87% Efficient

Circulator included (Taco[®] or Grundfos[®]) **\$100+ value at no extra charge!**

Return blending manifold accelerates water mixing and protects heat exchanger



FNP[™] Efficient Multi-Pass

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

• 87% AFUE, ENERGY STAR[®] certified



- 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
- Seven sizes available, 0.60-2.40 GPH

Intelligent Controls Simplify Installation and Operation

Primary Ignition Controls

- Advanced display and diagnostics
 - Beckett® GeniSys® 7565 (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
- Taco[®] or Grundfos[®]
 Primary ignition controls
- Beckett[®] GeniSys[®] 7565 (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

11-5/16"

EMP Ratings & Specifications											
	Burner (DOE	Net AHRI Ratings	energy	Approximate					
Model	GPH	MBH ¹	Heating Cap. (MBH) ²	Water (MBH) ³	ENERGY STAR AFUE%	Shipping Weight. (Ibs.)					
EMP84E	0.60	84	74	64	87	430					
EMP115E	0.80	115	101	88	87	430					
EMP140E	1.00	140	123	107	87	545					
EMP182E	1.30	182	160	139	87	658					
EMP224E	1.60	224	197	171	87	771					
EMP280E	2.00	280	244	212	87	771					
EMP336E	2.40	336	289 ⁴	251	86⁵	884					

NOTE: Maximum working pressure: water : 30 PSI

standard, 40 PSI optional

1. MBH refers to thousands of BTUs per hour

Dimensions (Inches)

- 2. 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
- 4. Gross output
- 5. Thermal efficiency



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

Direct Vent Burners & Kits

		1	Model	'A'	'B'	°C,	Part No.	Description
Supply		TOP VIEW	EMP84E	16-5/8	24	5	112207-01	Beckett NX for EMP140E
			EMP115E	16-5/8	24	5	112208-01	Beckett NX for EMP182E Beckett NX for EMP224E
1-1/2" NPT			EMP140E	22-5/8	24	6	112209-01	
Boiler Control			EMP182E	28-5/8	30	6	102130-02	DV kit for EMP140E & EMP182E, 5"
Builer Culturu			EMP224E	34-5/8	36	7	102130-03	DV kit for EMP224E, 6"
	5		EMP280E	34-5/8	36	7		
			EMP336E	40-5/8	36	7		
Burner Swing			- B (MIN.) — Service Clearan ueway Cleaning)			nner Bar v stable Le	ar Service learance FPT Return DIA.) Ilar Smokebo Dra	Clean-Out Cover
FRONT VIEW			SIDE VIEW				REAR VIEW	

USBL19041-10ms 2/25 Printed in the U.S.A. www.usboiler.net



©2025 U.S. Boiler Company, Inc. - Lancaster, PA Phone: 1-888-432-8887