Dunkírk DWB Series

DWB Series Gas–Fired, Wall Hung Modulating Hot Water Boiler

(Available in both Combi & Space Heating–Only Models)

- 85% AFUE efficiency
- Inducer fan and gas valve modulate for operation between 33% and 100% of capacity for fuel economy.
- Chimney or Horizontal Vent
- Advanced Controls Digital Display with temperature indication, diagnostics and status symbols showing: Heating mode, Burner On and Burner Modulation Level
- Durable Lightweight One Piece Steel Jacket
- 10-Year Limited Copper Heat Exchanger Warranty
- 2–Year Limited Parts Warranty

Combination (Combi) – Heating and Domestic Hot Water (Model CCB–150)

- Available in 150 MBH
- Advanced Controls additional DHW mode
- Stainless Steel Brazed Plate Heat Exchanger for potable domestic hot water

Space Heating–Only (Models CHB–130 & CHB–100)

- Available in 2 sizes: 100 and 130 MBH
- Dedicated DWH connections for adding an Indirect Water Heater



Dunkírk DWB Series

Innovative.

Modern doesn't mean complicated...

Some of the best ideas actually are pretty simple, like the new Dunkirk DWB.The DWB Series is a "best of both worlds" alternative to large conventional cast iron boilers and more expensive wall hung condensing boilers. DWB saves on living space, is lightweight and wall hung.

The Dunkirk DWB Series is ideal for both heating only and "combi" or combination heating and domestic hot water applications including:

- Single Family Homes
- Apartments/Multi-Family Dwellings with Individual Appliances
- Retro-fits for High Temperature Systems



The DWB's special copper heat exchanger design with a protective high temperature coating ensures years of reliable operation. The DWB is much smaller and lighter yet transfers heat seven times faster than cast iron.

Copper makes the DWB a compact, lightweight wall hung unit that saves valuable space and protects the boiler from basement flooding by getting it up off the floor.

Efficient.

Modulation –

The DWB's advanced control system gives you what you want when you need it. Your heating systems' boiler is sized to keep you warm during the coldest days of the year. But in the shoulder months all that fuel is not required to keep you warm and comfortable. The DWB's advanced modulating control system measures how much fuel is required based on load conditions (how cold it is outside) and delivers only what is needed. This is modulation and it burns less fuel, saves you money and is good for the environment.

The DWB boiler is 85% efficient, however the actual efficiency of a boiler is dependent upon the heating system it is matched with. If your home

was designed to minimize the amount of heat emitters (baseboard, radiators etc.) then it was likely designed to run at high temperature water supply which is ideal for a non-condensing boiler.

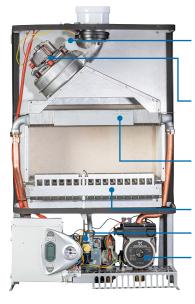
Conversely, if your home was designed for maximum heat emitters, then it was designed to operate at low temperature water supply and should be matched with a condensing boiler like the Dunkirk Helix VLT 95% model to maximize efficiency. Make sure to consult with your professional contractor to match the right boiler to your heating system to maximize efficiency and make the best choice for your home.

Dependable.

The DWB Series features proven copper heat exchanger technology that has been in use for decades and reliable direct spark ignition. Dunkirk's quality construction is backed by a full 10 year limited copper heat exchanger warranty and a 2 year limited parts warranty.

DWB Combi Unit (CCB-150)





FRONT OF BOILER

Cold Climate Operation Condensate collector keeps condensation from impacting the pressure switch operation.

Modulating Fan With Air **Pressure Sensor** Automatically adjusts the fan speed according to the flue draft.

Copper Heat Exchanger Features high temperature corrosion resistant protective film.

Stainless Steel Burners

Modulating Gas Valve

3-Speed Pump with Anti-Seize Every 24 hours, pump will run for 5 seconds.

CONTROL DISPLAY

LCD Display

 Eco/Comfort DWH Request

- Burner On •CH Request Burner Power
- Operating Temp.

