



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
 - Low Maintenance, Self-Cleaning
 - Designed in the U.S., for the U.S.
 - 150 psi MAWP
 - 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

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.

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

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.

Helix VLT 100 MBH







H2O (40 gal)





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 Rockland County, NY





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

Non-Metallic Flue Collector



- Corrosion resistant

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

- Large diameter

drain or pump



Integral Condensate Trap -

- Quick connect to condensate

- 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

	Fron A Top	B	DKVLT-050 DKVLT-075 DKVLT-100 DKVLT-150 DKVLT-200 DKVLT-299 All of the DKVLT models hav (1) 1000 Btu/hr (British Then (2) Heating Capacity and AF (3) Net AHRI Ratings based requirements, such as intern General Informatio	mal Units Per Hour) UE (Annual Fuel Utiliz on piping and pickup nittent system operation	ation Efficience	cy) are based on	(M	46 69 91 139 185 273 he criteria for 2015 Mos	(MBH) (1)(3) 40 60 79 121 161 237	95.0 95.0 95.0 95.0						
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	— А		requirements, such as intern	nittent system operation		15 Contact Tech	DOE (Departmen	of Energy) test proced	ures.							
	Тор		General Information	(See Installation, C				ore selecting boiler for i	nstallations having unusu	al piping and pick						
					Operation and	Maintenance Ma	nual for complete	instructions)								
	06					Combustible Materials (Required) (4)		Service (5)								
	0 6		Clearances	Тор			0" (0 cm)		14" (36 cm)							
			(4) Required	Left Side			0" (0 cm)		0" (0 cm)							
	c		distances measured from	Right Side			0" (0 cm)		0" (0 cm)							
			boiler.	Front			0" (0 cm)		6" (16 cm)							
			(5) Service, proper operation clearance	Back			0" (0 cm)		0" (0 cm)							
	Botto	m	recommendation.	Bottom			0" (0 cm)		12" (32 cm)							
	****** - 0			Combustion Air/Vent Piping			0" (0 cm)		6" (16 cm)							
(Hot Water Piping			See Local Code		6" (16 cm)							
					2" Pipe 050	2" Pipe 075/100	3" Pipe		3" Pipe 299	4" Pipe 299						
_	Bac		Combustion Air & Vent Pipe	Min. Length	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)						
T =			Equivalent Length (Schedule 40 PVC)	Max. Length	100 Ft. (30.5 m)	50 Ft. (15.2 m)	100 Ft. (30.5 m	100 Ft. (30.5 m)	25 Ft. (7.7 m)	100 Ft. (30.5 m)						
	•			Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.												
P	D E		Connections	Return/Supply Water Gas In					Condensate Drain							
			050/075/100	11.7			NPT 3/4" N									
			150/200/299	1-1/4" NF	РТ	3/4" ا	NPT 3/4" NPT									
			Electrical	.	0 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)											
			Water Content	· · · · · · · · · · · · · · · · · · ·	, ,		9 - 1.8 Gallons									
Dimensions				-Wall Mounted: Bracket includedBoiler 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.												
	050	150	\dashv						I module can stage i mperature Sensor ir							
dels	075 100	150 200 200 299	Standard Equipment	-Heat Exchange Built-in Primary	er: High gra //Secondar	ade 316L/444 y Manifold Pir	Stainless Ste ping and Pum	el Fin Coil with Flai o.	me Sight Glass.							
dth	20" 508 mm	23" 584 mm		-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 includedElectrical: Detachable Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.												
ight	31" 787 mm	42" 1067 mm														
pth	14-3/4" 375 mm	16" 18.4 406 mm 467 m	-Other: Factory installed probe-type Low Water Cut Off with test feature, 30 PSI Safety Relief Valv Drain Valve and Condensate Drain with built in trap.							t Valve, Boiler						
	27.7" 704 mm 32"	38.7" 983 mm	Options Options Concentric Vent Kit (2" and 3"), System Sensor (For Multiple Boiler Applications)													
v/Piping	32" 813 mm	43" 1092 mm														
ip ıt.		**************************************		energy	(SP ®	DESIGN	150 psi MAWP	A _{S_{ME}}	CER CER	TIFIED®						

All ratings and specifications subject to change.

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