Helix VX

- Gas-Fired, Wall Hung Modulating Condensing Boiler
  - 95% AFUE
  - 5:1 Turn Down Ratio
  - VX Vertical Heat Exchanger
    - Patent Pending
    - Low Maintenance, Self-Cleaning
    - Designed in the U.S., for the U.S.
    - 150 psi MAWP
  - Approved for PVC, CPVC and Polypropylene venting
  - FREE 2-Year Parts & Labor Warranty*

*Unit must be registered within 60 days from the date of original installation. All terms of Trinity Extended Service Agreement apply.
Innovative.
The heat exchanger is the critical component of any boiler and is primarily responsible for efficiency and durability. At the heart of the 95% efficient VX is the Helix family’s innovative, vertically mounted helical fin tube heat exchanger, made of 316L/444 stainless steel. The fins are laser welded onto the stainless tube resulting in greater strength and heat transfer capabilities.

Efficient.
The Helix VX is 95% AFUE (Annual Fuel Utilization Efficiency) and has been awarded Energy Star Most Efficient status. The VX's advanced control automatically regulates boiler operation to ensure you are using the least amount of fuel possible.

The VX's control adjusts both the amount of gas being burned (modulation) as well as the boiler water temperature (outdoor reset). Gas burner modulation reduces your fuel cost by adjusting the fuel burned to meet the actual demands of your heating system. Rarely will your home require the full capacity of the VX and burning more gas than needed is bad for your budget and the environment. Outdoor Temperature Reset adjusts the boiler water temperature based on outdoor conditions. During cold periods, water temperature is increased. As it gets warmer, water temperature is lowered. Varying the water temperature reduces your fuel costs.

The increased efficiency of the Dunkirk Helix VX could save up to 40% on heating bills annually.*

The 95% AFUE efficiency of the Helix VX allows it to qualify for State, Federal and local Utility company rebates.**

The average water heater is rated at .59 EF - Energy Factor, measure of the useful energy coming out of your water heater divided by the amount of energy consumed to heat domestic water. The typical water heater accounts for 18% of your fuel bill. One of the conveniences of heating with a boiler is the ability to use it to generate your domestic hot water. By pairing your 95% efficient VX with an H2O indirect water heater tank you will reduce your fuel consumption for heating hot water, increase the amount of hot water available and be protected with a lifetime tank warranty. Ask your heating contractor to replace your inefficient standalone hot water tank with an H2O.

Dependable.
Dunkirk's Stainless Steel Heat Exchanger
• ASME certified to operate in applications up to 150 psi – though the typical residential application is around 15 psi
• Every heat exchanger is tested up to 375 psi; this is 25 times the typical residential boiler system operating pressure
• Proven reliability with tens of thousands of successful U.S. boiler installations

Helix Quality
• Every boiler is test-fired at the factory
• Complete combustion test is performed and a computer printout of the results are shipped with every boiler to ensure proper commissioning

15 year Limited Manufacturer's Warranty
The VX heat exchanger is simply the finest ever designed and as such we provide the strongest factory warranty available. An additional first year leak-free heat exchanger coverage provides the original purchaser the right to select a new replacement VX boiler or heat exchanger at their choice, and receive a labor allowance of $500.00 for the servicing contractor.

*Individual savings may vary.  ** Visit our website at www.dunkirk.com for rebate information and qualification details. These valuable rebates help offset the installation costs.
“The Helix VX wall hung, modulating condensing boiler is the latest addition to Dunkirk’s Helix boiler family.”

**Key Features**

- **Gas Supply**
  - Top Pipe connection with built in drip leg saves material & time

- **Heat Exchanger**
  - Patent Pending
  - 316L/444 stainless steel fin tube
  - Vertically mounted
  - Self-cleaning
  - 150 psi MAWP
  - Designed in the U.S., for the U.S.

