



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

Return blending manifold  
accelerates water mixing and  
protects heat exchanger



# EMP<sup>TM</sup> Efficient Multi-Pass

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



- 86-87% AFUE, five models are 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")
- Reversible 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

## EMP Ratings & Specifications

| Model   | Burner Capacity |                  | DOE Heating Cap. (MBH) <sup>2</sup> | Net AHRI Ratings Water (MBH) <sup>3</sup> | AFUE%           | Approximate Shipping Weight. (lbs.) |
|---------|-----------------|------------------|-------------------------------------|-------------------------------------------|-----------------|-------------------------------------|
|         | GPH             | MBH <sup>1</sup> |                                     |                                           |                 |                                     |
| 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                                       | 86              | 771                                 |
| EMP336E | 2.40            | 336              | 289 <sup>4</sup>                    | 251                                       | 86 <sup>5</sup> | 884                                 |

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

1. MBH refers to thousands of BTUs per hour

2. Based on standard test procedure prescribed by the U.S. DOE at combustion conditions of 13.0% CO<sub>2</sub>

3. Net AHRI ratings are based on a piping and pickup allowance of 1.15

4. Gross output

5. Thermal efficiency



\*ENERGY STAR certified



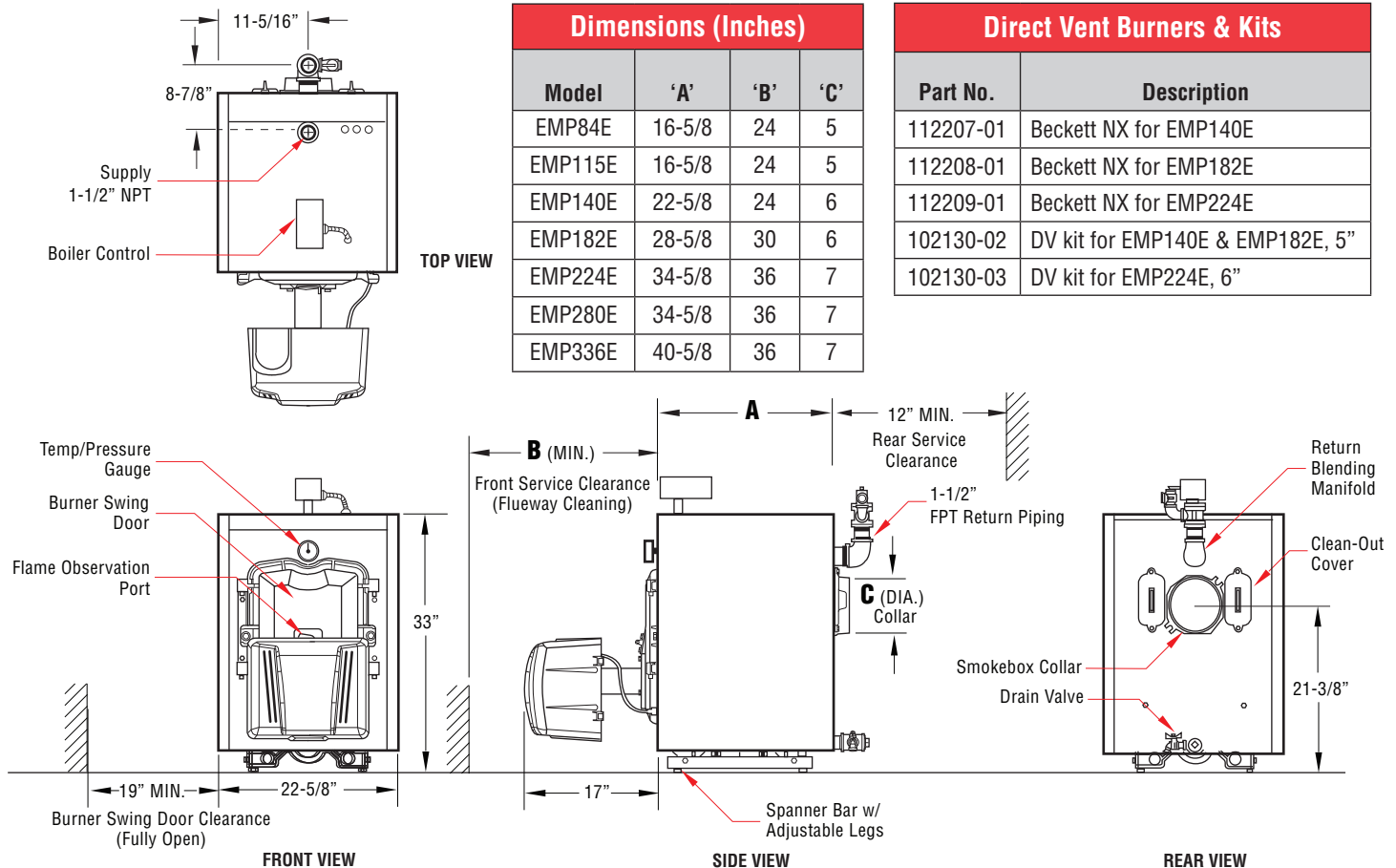
For direct vent applications, order boiler as "less burner", and add Beckett NX burner and DV kit from listings below

## Dimensions (Inches)

| Model   | 'A'    | 'B' | '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   |
| EMP280E | 34-5/8 | 36  | 7   |
| EMP336E | 40-5/8 | 36  | 7   |

## Direct Vent Burners & Kits

| Part No.  | Description                      |
|-----------|----------------------------------|
| 112207-01 | Beckett NX for EMP140E           |
| 112208-01 | Beckett NX for EMP182E           |
| 112209-01 | Beckett NX for EMP224E           |
| 102130-02 | DV kit for EMP140E & EMP182E, 5" |
| 102130-03 | DV kit for EMP224E, 6"           |



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