High-Efficient Direct Vent Wall Furnace

80%+ Efficient 20,000, 40,000 and 55,000 Btu Models

- Utilizes State-of-the-Art Technology for Added Fuel Efficiency
- Electronic Thermistor Thermostat Monitors Furnace Operation
- Optional Wall Thermostat Hook-up is Standard and Will Accept Any 24-Volt Wall Thermostat You Choose
- Total Comfort for a Fraction of the Cost of Electric Heat
- Sealed Combustion Maintains Indoor Air Quality
- Complete with Blower for Proper Circulation and Even Distribution of Heat
- Standard Unit Vents Through a Wall up to 10” Deep (Extended Horizontal and Vertical Vent Runs Available as Accessories for 20,000 and 40,000 Btu Heaters)
- Hot Surface Ignition
- Three Btu Sizes to Heat Any Space
- Peace of Mind Safety Features Built into Furnace
- Mobile Home Certified

Surround Yourself With Comfort
With sleek, slimline designs, soft corners and light grey finish, all three models blend in perfectly with any decor.

• More Efficient Heating Means More Savings
Gas can heat your home for a fraction of the cost of electric heat, and advanced gas heating technology makes these heaters 80+% efficient. Empire Comfort Systems’ High-Efficient Direct Vent Wall Heaters are available in the widest range of heating sizes to fit your special needs. The 20,000 Btu DV-20E is ideal for heating basements, family rooms or a combination of small rooms. The 40,000 Btu DV-40E and 55,000 Btu DV-55E are perfect for heating large family rooms, offices, apartments or even entire homes. All three models can be converted from either LP or natural gas and easily warm rooms up to 2,000 sq. feet. With the largest cfm (cubic feet/minute) fans in the industry, these furnaces are also the most effective units at delivering the warmth you desire. The 350 cfm fan in the DV-20E and DV-40E is unmatched, while the DV-55E’s 400 cfm fan delivers all the quiet, efficient heat you need. An electronic thermistor thermostat is standard on all models, keeping your room within plus or minus 1° of your selected temperature. Add up all these features, and you get more savings than you’d get with a conventional heater.
**Simplified Venting By Empire**

Empire High-Efficient Heaters offer more flexibility than most direct vent heaters. They can be installed on virtually any wall, as well as in any basement. Outside wall installation is simple and only requires silicone adhesive caulking around the air inlet tube. Each heater comes with one standard vent terminal for walls up to 10" thick, and venting options are available for walls up to 32" thick.

Every DV-20E, DV-40E, and DV-55E comes complete with a standard through-the-wall installation kit. For extended runs, vent options of 15' with a maximum of two elbows or 10' runs with three elbows are available on DV-20E and DV-40E.

**Direct Venting Means More Efficient Heat**

The energy-efficient method for heating your home actually starts outside. A state-of-the-art heat inducer pulls outside air into the burner compartment and then pushes the same air, now heated, through the unique tubular heat exchanger. A dual, centrifugal fan, air circulation system then blows room air across the tubular combustion chamber. This counterflow action starts at the top of the unit and exits at floor level. Since no room air is used for combustion, you’ll enjoy cleaner, healthier and warmer heat.

**Built-In Safety**

Safety is the most important thing we build into every Empire High-Efficient Heater. All three models feature a state-of-the-art electronic circuit board that monitors furnace operation and controls all on-board diagnostics. They also have an automatic shut-off valve. In the event of a power outage, the heaters will automatically restart when power returns.

**Simplified Diagnosis and Maintenance**

Each heater features a green LED light in the control compartment that provides easy diagnosis by service personnel.

**Empire’s Unmatched Warranty**

It only makes sense that we’d back these superior heaters with a superior warranty. These high-efficient heaters are guaranteed by a warranty that’s unmatched in the industry. The combustion chamber carries a 10-year limited warranty and all other parts carry a 5-year limited warranty with a 2-year limited labor warranty.
**Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>DV-20E</th>
<th>DV-40E</th>
<th>DV-55E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Cabinet and Front Panels</td>
<td>Light Grey</td>
<td>Light Grey</td>
<td>Light Grey</td>
</tr>
<tr>
<td>Btu Input</td>
<td>20,000</td>
<td>40,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Btu Output</td>
<td>16,300</td>
<td>32,600</td>
<td>44,825</td>
</tr>
</tbody>
</table>

**Overall Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>Width</th>
<th>Depth</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>37&quot;</td>
<td>15 ¾&quot;</td>
<td>26&quot;</td>
</tr>
</tbody>
</table>

**Temperature Control**

- Electronic Control: Yes
- Blower, tangential type, one speed: 350 cfm

**Minimum Clearance to Combustible From:**

- Top: 10"
- Each Side: 3"
- Left Side: 3"
- Right Side: 3"

**Gas Inlet**

- Type of Gas (State on Order): Natural or LP
- Iron Pipe Size (N.P.T.): 1⁄2"

**Venting**

- Wall Depth:
  - Minimum: 2"
  - Maximum: 10"
- See accessories for thicker walls.
- Vent Opening in Wall: 31⁄4"

**Venting Options**

- Maximum Length:
  - 15’ with 2 Elbows: Yes
  - 10’ with 3 Elbows: No

**Accessories** (State on Order)

- Intake/Exhaust Extension Kits:
  - DVE-1: 54” Kit with 2 Elbows
  - DVE-2: 54” Kit for Extended Vent Runs
  - DVT-2: Extended Vent Terminal
  - DVP-1: 24-Volt Thermostat

**Safety Controls**

- Automatic Shut-off for Main Burner
- Over Temperature Safety Limit Switch

**Warranty**

Combustion chamber carries a 10-year limited warranty. All other parts carry a 5-year limited warranty with a 2-year limited labor warranty.

**For Your Safety**

- Installation and repair should be done by a qualified service person.

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**Standard Intake/Exhaust Venting**

For up to 10” thick wall.

- **DVT-2, EXTENDED VENT TERMINAL**
  - Replaces standard vent assembly for up to 32” thick maximum wall.
  - No Note: DVE-1 and DVE-2 are not available for DV-55E.

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**Notes:**

- Empire has a policy of constantly improving quality and performance of its appliances, therefore, materials and specifications are subject to change without notice.

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**Empire Comfort Systems**

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