

Efficient Multi-Pass

Oil Fired, Chimney or Direct Vented, Cast Iron Water Boiler

- 87% AFUE, ENERGY STAR® certified
- ENERGY STAR
- Exceeds DOE-2021 requirements
- 3-pass cast iron sectional design
 Integral, pre-installed low water cut-off (LWCO)
- Beckett® and Carlin® burner options
- · Designed for ease of service
 - Reversible swing-away burner door
 - No target wall
 - Removable rear plates access flue passages
- Lifetime limited warranty
- Five sizes available, 0.60-1.60 GPH

Intelligent Controls Simplify Installation and Operation

Primary Ignition Controls

- · Advanced display and diagnostics
 - Honeywell® R7284 (for Beckett® burner builds)
 - Carlin® Pro-X[™] 70200 (for Carlin burner builds)

HydroStat® 3250 Three Function Hydronic Control

- Easy temperature control
- Low water cut off selectable auto or manual reset
- Fuel savings with thermal targeting or traditional outdoor reset capability
- Thermal pre-purge circulation uses latent heat before starting new heat cycle
- · Easy settings and monitoring
- Primary circulator control function
- LED active status indicators assist contractors and consumers
 - High temperature, LWCO, economy operation
- Dynamic digital display
 - Displays boiler supply temperature and outdoor temperature (if ODR installed)
 - Automatically displays set points during adjustments

EMP: Technical Information







Standard Equipment

- · Precision cast and machined sections
- Return blending manifold
- Powder coated steel jacket
- Insulated jacket (3")
- Reversable burner door
- Removable clean-out ports Mounted and wired controls
- 30 PSI relief valve
- Barometric draft regulator
- · Boiler drain valve
- Circulator, ECM
 - Taco® or Grundfos®
- · Primary ignition controls
- Honeywell® R7284 (Beckett®)
- Carlin® Pro-X™70200 (Carlin)
- HydroStat® 3250 hydronic control
- LWCO, auto or manual
- Temp control, economy operation
- Thermal targeting
- Thermal pre-purge
- Primary circulator control
- LED status indicators, digital display

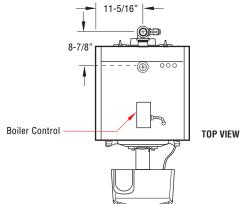
EMP Ratings & Specifications											
	Burner Capacity		DOE	Net AHRI		Minimum Chimney Requirements			Approx.		
Model	GPH	MBH ¹	Heating Cap. (MBH) ²	Ratings Water (MBH) ³	ENERGY STAR AFUE%	Round Dia (In.)	Rect. (In. x In.)	Height (Ft.)	Shipping Weight. (lbs.)		
EMP84E	0.60	84	74	64	87	6	8 x 8	15	430		
EMP115E	0.80	115	101	88	87	6	8 x 8	15	430		
EMP140E	1.00	140	123	107	87	6	8 x 8	15	545		
EMP182E	1.30	182	160	139	87	7	8 x 8	15	658		
EMP224E	1.60	224	197	171	87	7	8 x 8	15	771		

NOTE: Maximum working pressure: water: 30 PSI standard, 40 PSI optional

- 1. MBH refers to thousands of BTUs per hour
- Based on standard test procedure prescribed by the U.S. DOE at combustion conditions of 13.0% CO₂
- 3. Net AHRI ratings are based on a piping and pickup allowance of 1.15

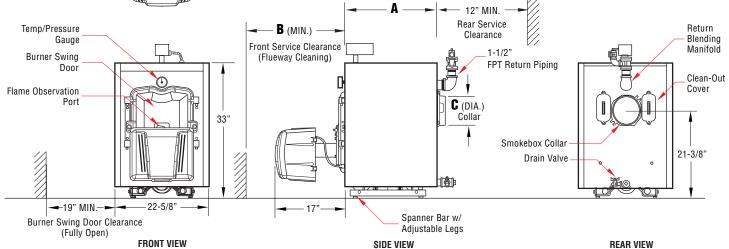
For direct vent applications, order boiler as "less burner", and add Beckett NX burner and DV kit from listings below

Direct Vent Burners & Kits							
Part No.	Description						
103896-03	Beckett NX for EMP140E						
103897-04	Beckett NX for EMP182E						
103898-05	Beckett NX for EMP224E						
102130-02	DV kit for EMP140E & EMP182E, 5"						
102130-03	DV kit for EMP224E, 6"						



Dimensions (Inches)									
Model	'A'	'В'	'C'						
EMP84E	16-5/8	24	5						
EMP115E	16-5/8	24	5						
EMP140E	22-5/8	24	6						
EMP182E	28-5/8	30	6						
EMP224E	34-5/8	36	7						





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