221)	1.50"	1.50"	(\$221)	1.50"	(\$110)	

⁽¹⁾ Dual Size GasTrains: Leak test cock, main gas valve, and auxiliary gas valve are indicated by the first number, gas pressure regulator and main shutoff cock are indicated by the second number.

NOTES:

- Maxitrol 325-3 high pressure pilot gas regulator is standard for all burner models.

- 2-5 PSIG Gas Trains include Maxitrol 210D high pressure regulator.

28HE/RTS-HE SERIES ALTERNATE GAS PRESSURES

Powerflame "C" Burner

Add to boiler burner trade price. Specify available gas pressure if other than standard

Power Flame Gas Train Sizing and Pricing- 28HE/RTS-HE Series "C" Burner																	
			3.3"WC			4.0"WC			4.5"WC			5.0"WC			6.0"WC		
Boiler Model	Burner Model	Standard Gas Pressure " W.C."	Train	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	
28HE/RTS-HE-4	C1-G(O)-12	5.0	1.25"	\$716	2.00/1.50" ⁽¹⁾	\$716	2.00/1.50" ⁽¹⁾	\$716	1.50"	\$212	1.25"	STD	1.25/1.00" ⁽¹⁾	\$35	1.25/1.00" ⁽¹⁾	\$35	
28HE/RTS-HE-5	C1-G(O)-12	6.6	1.25"	1035	2.00"	1035	2.00"	1035	2.00"	1035	1.50/1.25" ⁽¹⁾	\$137	1.50/1.25" ⁽¹⁾	\$137	1.50/1.25" ⁽¹⁾	\$137	
28HE/RTS-HE-6	C2-G(O)-15	6.5	1.50"	1024 ⁽²⁾	2.00/1.50" ⁽¹⁾	1024 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	2.00/1.50" ⁽¹⁾	96 ⁽²⁾	1.50"	96 ⁽²⁾	
28HE/RTS-HE-7	C2-G(O)-15	8.7	1.50"	2063 ⁽²⁾	2.00/2.50" ⁽¹⁾	1360 ⁽²⁾	2.00/2.50" ⁽¹⁾	1024 ⁽²⁾	2.00"	1024 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	2.00/1.50" ⁽¹⁾	705 ⁽²⁾	
28HE/RTS-HE-8	C2-G(O)-20A	6.3	2.00/1.50" ⁽¹⁾	2818 ⁽²⁾	2.50/2.00" ⁽¹⁾	1144 ⁽²⁾	2.50/2.00" ⁽¹⁾	419 ⁽²⁾	2.00"	419 ⁽²⁾	2.00"	361 ⁽²⁾	2.00/1.50" ⁽¹⁾	96 ⁽²⁾	2.00/1.50" ⁽¹⁾	96 ⁽²⁾	
28HE/RTS-HE-9	C2-G(O)-20B	5.6	2.00/1.50" ⁽¹⁾	633	2.50"	1385	2.50"	1047	2.50/2.00" ⁽¹⁾	1047	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	
28HE/RTS-HE-10	C2-G(O)-20B	7.4	2.00/1.50" ⁽¹⁾	1383	2.50"	1051	2.50/2.00" ⁽¹⁾	323	2.00"	323	2.00"	323	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	
28HE/RTS-HE-11	C3-G(O)-20	6.8	2.00"	2523 ⁽²⁾	3.00"	1189 ⁽²⁾	2.50"	464 ⁽²⁾	2.00/2.50" ⁽¹⁾	464 ⁽²⁾	2.50"	1187 ⁽²⁾	2.50"	852 ⁽²⁾	2.50"	852 ⁽²⁾	
28HE/RTS-HE-12	C3-G(O)-25	7.7	2.00"	13,799 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	1189 ⁽²⁾	2.50"	1189 ⁽²⁾	2.50"	1189 ⁽²⁾	2.00"	127 ⁽²⁾	2.00"	127 ⁽²⁾	2.00"	127 ⁽²⁾	
28HE/RTS-HE-13	C3-G(O)-25	7.2	2.50"/2.00" ⁽¹⁾	N/A	N/A	1799 ⁽²⁾	3.00"	1759 ⁽²⁾	3.00"	1759 ⁽²⁾	2.50"	464 ⁽²⁾	2.00/2.50" ⁽¹⁾	127 ⁽²⁾	2.00/2.50" ⁽¹⁾	127 ⁽²⁾	
28HE/RTS-HE-14	C3-G(O)-25	8.3	2.50"/2.00" ⁽¹⁾	N/A	N/A	15969 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13304 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13304 ⁽²⁾⁽³⁾	3.00"	1759 ⁽²⁾	3.00"	1759 ⁽²⁾	3.00"	1759 ⁽²⁾	
28HE/RTS-HE-15	C3-G(O)-25B	7.8	2.50"/2.00" ⁽¹⁾	15990 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13325 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	1820 ⁽²⁾	3.00"	1820 ⁽²⁾	2.50"	483 ⁽²⁾	2.50"	487 ⁽²⁾	2.50"	487 ⁽²⁾	
28HE/RTS-HE-16	C3-G(O)-25B	8.8	2.50"/2.00" ⁽¹⁾	15990 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13325 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	1820 ⁽²⁾	3.00"	1820 ⁽²⁾	2.50"	483 ⁽²⁾	2.50"	487 ⁽²⁾	2.50"	487 ⁽²⁾	
28HE/RTS-HE-17	C4-G(O)-25	6.8	2.50"	15101 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13625 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13625 ⁽²⁾	4.00/3.00" ⁽¹⁾	13625 ⁽²⁾	3.00"	1338	2.50"	STD	2.50"	STD	
28HE/RTS-HE-18	C4-G(O)-25	7.4	2.50"	15101 ⁽²⁾⁽³⁾	4.00"	15101 ⁽²⁾⁽³⁾	4.00"	15101 ⁽²⁾⁽³⁾	4.00/3.00" ⁽¹⁾	13625 ⁽²⁾	3.00"	1338	3.00"	1338	3.00"	1338	