- **Polypropylene Flue Collector**
  - Corrosion resistant

- **Electrical Wiring**
  - Easy Access / Protected Terminal Strip

**H2O Indirect Water Heater**

- All 316 L Stainless Construction - no dissimilar metals to corrode
- Top Piping Connection saves material/time
- Stainless Dip Tube
- Extruded Stainless Steel Wall
- Coil Stand Off eliminates shipping damage

- Equipped with T&P and Relief Valves
- Less than 1/2 F degree loss per hour
- Smooth coil design eliminates sediment collection
- Limited Lifetime Warranty

**Advanced Controls**

- 5:1 turn down ratio
- Easy to understand English text display
- Outdoor reset maximizes fuel economy
- Priority domestic hot water meets changing demands
- Connections for Primary pump, CH pump, and DHW pump
- Automatically manages up to 16 units in Multiple Boiler System

**Factory Tested**

- Certified to ASME standards in ECR’s factory

*Optional stand

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There are two basic settings; one for Central Heating and one for Domestic Hot Water. Both have factory pre-sets for standard installation and require no further adjustment. If desired, adjusting the settings is as easy as pushing a button!

When using the Outdoor Air Sensor the Central heat setpoint automatically adjusts itself!
Dunkirk VX Gas-Fired Modulating Condensing Hot Water Boiler

### Dimensional Diagram

#### Models
<table>
<thead>
<tr>
<th>Dimensional Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT</td>
</tr>
<tr>
<td>TOP</td>
</tr>
<tr>
<td>BOTTOM</td>
</tr>
<tr>
<td>BACK</td>
</tr>
</tbody>
</table>

#### Clearances

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Combustible Materials (Required)</th>
<th>Service (Required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>0&quot; (0 cm)</td>
<td>14&quot; (36 cm)</td>
</tr>
<tr>
<td>Left Side</td>
<td>0&quot; (0 cm)</td>
<td>0&quot; (0 cm)</td>
</tr>
<tr>
<td>Right Side</td>
<td>0&quot; (0 cm)</td>
<td>0&quot; (0 cm)</td>
</tr>
<tr>
<td>Front</td>
<td>0&quot; (0 cm)</td>
<td>6&quot; (16 cm)</td>
</tr>
<tr>
<td>Back</td>
<td>0&quot; (0 cm)</td>
<td>0&quot; (0 cm)</td>
</tr>
<tr>
<td>Bottom</td>
<td>0&quot; (0 cm)</td>
<td>12&quot; (32 cm)</td>
</tr>
<tr>
<td>Combustion</td>
<td>0&quot; (0 cm)</td>
<td>6&quot; (16 cm)</td>
</tr>
<tr>
<td>Hot Water Piping</td>
<td>See Local Code</td>
<td>6&quot; (16 cm)</td>
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</table>

#### Combustion Air & Vent Pipe Equivalent Length

<table>
<thead>
<tr>
<th>(Schedule 40 PVC)</th>
<th>2&quot; Pipe ( Schedule 40 PVC)</th>
<th>3&quot; Pipe (Schedule 40 PVC)</th>
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</thead>
<tbody>
<tr>
<td>Minimum Length</td>
<td>6 Ft. (1.8 m)</td>
<td>6 Ft. (1.8 m)</td>
</tr>
<tr>
<td>Maximum Length</td>
<td>100 Ft. (30.5 m)</td>
<td>100 Ft. (30.5 m)</td>
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</table>

#### Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Models</th>
<th>Width &quot;A&quot;</th>
<th>Height &quot;B&quot;</th>
<th>Depth &quot;C&quot;</th>
<th>Bracket &quot;D&quot;</th>
<th>Ht. w/Piping &quot;E&quot;</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>050</td>
<td>20&quot;</td>
<td>508 mm</td>
<td>14.75&quot;</td>
<td>357 mm</td>
<td>781 mm</td>
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<tr>
<td></td>
<td>075</td>
<td>23&quot;</td>
<td>584 mm</td>
<td>16.3&quot;</td>
<td>414 mm</td>
<td>1035 mm</td>
</tr>
<tr>
<td></td>
<td>100</td>
<td>23&quot;</td>
<td>595 mm</td>
<td>16.3&quot;</td>
<td>414 mm</td>
<td>1035 mm</td>
</tr>
<tr>
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<td>150</td>
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<td>16.3&quot;</td>
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<td>1035 mm</td>
</tr>
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#### Options

- LP Conversion Kit, Concentric Vent Kit (2" and 3"), System Sensor (For Multiple Boiler Applications)

#### Certifications

- AHRi Certified
- ASME
- UL

#### All ratings and specifications subject to change.

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