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

<table>
<thead>
<tr>
<th>Dimensions/Weights</th>
<th>Model</th>
<th>Boiler Input Rate (MBH)</th>
<th>Heating Capacity (MBH)</th>
<th>Net AHRI Rating. Watts (MBH)</th>
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</thead>
<tbody>
<tr>
<td>DVL/2T-020</td>
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</table>

* The DVL/2T-090 and DVL/2T-095 have an AFUE of 94% and are DVL/2T-090/095 net products but they do not meet the 90% or higher criteria for 2015 Most Efficient.

## General Information

- **Clearances (Required alternatives measured from floor).**
  - Top: 0" (0 cm)
  - Right Side: 0" (0 cm)
  - Left Side: 0" (0 cm)
  - Rear: 0" (0 cm)
  - Bottom: 0" (0 cm)

- **Combustion Air/ Vent Pipe Equivalent Length (Schedule 40 PVC).**
  - Min. Length: 6 FT (1.8 m)
  - Max. Length: 150 FT (45.7 m)

- **Connections:**
  - Return/Supply Water
  - Gas In
  - Condensate Drain
  - 1.1 CFM. NPT
  - 1.5 NPT

- **Water Content:**
  - 0.02 GALLONS

- **Load Matched:**
  - Boiler Control Module: Automatic Line Voltage/Sensor Direct Spark Ignition Modulating with 1-10 variable input.
  - Multi boiler application – control module can stage up to 18 boilers. Lower Load Interface: Easy programming with text display. Outdoor Temperature Sensor included.
  - High Efficiency: 61% / 118% Stainless Steel Evaporator with Flue Gas Slit Header.
  - Rear Primary/Secondary曼管Modulating Piping and Piping. Cooling: Gas Valve with Premise Short and Slow, Durable Stainless Steel Mesh Modulating Burner with 1-10 input. Slow Flow Ignition, Flame Sensor and LP Compression Air included.
  - Electrical: Durable Low Voltage Terminal Strip, High Voltage Junction Box and Transformer. Other: Factory-installed Prototype Low Water Cut Off with built-in NIST, 30 PSI Pressure Relief Valve, Boiler Drain Valve and Condensate Drain with built-in trap.

- **Options:** Central Heating Pump available for 50 to 200 MBH only (Dvlt 507-250). Concentric Vent Kit (2" and 3") System Sensor (For Multiple Boiler Applications).

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**Helix VLT**

- **Gas-Fired, Wall Hung**
- **Modulating Condensing Boiler**
- **Up to 95% AFUE**
- **Built-In Primary/Secondary Piping**
- **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

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**Dunkirk VLT**

- **Innovative. Efficient. Dependable. Dunkirk.**
  - P.O. Box 4720
  - Utica, New York 13564
  - Tel: 315.797.1390
  - Fax: 315.796.3782
  - Contractor Assistance:
  - 800.328.8470

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**PN2400008986 Rev 2/14**
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 289 MBH capacity, the Dunkirk Helix VLT offers even more application flexibility with six modulating capacities from 50 to 289 MBH. Plus all Helix VLT models can now be vented using PVC, CPVC or Polypropylene.

Consider pairing a Dunkirk Helix VLT with an H2O 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 fire 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 10-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:

* Up to 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 $3,800 annually to heat your home, you could save as much as $760 per year.

That's $3,600 over 5 years!*

* Savings may vary based on temperature, fuel etc.

H2O (40 gal)

HeliX VLT 190 MBH

Heat exchanger
- 316L/444 stainless steel fin tube
- Vertically mounted
- Self-cleaning
- 190 psi MAXP
- Designed in the U.S., for the U.S.

Non-metallic Flow Collector
- Corrosion resistant

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

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

Central Features
- 5.1 Turn down ratio
- Easy to understand English text display
- Outdoor reset maximizes fuel economy
- Priority domestic hot water reheat damping 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
- Replacement ready with 1-1/4” piping connections and line pressure drops
- no high head pump required

Bottom Connections
- Bracket included
- Wall mount installation saves space

Wall Mount Bracket

Dunkirk installed both primary and secondary piping inside the actual unit, couldn’t believe it. Made it as简单 as piping your Radiant and forget about me pump, and now because the other is installed in the Helix already, tight the bubble.”

Sean McCarrick
BMC Plumbing & Heating
Riverview County, MI
Innovative

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With the recent addition of a 290 MBH capacity, the Dunkirk Helix VLT offers even more application flexibility with six modulating capacities from 60 to 290 MBH. Plus all Helix VLT models can be vented using PVC, CPVC or Polypropylene.

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

Dunkirk H2O Indirect Water Heaters are available in 30 to 150 galon 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 fire 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:

* Up to 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 $3,000 annually to heat your home, you could save as much as $720 per year.

That’s $3,600 over 5 years!”

* Estimated based on a 200,000 BTU/hour boiler at 70°F outside temperature heat recovery of 95%. (does not include gas or electricity power)
* Individual savings may vary.
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**Dimensions/Weights**

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<th>Net AHRI Rating, Water (MBH)</th>
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<tbody>
<tr>
<td>DXVL7-025</td>
<td>50 10 40</td>
<td>40 40</td>
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<tr>
<td>DXVL7-075</td>
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<td>DXVL7-100</td>
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</table>

* The DXVL7-025 and DXVL7-075 have an AFUE of 95% and are DXVL7-025/075 heater products but do not meet the 92% criteria for 2013 Most Efficient.

**General Information**

- Contractor Assistance: 800.325.5479
- Tel: 315.797.1310
- Fax: 315.797.3762

**Clearances**

- Top: 0” (0 cm)
- Left Side: 0” (0 cm)
- Right Side: 0” (0 cm)
- Front: 0” (0 cm)
- Back: 0” (0 cm)
- Bottom: 0” (0 cm)

**Combustion Air & Vent Pipe Length (Schedule 40 PVC)**

<table>
<thead>
<tr>
<th>Min. Length</th>
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**Connections**

- Return/Supply Water: 1-1/2” NPT
- Condensate Drain: 1-1/2” NPT

**Water Content**

- 0.509/0.500 = 0.1 Gallons, 1.55/1.50 = 1.8 Gallons

**Standard Equipment**

- Boiler Control Module: Automatic Line Voltage/Intermittent Direct Spark Ignition/Modulating with 5:1 combuster turndown ratio. For multiple boiler applications, the control module can stage up 18 boilers.
- User Display Interface: Easy programming with text display. Outdoor Temperature Sensor included.
- Heat Exchanger: High Grade 316L Stainless Steel Fin & Tube with Flue Sight Glass.

**Gas Valve**

- Electronic: Digital Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.
- Other: Factory installed prototype Low Water Cut Off with fast running, 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. (Dco 007 or Grundfos UP15-40)
- Concentric Vent Kit (7” and 8”), System Sensor (For Multiple Boiler Applications)

**Certificates**

- USGBC LEED Gold
- ENSA
- US
- Audited
- ASME
- 120 psi MAWP

**Dimensions**

- Width: 24” (610 mm)
- Height: 54” (1372 mm)
- Depth: 24” (610 mm)
- Weight: 120 lbs (54 kg)

**PN2400008B6 Rev 2/14**