Power Flame Gas Train Sizing and Pricing- 28HE/RTS-HE Series "C" Burner												
			7.0"WC				14.0"WC				25.0"WC	
Boiler Model	Burner Model	Standard Gas Pressure " W.C.	Train	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)
28HE/RTS-HE-4	C1-G(O)-12	5.0	1.25"	(\$35)	1.25/1.00" ⁽¹⁾	(\$35)	1.00"	(\$101)	1.00"	(\$101)	1.00"	(\$101)
28HE/RTS-HE-5	C1-G(O)-12	6.6	1.25"	STD	1.25"	STD	1.00"	(\$101)	1.00"	(\$101)	1.00"	(\$101)
28HE/RTS-HE-6	C2-G(O)-15	6.5	1.50"	STD	1.50"	(\$49)	1.25"	(\$49)	1.25"	(\$49)	1.25"	(\$49)
28HE/RTS-HE-7	C2-G(O)-15	8.7	1.50"	\$609	2.00/1.50" ⁽¹⁾	STD	1.25"	(\$49)	1.25"	(\$49)	1.25"	(\$49)
28HE/RTS-HE-8	C2-G(O)-20A	6.3	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	1.50"	(\$212)	1.50"	(\$212)	1.25"	(\$38)
28HE/RTS-HE-9	C2-G(O)-20B	5.6	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	1.50"	(\$212)	1.50"	(\$212)	1.50"	(\$92)
28HE/RTS-HE-10	C2-G(O)-20B	7.4	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	2.00/1.50" ⁽¹⁾	STD	1.50"	(\$212)	1.50"	(\$92)
28HE/RTS-HE-11	C3-G(O)-20	6.8	2.00"	STD	2.00/1.50" ⁽¹⁾	(\$110)	2.00/1.50" ⁽¹⁾	(\$110)	1.50"	(\$322)	1.50"	(\$92)
28HE/RTS-HE-12	C3-G(O)-25	7.7	2.00"	STD	2.00"	STD	2.00/1.50" ⁽¹⁾	(\$110)	1.50"	(\$322)	1.50"	(\$92)
28HE/RTS-HE-13	C3-G(O)-25	7.2	2.00/2.50" ⁽¹⁾	127 ⁽²⁾	2.00"	(\$265)	2.00"	(\$265)	2.00"	(\$265)	1.50"	(\$160)
28HE/RTS-HE-14	C3-G(O)-25	8.3	2.50/2.00" ⁽¹⁾	127 ⁽²⁾	2.00/2.50" ⁽¹⁾	STD	2.00"	(\$265)	2.00"	(\$265)	1.50"	(\$160)
28HE/RTS-HE-15	C3-G(O)-25B	7.8	2.50/2.00" ⁽¹⁾	479 ⁽²⁾	2.50/2.00" ⁽¹⁾	STD	2.00"	(\$265)	2.00"	(\$265)	1.50"	(\$160)
28HE/RTS-HE-16	C3-G(O)-25B	8.8	2.50/2.00" ⁽¹⁾	483 ⁽²⁾	2.50/2.00" ⁽¹⁾	STD	2.00"	(\$265)	2.00"	(\$265)	1.50"	(\$160)
28HE/RTS-HE-17	C4-G(O)-25	6.8	2.50"	STD	2.50"	STD	2.00"	(\$388)	2.00"	(\$388)	1.50"	(\$390)
28HE/RTS-HE-18	C4-G(O)-25	7.4	2.50"	STD	2.50"	STD	2.00"	(\$388)	2.00"	(\$388)	1.50"	(\$390)

