

EMERALD

EMEE SERIES

Multi-Fuel Residential Steel Boilers



EMEE OIL

- Available in 7 sizes
85 MBTUH to 150 MBTUH
- AFUE to 86 %
- Optional Tankless Coil
- Available with Becket, Carlin, or Riello Oil Burners
- Control package includes Low Water Cut-Off
- Limited Lifetime Warranty



Welcome home!



EMG EE GAS

- Multi-Fuel Capability
Carlin EZ Gas Burner
- Available in 6 sizes
120 MBTUH to 220 MBTUH
- Available with optional Tankless Coil
- AFUE to 84 %
- Control package includes Low Water Cut-Off
- Limited Lifetime Warranty

Manufacturing Boilers Since 1936

COLUMBIA

COLUMBIA BOILER COMPANY

610-473-8457

www.columbiaboiler.com

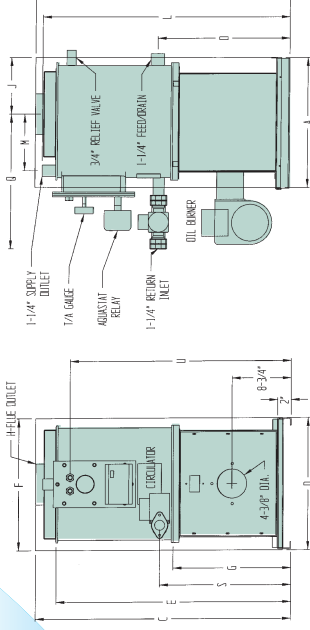


Carlin EZ Gas Burner

EMERALD

EMEE SERIES

BOILER SPECIFICATIONS



General Information

- Clearances:** (Required distances measured from boiler) Top: 24", Sides: 6", Front: 24", Back: 6", Flue Connector: 18"
- Connections:** (All models) Supply Tapping: 1-1/4", Return Tapping: 1-1/4" NPT, Oil Line: 3/8" O.D., Copper tubing for runs of 50' or less and 1/2" O.D. for longer runs.
- Electrical:** 120 Volts AC, 60 Hertz, 1-phase, less than 12 amps (15-amp circuit recommended)

DOE RATINGS AND DATA

Boiler Model No.	EM-85EE	EM-100EE	EM-110EE	EM-3100EE*	EM-125EE*	EM-135EE	EM-150EE*
Input - MBTU/Hr:	119	140	154	140	175	189	210
Heating Capacity	102	117	130	117	147	159	179
Net Output	88	102	113	102	128	138	155
Nozzle @140 psi (Beckett)	.65 80"B	.75 80"B	.85 80"B	.85 80"B	1.00 80"B	1.10 80"A	1.25 80"A
Nozzle @150 psi (Riello)	.65 60"A	.75 60"A	.85 60"A	NA	1.00 60"A	1.10 80"A	1.25 80"A
Nozzle @140 psi (Carlin)	.65 70"A	.75 70"A	.85 70"A	NA	1.00 60"B	1.10 60"B	1.25 60"B
Input - GPH	.85	1.00	1.10	1.00	1.25	1.35	1.50
AFUE Ratings	85.12	84.00	84.58	86.03	84.77	84.00	84.56
GPM Tankless Coil (GPM)	3	5	5	5	5	5	5
Number of Fire Tubes	12 (2")	12 (2")	14 (2")	8 (3")	8 (3")	10 (3")	14 (3")
Water Capacity (gallons)	13	13	12.5	22	22	20	16
Approx. Shipping Weight (lbs)	295	295	300	355	355	370	390

