Helix VLT

- Gas-Fired, Wall Hung Modulating Condensing Boiler
  - 95% AFUE
  - Built-In Primary/Secondary Piping cuts installation time in half
  - Built-In Low Water Cut Off (LWCO)
  - 5:1 Turn Down Ratio
  - Innovative Heat Exchanger
    - Patent Pending
    - Low Maintenance, Self-Cleaning
    - Designed in the U.S., for the U.S.
    - 150 psi MAWP
  - Warranty Coverage
    - 15-Year Limited Heat Exchanger
    - FREE 2-Year Parts & Labor Limited Warranty*
  - Innovative American Manufacturing

* Unit must be registered within 60 days from the date of original installation. All terms of Trinity Extended Service Agreement apply.
Innovative

Because we know what it takes to make a good thing even better...

Dunkirk is proud to bring you the most efficient, forward-thinking home heating solutions available today like the Dunkirk Helix VLT. Dunkirk’s “Vertical Laser Tube,” modulating condensing boiler features a revolutionary, vertically mounted helical fin tube heat exchanger, made of 316L/444 stainless steel. This self-cleaning design features wide, smooth waterways that help remove hard water deposits and prevent scaling.

With the recent addition of a 299 MBH capacity, the Dunkirk Helix VLT offers even more application flexibility with six modulating capacities from 50 to 299 MBH. Plus all Helix VLT models can now be vented using PVC, CPVC or Polypropylene.

Consider pairing a Dunkirk Helix VLT with an H2O Series Stainless Steel Indirect Water Heater for a perfect home heating match!

Dunkirk H2O Indirect Water Heaters are available in 30 to 150 gallon capacities and feature 316L stainless steel construction and top connections for an easy installation. The H2O is so well insulated that water will lose only a half-degree for every hour on standby. The H2O’s smooth coil design prevents sediment build-up. This durable, efficient water heater is a great value.

Dependable

Dunkirk holds our products to the highest quality standards and we stand behind them...

Each Helix VLT boiler produced is subjected to a rigorous set of quality control checks before it leaves our factory. Dunkirk test fires each boiler and checks all of the electrical, plumbing, pressure vessel and combustion set up parameters - fine tuning the product’s performance prior to approving the unit for shipment. We even include the final computer generated results for your professional contractor to reference while completing your installation.

Since we go the extra mile to deliver a quality product we offer not only a 15-year limited manufacturer’s warranty, we also back it up with an industry-leading first year $500 Heat Exchanger Labor Warranty.

Our H2O Single Coil Indirect Water Heaters feature a limited lifetime warranty and optional Comfort Plus Parts & Labor warranties are available for all our products.

Efficient

Just look at what you could be saving annually...

Add up the savings with a Helix VLT:

+ 95% AFUE
+ Sealed Combustion
+ Outdoor Temperature Reset*

The increased efficiency of the VLT could save you up to 40% on your heating bill each year.

If you pay $1,800 annually to heat your home, you could save as much as $720 per year.

= That’s $3,600 over 5 years!**

* A factory standard Outdoor Temperature Reset adjusts water supply temperature for best possible fuel economy based on actual seasonal conditions.
** Individual savings may vary.
Built-in primary/secondary piping saves installation time and space

“Dunkirk installed both primary and secondary pipe work inside the actual unit. I couldn’t believe it, it really is as simple as piping your Supply and Return with one pump, not two because the other one is installed in the Helix already, right in the boiler!”

- Sean Rockland County, NY
### Dunkirk VLT Natural or Propane Gas-Fired Modulating Condensing Hot Water Boiler

#### Dimensions/Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Max.</th>
<th>Min.</th>
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<tbody>
<tr>
<td>DKVLT-050</td>
<td>50</td>
<td>10</td>
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<tr>
<td>DKVLT-075</td>
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<td>DKVLT-150</td>
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<td>30</td>
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<tr>
<td>DKVLT-200</td>
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<td>40</td>
</tr>
<tr>
<td>DKVLT-299</td>
<td>299</td>
<td>60</td>
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</tbody>
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#### Combustible Materials (Required) (5)

- **Service (5)**
  - Top: 0" (0 cm) 14" (36 cm)
  - Left Side: 0" (0 cm) 0" (0 cm)
  - Right Side: 0" (0 cm) 0" (0 cm)
  - Front: 0" (0 cm) 6" (16 cm)
  - Back: 0" (0 cm) 0" (0 cm)
  - Bottom: 0" (0 cm) 12" (32 cm)

#### Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)

- **Min. Length**
  - 2" Pipe 050: 6 Ft. (1.8 m)
  - 2" Pipe 075/100: 6 Ft. (1.8 m)
  - 3" Pipe 150/200: 6 Ft. (1.8 m)
  - 3" Pipe 299: 6 Ft. (1.8 m)
  - 4" Pipe 299: 6 Ft. (1.8 m)

- **Max. Length**
  - 2" Pipe 050: 100 Ft. (30.5 m)
  - 2" Pipe 075/100: 50 Ft. (15.2 m)
  - 3" Pipe 150/200: 100 Ft. (30.5 m)
  - 3" Pipe 299: 100 Ft. (30.5 m)
  - 4" Pipe 299: 25 Ft. (7.7 m)

#### Connections

- **Electrical**
  - 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)

- **Water Content**
  - 050/075/100: 1.1 Gallons, 150/200/299: 1.8 Gallons

#### Standard Equipment

- **Boiler Control Module**: Automatic Line Voltage/Intermittent Direct Spark Ignition/Modulating with a 5:1 combustion turn down ratio. For multiple boiler applications – the control module can stage up 16 boilers.
- **User Display Interface**: Easy programming with text display. Outdoor Temperature Sensor included.
- **Heat Exchanger**: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass.
- **Combustion**: Gas Valve with Premix Venturi and Blower, Durable Stainless Steel Mesh Modulating Burner with 5:1 turn down ratio, Direct Spark Igniter, Flame Sensor and LP Conversion Kit included.
- **Electrical**: Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.
- **Wall Mounted**: Bracket included.
- **Combustible Materials**: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.

#### Certifications

- **AHRI Certified**
  - 150 psi MAWP
  - Made in the USA

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All ratings and specifications subject to change.

PN 240008986 Rev. 2/17

Dunkirk VLT Natural or Propane Gas-Fired Modulating Condensing Hot Water Boiler

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