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
  - 5:1 Turn Down Ratio
  - Innovative Heat Exchanger
    - Low Maintenance, Self-Cleaning
    - Designed in the U.S., for the U.S.
    - 150 psi MAWP

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 tests 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 temperatures 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 is installed in the Helix already, right in the boiler!”

- Sean McCormack
BMC Plumbing & Heating
Rockland County, NY

Helix VLT 50-200 MBH

- Integral Condensate Trap
  - Large diameter
  - Quick connect to condensate drain or pump

- Non-Metallic Flue Collector
  - Corrosion resistant

Heat Exchanger

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

Helix VLT 299 MBH

299 Dual Diameter Heat Exchanger with polypropylene flue collector

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

LWCO

- Factory wired and installed
- Probe-type with test button
- Meets code where required
- Provides added protection

Control Features

- 5:1 Turn down ratio
- Easy to understand English text display
- Outdoor reset maximizes fuel economy
- Priority domestic hot water meets changing demands
- Integrated multiple boiler control eliminates the need for costly multiple boiler controls

Quick Connect

- Simplified electrical connection and removable terminal block make wiring easy

Top Connections

- Approved for PVC, CPVC and Polypropylene venting

Bottom Connections

- Replacement ready with 1-1/4” piping connections and low pressure drop
  - no high head pump required

Wall Mount Bracket

- Bracket included
- Wall mount installation saves space
Dunkirk VLT Natural or Propane Gas-Fired Modulating Condensing Hot Water Boiler

Dimensions/Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>Boiler Input Rate (MBH)</th>
<th>Heating Capacity (MBH)</th>
<th>Net AHRI Rating, Water (MBH)</th>
<th>AFUE %</th>
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</table>

All of the DKVLT models have an AFUE of 95% and are ENERGY STAR rated products that meet the criteria for 2015 Most Efficient.

(1) 1000 Btuhr (British Thermal Units Per Hour)
(2) Heating Capacity and AFUE (Annual Fuel Utilization Efficiency) are based on DOE (Department of Energy) test procedures.
(3) Net AHRI Ratings based on piping and pickup allowance of 1.15. Contact Technical Support before selecting boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

General Information

Connections

- Return/Supply Water
- Gas In
- Condensate Drain

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

Certifications

- AHRI 150 psi MAWP
- ASME

Wall Mounted: Bracket included.
Boiler Control Module: Automatic Line Voltage/Interruption Direct Spark Ignition/Modulating with a 5:1 combustion turn down ratio. For multiple boiler applications – the control module can stage up to 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: Detachable Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.
Other: Factory installed probe-type Low Water Cut Off with test feature, 30 PSI Safety Relief Valve, Boiler Drain Valve and Condensate Drain with built in trap.

Options

Central Heating Pump available for 50 to 200 MBH only ( Taco 007 or Grundfos UP15-42F), Concentric Vent Kit (2” and 3”), System Sensor (For Multiple Boiler Applications)

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