



Helix VLT

- **▶** Gas-Fired, Wall Hung **Modulating Condensing Boiler**
 - Up to 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.

▶ 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 \$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.

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 McCormack BMC Plumbing & Heating Rockland County, NY

Helix VLT 50-200 MBH ▼



Integral Condensate Trap 📤

- Large diameter
- Quick connect to condensate drain or pump

Heat Exchanger



- 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

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 requiredProvides 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

Dur	nkirk	VLT N	latu	ral or Propai	าe Gas-F	Fired N	/lodula	ting Co	ndensing	Hot Wate	r Boiler	
Dimensions/Weights			hts	Model	Boiler Input Rate (MBH) ⁽¹⁾			Heating Capacity		Net AHRI Rating, Water	AFUE % (2)	
					Max.	M	lin.	(MBH) ⁽¹⁾⁽²⁾		(MBH) (1) (3)		
Front				DKVLT-050	50 10		46		40	95.0		
				DKVLT-075	75 15		69		60	95.0		
T			Т	DKVLT-100	100	20		91		79	95.0	
				DKVLT-150	150	30		139		121	95.0	
				DKVLT-200*	200 40		40		185	161	94.0	
				DKVLT-299*	299	60		273		239	94.0	
				* The DKLVT-200 and DKVLT-299 have an AFUE of 94% and are ENERGY STAR rated products but they do not meet the 95% criteria for 2013 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.								
				(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 Informat					-4			
\vdash	— А	+		deneral informat	(See Installation	i, Operation and	Maintenance Mar				(5)	
	Тор	•			1			Combustible Materials (Required) ⁽⁴⁾		Service ⁽⁵⁾		
_	© ©			Clearances (4) Required	Тор			0" (0 cm)		14" (36 cm)		
					Left Side			0" (0 cm)		0" (0 cm)		
C			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)		
Bottom				recommendation.	Bottom			0" (0 cm)		12" (32 cm)		
					Combustion Air/Vent Piping			0" (0 cm)		6" (16 cm)		
					Hot Water Piping			See Local Code		6" (16 cm)		
	Ö · · · Ö					2" Pipe 050	2" Pipe 075/100	3" Pipe 075/100		3" Pipe 299	4" Pipe 299	
_	Back			Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)	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)	
┰[Max. Length	100 Ft. (30.5 m)	50 Ft. (15.2 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.							
۱۱			E I	Connections	Return/Supply	y Water	Ga	s In Condensate Drain				
				050/075/100	1-1/4" NPT 1/2"		NPT		3/4" NPT			
				150/200/299	1-1/4" NI	1/4" NPT 3/4" NPT				3/4" NPT		
				Electrical	120 Volts AC, 6	60 hertz, 1 p	, 1 phase, Less than 12 amps (15 amp circuit recommended)					
				Water Content	050/075/100 -	1.1 Gallons,	llons, 150/200/299 - 1.8 Gallons					
Dimensions 050 150 000					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.							
Models Width	075 100 20"	200		Standard Equipment	Heat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass.							
(A) Height	508 mm 30"	584 r		with 5:1 turn down ratio, Direct Spark Igniter, Flame Sensor and LP Conversion Kit included.								
(B) ¯	762 mm	1041		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 Valvence.								
Depth (C)	14" 356 mm	16" 18.3" Drain Valve and Condensate Drain with built in tran						and the second second	. 2.70, 201107			
Bracket (D)	28" 40" 711 mm 1016 mm		mm	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)							
Ht.w/Piping (E)	31" 42" 787 mm 1092 mm			1		,, . ,, . ,			,			
Weights												
Ship Wgt. Boiler	111 lbs. 50 kg 91 lbs.	~182 lbs. 83 kg ~157 lbs. ~	~225 lbs. 102 kg ·195 lbs.	Certifications	LEARN MORE AT	SP ®	(E)	150 psi MAWP	As _{ME} A	CERT www.ahrid	TFIED®	
Wgt.	41 kg	71 kg	89 kg		onorgy atungov	US			Н			



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