



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.









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 115 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.
 - Indīvīdual 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 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 H20 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

Most Efficient

H20 (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 one is installed in the Helix already, right in the boiler!"

- Sean Rockland County, NY





- Patent Pending
- 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



- 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

Easy Access



- Easy Access Low Voltage Terminal Strip

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

Dimensions/Weights				Model	Boiler Input Rate (MBH) (1)			Heating Capacity		Net AHRI Rating, Water AFUE %	AFUE %		
					Max.	Min. (MBH) (1)(2)		(1)(2)	(MBH) (1)(3)				
	Front			DKVLT-050	50 10			46			40	95.0	
				DKVLT-075	75 15		69		60	95.0			
2				DKVLT-100	100 20		91		79	95.0			
				DKVLT-150	150 30		139		121	95.0			
				DKVLT-200	200		40		185		161	95.0	
	В			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.									
				(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 pick requirements, such as intermittent system operation, extensive piping systems, etc.									
-	— А			General Informatio	n (See Installation, 0	Operation and	Maintenance Ma	nual for co	omplete instru	uctions)			
								Combustible Materials		Service (5)			
Тор					Top Left Side			(Required) (4) 0" (0 cm) 0" (0 cm)		14" (36 cm)			
				Clearances (4) Required						0" (0 cm)			
C			Ċ	distances				- (/		` ,			
				measured from	Right Side			0" (0 cm)		0" (0 cm)			
			\perp	boiler. (5) Service, proper	Front			0" (0 cm)		6" (16 cm)			
				operation clearance				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)			
	Back			Combustion Air & Vent Pipe Equivalent Length (Schedule 40 PVC)		2" Pipe 050	2" Pipe 075/100		Pipe 75/100	3" Pipe 150/200	3" Pipe 299	4" Pipe 299	
					Min. Length	6 Ft. (1.8 m)	6 Ft. (1.8 m)	(1.	6 Ft. .8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	6 Ft. (1.8 m)	
T					Max. Length	100 Ft. (30.5 m)	50 Ft. (15.2 m)		00 Ft. 0.5 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.								
			Ī	Connections	11.7						Condensate Drain		
				050/075/100	1-1/4" NPT 1/2"						3/4" NPT		
П.				150/200/299	1-1/4" NF	PT	3/4"	3/4" NPT 3/4" NPT					
Ш				Electrical	120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recommended)								
Ш				Water Content	050/075/100 - 1	1.1 Gallons	, 150/200/299	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								
els	050 075 100	150 200	299	Standard Equipment	-User Display Interface: Easy programming with text display. Outdoor Temperature Sensor includedHeat Exchanger: High grade 316L/444 Stainless Steel Fin Coil with Flame Sight Glass. Built-in Primary/Secondary Manifold Piping and Pump.								
h	20" 508 mm	23 584 i		-quipment	enturi an	nd Blower,		ess Steel Mesh Mod					
ht	31"	42		Burner with 5:1 turn down ratio, Direct Spark Igniter, -Electrical: Low Voltage Terminal Strip, High Voltage								iciuaea.	
h	787 mm 14-3/4"	1067	mm 18.4"	-Other: Factory installed probe-type Low Water Cut Off with test feature, 30 PSI Safety Relief								f Valve, Boile	
ket	375 mm 27.7"	406 mm	467 mm	0.11.	Drain Valve and Condensate Drain with built in trap. Central Heating Pump available for 50 to 200 MBH only (Taco 007 or Grundfos UP15-42F),								
Piping	704 mm 983 mm g 32" 43"		Options	Concentric Vent Kit (2" and 3"), System Sensor (For Multiple Boiler Applications)									
-prity	813 mm 1092 mm												
	Weights			SP® (ASME) CERTIFIE									
	111 lbs. ~182 lbs. ~225 lbs. 50 kg 83 kg 102 kg			Certifications	101					A	CERT	[IFIED _™	
er	91 lbs.	~157 lbs.	~195 lbs.	1		•	6× 160		H		www.ahrid	lirectory.org	



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