DIMENSIONS

Casing	A Length	20"	20"	20"	21"	21"	21"
	C Height	37-1/4"	37-1/4"	37-1/4"	46"	46"	46"
	D Width	19-1/2"	19-1/2"	19-1/2"	21"	21"	21"
Boiler	E Height	34-3/8"	34-3/8"	34-3/8"	43-3/8"	43-3/8"	43-3/8"
	F Diameter	16-3/4"	16-3/4"	16-3/4"	18-3/4"	18-3/4"	18-3/4"
	G Base Height	17"	17"	17"	20-1/2"	20-1/2"	20-1/2"
Flue Outlet	H Size	6"	6"	6"	6"	6"	6"
	I Height	37-1/2"	37-1/2"	37-1/2"	47"	47"	47"
	J C.L. to Rear	9"	9"	9"	10-1/2"	10-1/2"	10-1/2"
Supply Outlet	L Size	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
	L Height	35-1/4"	35-1/4"	35-1/4"	45"	45"	45"
	M C.L. to Outlet	8-1/2"	8-1/2"	8-1/2"	8-3/8"	8-3/8"	8-3/8"
Feed/Drain	O Size	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
	O Height	19-1/2"	19-1/2"	19-1/2"	22-3/4"	22-3/4"	22-3/4"
Return Inlet	Q Size	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
	Q C.L. to Inlet	19-1/2"	19-1/2"	19-1/2"	20"	20"	20"
	S Height	19"	19"	19"	22-1/2"	22-1/2"	22-1/2"
Coil	U Nominal Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	U Height	32-1/4"	32-1/4"	32-1/4"	42"	42"	42"

*These boilers may be converted to Natural or LP Gas using the Carlin EZ Gas Burner.

Standard Equipment

- Boiler Control:** Hydrostat with LWCO
- ASME:** Boiler, Flush Jacket, Ceramic Fiber Combustion Chamber
- Taco 007 Circulator, Theratimer Gauge, ASME Relief Valve, Brass Drain Valve, Dip Tube Assembly
- Burners:** Beckett, Riello, or Carlin Oil or Carlin EZ Gas. All burners with Quick Disconnects.
- Boilers may be ordered with or less Tankless Coil

GAS BOILERS

EMG-120EE	EMG-140EE	EMG-160EE	EMG-180EE	EMG-200EE	EMG-220EE
120,000	140,000	160,000	180,000	200,000	220,000
100,000	116,200	131,700	152,000	168,000	182,000
88,000	101,000	114,000	132,000	146,000	158,000
NAT LP	NAT LP	NAT LP	NAT LP	NAT LP	NAT LP
C 11/64 (1.172)	1/4 13/64 (.250)	L 7/32 (.290)	N C (.302)	21/64 (.328)	T 17/64 (.358)
1.95	0.79	2.28	0.95	2.60	1.06
84	83	82.3	84.2	83.1	82
5	5	5	5	5	5
8 (3")	8 (3")	8 (3")	14 (3")	14 (3")	14 (3")
13	13	13	16	16	16
355	355	355	370	370	370

Gas Type
Drill Size
Decimal
Input-CFM

21"	21"	21"	21"	21"	21"
46"	46"	46"	46"	46"	46"
21"	21"	21"	21"	21"	21"
43-3/8"	43-3/8"	43-3/8"	43-3/8"	43-3/8"	43-3/8"
18-3/4"	18-3/4"	18-3/4"	18-3/4"	18-3/4"	18-3/4"
20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"	20-1/2"
6"	6"	6"	8"	8"	8"
47"	47"	47"	47"	47"	47"
10-1/2"	10-1/2"	10-1/2"	10-1/2"	10-1/2"	10-1/2"
1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
45"	45"	45"	45"	45"	45"
8-3/8"	8-3/8"	8-3/8"	8-3/8"	8-3/8"	8-3/8"
1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
22-3/4"	22-3/4"	22-3/4"	22-3/4"	22-3/4"	22-3/4"
1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"
20"	20"	20"	20"	20"	20"
22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"	22-1/2"
1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
42"	42"	42"	42"	42"	42"

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Constructed and hydrostatically-tested in accordance with ASME Boiler Code, Section IV.