

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.

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Innovative. Efficient. Dependable. Dunkirk.

Most Efficient **2017**





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 H20 Series Stainless Steel Indirect Water Heater for a perfect home heating match!

Dunkirk H20 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 H20 is so well insulated that water will lose only a half-degree for every hour on standby. The H20'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 savinos 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 perfomance 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



H20 (40 gal)



Dimensions/Weights			Model	Boiler Input Rate (MBH) ⁽¹⁾			Heating Capacity		Net AHRI Rating, Water AFUE	AFUE % ^{(;}	
		Max.		Mi	in.	(MB	H) ⁽¹⁾⁽²⁾	(MBH) ⁽¹⁾⁽³⁾			
Front			DKVLT-050	50 10		46		40	95.0		
			DKVLT-075	75 15		69		60	95.0		
		DKVLT-100	100 20		91		79	95.0			
B			DKVLT-150	150 30		139		121	95.0		
			DKVLT-200	200 40			185	161	95.0		
			DKVLT-299	299 60		273		237	95.0		
			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 Btu/hr (British Thermal Units Per Hour)								
			(2) Heating Capacity and AFUE (Annual Fuel Utilization Efficiency) are based on DOE (Department of Energy) test procedures.								
		\bot	(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 pirequirements, such as intermittent system operation, extensive piping systems, etc.								
	— A —		General Informatio	n (See Installation, 0	Operation and M	laintenance Mar	nual for complete ir	structions)			
Top C C Bottom				Тор			Combustible Materials (Required) (4) 0" (0 cm)		Service ⁽⁵⁾		
			Clearances (4) Required distances measured from								
				Left Side			0" (0 cm)		0" (0 cm)		
				Right Side			0" (0 cm)		0" (0 cm)		
			boiler.	Front			0" (0 cm)		6" (16 cm)		
			(5) Service, proper operation clearance recommendation.	Back			0" (0 cm)		0" (0 cm)		
				Bottom			0" (0 cm)		12" (32 cm)		
				Combustion Air/Vent Piping			0" (0 cm)		6" (16 cm)		
				Hot Water Pig			See Loo	al Code	6" (16		
Ö Ö		Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)	Min. Length	2" Pipe	2" Pipe	3" Pipe	3" Pipe	3" Pipe	4" Pipe		
				050	075/100	075/100	150/200	299	299		
				6 Ft.	6 Ft.	6 Ft.	6 Ft.	6 Ft.	6 Ft.		
				(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)		
			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)		
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<u> </u> .	· []			Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.							
D E			Connections	Return/Supply Water Gas In Condensate Drain							
		050/075/100	1-1/4" NF	1-1/4" NPT 1/2" NPT				3/4" NPT			
			150/200/299	1-1/4" NF	РΤ	3/4" №	NPT 3/4" NPT				
			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							
Dimensions dels 050 075 100 150 200 299 dth 20° 23°			Standard Equipment	-Wall Mounted: Bracket included. -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. Built-in Primary/Secondary Manifold Piping and Pump. Combustion: Case Value with Bramiz Vonturi and Blower. Durable Stainless Steel Mach Medulating							
50	8 mm 584 m	m	ļ	-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.							
	31" 42" 7 mm 1067 n	nm		-Electrical: Low Voltage Terminal Strip, High Voltage Junction Box and Transformer.							
	I-3/4" 16" 5 mm 406 mm	18.4" 467 mm		-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.							
	27.7" 38.7" 704 mm 983 mm Options Central Heating Pump available for 50 to 200 MBH only (Taco 007 or Grundfos UP16 Concentric Vent Kit (2" and 3"), System Sensor (For Multiple Boiler Applications)										
	32" 43" 3 mm 1092 m	nm		50		- ,, 5,50011					
	Weights]		/	DESIGA	A				
. 5	1 lbs. ~182 lbs. 0 kg 83 kg	~225 lbs. 102 kg	Certifications	Ø	®		CASME			TIFIED ™ directory.org	
	1 lbs. ~157 lbs. 1 kg 71 kg	~195 lbs. 89 kg				RTIFLE®	⊓ 150 psi MA	NP			



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