FOOTNOTE:

⁽¹⁾ Dual Size Gas Trains: The leakage test cock, main gas valve, and auxiliary gas valve are indicated by the first number, regulator and main shutoff cock are indicated by the second number.

⁽²⁾ Price includes low pressure drop premix blast tube.

⁽³⁾ Burner minimum mode of operation is modulation.

NOTES:

- Maxitrol 325-3 high pressure pilot gas regulator is standard for all burners.

28HE/RTS-HE SERIES ALTERNATE GAS PRESSURES

Powerflame "J" Burner

Add to boiler burner trade price. Specify available gas pressure if other than standard

Power Flame Gas Train Sizing and Pricing- 28HE/RTS-HE Series "J" Burner																		
				3.3"W.C			4.0"W.C			4.5"W.C			5.0"W.C			6.0"W.C		
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure " W.C.	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	
28HE/RTS-HE-4	J50A-15	1.25"	5	2.00/1.50" ⁽¹⁾	\$716	1.50"	\$212	1.50"	\$281	1.25"	\$212	1.25"	STD	1.25"	STD	1.25"	STD	
28HE/RTS-HE-5	J50A-15	1.25"	5.7	2.00/1.50" ⁽¹⁾	716	2.00/1.50" ⁽¹⁾	716	1.50"	212	1.25"	212	1.25"	\$212	1.25"	STD	1.25"	STD	
28HE/RTS-HE-6	J50A-15	1.50"	6.6	2.00/1.50" ⁽¹⁾	1264	2.00"	928	2.00"	928	2.00"	928	2.00"	928	2.00/1.50" ⁽¹⁾	\$608	2.00/1.50" ⁽¹⁾	\$608	
28HE/RTS-HE-7	J50A-15	1.50"	9.2	N/A	N/A	2.50"	1967	2.50"	1967	2.00"	1967	2.00"	928	2.00/1.50" ⁽¹⁾	608	2.00/1.50" ⁽¹⁾	608	

Power Flame Gas Train Sizing and Pricing- 28HE/RTS-HE Series "J" Burner																		
				7.0"W.C			9.0"W.C			14.0"W.C			28.0"W.C			2-5 PSI		
Boiler Model	Burner Model	Standard Gas Train	Standard Gas Pressure " W.C.	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	Train Size	List Add(deduct)	
28HE/RTS-HE-4	J50A-15	1.25"	5	1.25"	STD	1.25"	STD	1.25"	STD	1.00"	STD	1.00"	STD	1.00"	\$153	1.00"	\$153	
28HE/RTS-HE-5	J50A-15	1.25"	5.7	1.25"	STD	1.25"	STD	1.25"	STD	1.00"	STD	1.00"	STD	1.00"	(18)	1.00"	(18)	
28HE/RTS-HE-6	J50A-15	1.50"	6.6	1.50"	STD	1.50"	STD	1.25"	STD	1.25"	(\$49)	1.25"	STD	1.25"	189	1.25"	189	
28HE/RTS-HE-7	J50A-15	1.50"	9.2	2.00/1.50" ⁽¹⁾	\$608	1.50"	STD	1.25"	STD	1.25"	(\$49)	1.25"	STD	1.25"	189	1.25"	189	

⁽¹⁾ Dual Size GasTrains: Leak test cock, main gas valve, and auxiliary gas valve are indicated by the first number, gas pressure regulator and main shutoff cock are indicated by the second number.

