

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





HELIX

Dunkírk 🕫

A 🖸 in

www.dunkirk.com



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)





Helix VLT 50-200 MBH -



Integral Condensate Trap 🔺

- Large diameter

LWCO

- Quick connect to condensate drain or pump

> - Factory wired and installed - Probe-type with test button

- Meets code where required

- Provides added protection

Top Connections

- Approved for PVC, CPVC and

Polypropylene venting



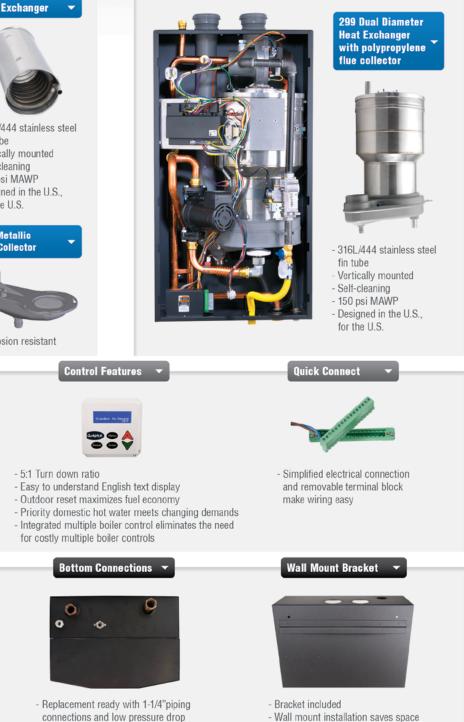
- Corrosion resistant

Helix VLT 299 MBH 🔻

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



- no high head pump required

Dimensions/Weights			3	Model	Boiler Input Rate (MBH) ⁽¹⁾			Heating Capacity		Net AHRI Rating, Water A	AFUE % ^{(;}	
			Max.		Mi	n.	(MB	H) ⁽¹⁾⁽²⁾	(MBH) ⁽¹⁾⁽³⁾			
	Front	:		DKVLT-050	50	1	0		46	40	95.0	
			F	DKVLT-075	75 15		69		60	95.0		
			ΓĹ	DKVLT-100	100 20		91		79	95.0		
				DKVLT-150	150 30		0	139		121	95.0	
				DKVLT-200	200 40		185		161	95.0		
				DKVLT-299	299 60		0	273		239	95.0	
В				All of the DKVLT models have an AFUE of 95% and are ENERGY STAR rated products that meet the criteria for 2015 Most Efficient.								
			I [(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.								
		J		(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 pic requirements, such as intermittent system operation, extensive piping systems, etc.								
	Tend to	(and		General Informatio	n (See Installation,)	Operation and M	laintenance Man	nual for complete in	structions)			
I — A — —]								Combustible Materials		Service (5)		
Top C C Bottom							L	(Required) (4)				
			г	Clearances (4) Required distances	Тор			0" (0 cm)		14" (36 cm)		
			-		Left Side			0" (0 cm)		0" (0 cm)		
				measured from	Right Side			0" (0 cm)		0" (0 cm)		
				boiler. (5) Service, proper	Front			0" (0 cm)		6" (16 cm)		
				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 Pip	bing		See Loo	al Code	6" (16	cm)	
	°°°°• =0					2" Pipe 050	2" Pipe 075/100	3" Pipe 075/100	3" Pipe 150/200	3" Pipe 299	4" Pipe 299	
			Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)	Min. Length	6 Ft.	6 Ft.	6 Ft.	6 Ft.	6 Ft.	6 Ft.		
Back						(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	(1.8 m)	
					Max. Length	100 Ft.	50 Ft.	100 Ft.	100 Ft.	25 Ft.	100 Ft.	
T∣₹	• •			(Max. Length	(30.5 m)	(15.2 m)	(30.5 m)	(30.5 m)	(7.7 m)	(30.5 m)	
	E				Note: Refer to IOM and vent pipe manufacturer's instructions for equivalent vent lengths and alternate venting materials.							
D			ŀ	Connections								
			-	050/075/100	Return/Supply Water Gas In 1-1/4" NPT 1/2" NPT				3/4" NPT			
.			F	150/200/299								
			ŀ	Electrical		1-1/4" NPT 3/4" NPT 3/4" NPT 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended) 12						
			⊢	Water Content	120 Volts AC, 60 nertz, 1 pnase, Less than 12 amps (15 amp circuit recommended) 050/075/100 - 1.1 Gallons, 150/200/299 - 1.8 Gallons							
ТĻ			. F	mater content		,						
					Wall Mounted: Boiler Control M			oltage/Intermitte	ent Direct Spark	Ignition/Modulating v	vith a 5·1	
Dimensions					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 Direct Voltage: Forever unserger memory of the tot display. Outdoor Temperature Sparse included							
dels	050 075	150 200	299	Standard	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: 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							
lth	100 20"	23"		Standard Equipment								
	508 mm	584 mm										
ght	30" 762 mm	40" 1041 mm	1									
oth	14" 356 mm		18.3" 65 mm		Drain Valve and				with test reature,	ou Foi Salety Kellet	vaive, Boller	
cket	28° 40° 711 mm 1016 mm Ontione Central Heating Pump available for 50 to 200 MBH only (Ta											
v/Piping 31" 42"				Concentric Ven	t Kit (2" and	3"), System S	Sensor (For Mu	ltiple Boiler Appl	ications)			
	787 mm Weig	1092 mm	<u> </u>					,				
p	Weights 111 lbs. ~182 lbs. ~225 lbs.		25 lbs.		energy	Æ.	SESI64	150 psi	s, 7 A			
t.	50 kg	83 kg 1	02 kg	Certifications	LEARN MORE AT	Ľ		MAWP 4	™e,J		directory.org	
ler t.	91 lbs. 41 kg		95 lbs. 89 kg		energystar.gov	115	SALLEN @	(т (



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