NOTES:
 - Maxitrol 325-3 high pressure pilot gas regulator is standard for all burner models.

TERMS AND CONDITIONS OF SALE

TRADE PRICE SHEET

PRICES: All prices herein quoted supersede all prior quotations and are subject to change without notice. All quotations made and orders accepted are upon the express provision that prices to be charged are those in effect at time of shipment.

No obligation is assumed by the Corporation to sell, to anyone holding this book, any of the items listed herein at the prices stated.

TERMS: *Invoices dated* from the first to the 25th of the month *inclusive* will be subject to a cash discount of 2% if paid on or before the 15th of the month following and will be due net on the next succeeding day.

Invoices dated the 26th to the end of the month will be considered dated the first of the following month and will be subject to 2% cash discount as outlined above.

The 2% cash discount is to be computed on the total amount of the invoice before any additions or deductions for transportation, and/or sales taxes are applied.

Invoices not paid within 30 days after the period for taking the 2% discount ends, will be charged at the legal rate of interest on outstanding invoices beginning as of the end of the discount period.

An order for items which totals less than \$25.00 will be shown on the invoice at \$25.00 minimum.

Freight allowances hereinafter specified must be deducted from invoice before applying cash discount.

Prepaid freight or cartage charges paid by us and added to invoice are not subject to cash discount.

ACCEPTANCE OF ORDERS: Your acceptance, in writing, of our quotation constitutes a contract subject only to the approval, in writing, of our executive department at our office at Westfield, Massachusetts.

All orders are subject to final approval of our Credit Department. If, in our sole judgement, the financial condition of the buyer warrants such action, we shall have the absolute right, at any time, on any filled or unfilled portion of any order with the buyer, to alter or withdraw or fix the limits of credit extended, or to require cash payment before delivery, or satisfactory security in advance, without releasing buyer's obligation to accept. No failure of seller to exercise any right accruing from any default of buyer shall impair seller's right in case of any subsequent default of buyer.

Cancellation of orders, or any part thereof, will not be effective unless accepted by us in writing over the signature of our executive department at our office at Westfield, Massachusetts.

No waiver by either party of any defaults shall be deemed a waiver of any subsequent default. We shall not be responsible for any claim of damages for any errors in executing oral instruction.

TAXES: Buyer shall pay any Federal, State, Municipal or local excise, manufacturers, sales or use taxes which are or may hereafter be enacted or levied upon products sold by us.

DELIVERY: Delivery dates are estimated only and not guaranteed under any conditions whatsoever. We shall in no case be responsible for any failure or delays, in whole or in part, in manufacturing, making shipments or deliveries, or otherwise caused by any conditions, of any nature whatsoever, whether within or beyond our control, and in no event for any damages whatsoever.

All orders are accepted subject to delays on account of government requirements, strikes, accidents or other causes beyond our control.

The responsibility of this Company ceases upon delivery of goods in good order to transportation companies.

CLAIMS: As all goods are shipped at buyer's risk, they should be examined carefully before signing delivery receipts. If transportation company tenders delivery of goods in bad order, buyer should insist on carrier's agent making notation of conditions on freight bills, thus enabling buyer to secure prompt payment of transportation claims filed by him for value of damaged material.

CANCELLATION & ORDER TERMINATION: If buyer seeks to terminate any part of an order prior to delivery, buyer shall contact Smith, in writing at once. In any event, no order or part thereof shall be subject to cancellation or termination by buyer without prior written consent. Cost of special fabricated material or parts in a work-in-process state at time of requested cancellation will be charged to the buyer.

RETURNED GOODS: Goods must not be returned except by special permission, and when so returned will be subject to a deduction of twenty five per cent (25%) for rehandling, and all transportation charges, including freight and cartage, will be paid by shipper. Material made on special order is not subject to return.

MODIFICATION: This price sheet contains all the terms and conditions with respect to the purchase and sale of the goods stated herein and the same may not be altered, modified, waived, abandoned or terminated in any respect whatsoever unless and except in writing signed by one of our executive officers.