Reset

Central Heating Settings

Water Pressure and **Temperature Gauge**

Domestic Hot Water Settings

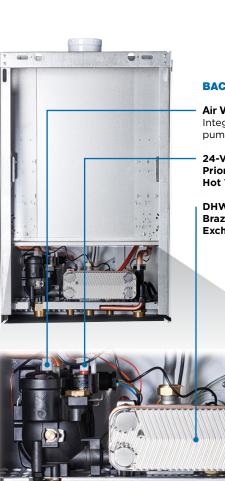
ON/OFF and Comfort Mode Key

TOP OF BOILER

Air Intake 2 Alternate Locations

Boiler Venting Options Flue Exhaust Category I - Chimney Venting Category III - Sidewall



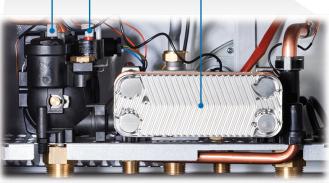


BACK OF BOILER

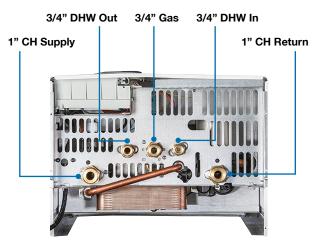
Air Vent Integrated in the pump block.

24-Volt Diverting Valve-**Priority for Domestic** Hot Water

DHW Stainless Steel Brazed Plate Heat Exchanger



BOTTOM OF BOILER



The DWB is a practical, affordable, modern approach to residential heat and domestic hot water.

Dunkirk DWB Series Gas-Fired Hot Water Boiler

Dimensional Diagram	Model		Rate	Heating Capacity	Rat	AHRI ting,	Ven	t Diame	ter	AFUE %			
	Model	(MB	H) ⁽¹⁾	(MBH) ⁽¹⁾	Wat (MBI	-	To Chimney (Category I)		rizontal Vent* Category III)				
	CCB-150	15	50	127	1	10	4"		3"	85			
	CHB-130	13	30	110	9	96	4"		3"	85			
DWB Combi Unit	CHB-100	10	00	85	7	73	4"		3"	85			
CCB-150) Shown	* Horizontal Venting requires field supplied appliance adapter for the boiler flue outlet.												
e IOM for dimensions on other models.	(1) Input rating for sea level to 2000 ft. (610m) above sea level. United States, over 2000 ft (610m) above sea level. Reduce input rate 4% for every 1000 ft (304m) above sea level.												
ТОР		ler for insta	allations hav	ing unusual			up allowance of ckup requireme						
Width 17-23/32"	(3) Boiler is vent applica	provided v itions. This onal Fuel	vith a 3" ve s does not Gas Code,	nt connect infer that th ANSI Z223.	e con 1/NFP	nectior A54, or	increaser mus to the chimne applicable pro s.	y will alv	ways be 4". Ple	ease refe			
FRONT	General Information (See Installation, Operation and Maintenance Manual for complete instructions)												
				Тор			Combustible Materials (Required) ⁽⁴⁾		Service ^{(4) (5)}				
	Clearances					16" (41 cm)			16" (41 cm)				
	(4) Required	(4) Required distances		Left Side			0" (0 cm)		1" (3 cm)				
	measured fro	(i) Hoquitation and a local of the second s		Right Side			0" (0 cm)		1" (3 cm)				
	jacket.			Front			0" (0 cm)		1" (3 cm)				
	(5) Service, p			Back			0" (0 cm)		0" (0 cm)				
	·			Bottom			0" (0 cm)		12" (30 cm)				
	recommenda			Combustion Air/Piping			0" (0 cm)		3/8" (1 cm)				
				Vent Piping			6" (15 cm)		6" (15 cm)				
	Connections CCB-150	Beturn/Supp			n/Supply Water 1", Gas In 3/4" NPT, Domestic Hot Water Inlet/Outlet 3/4 " NPT								
		Connections CHB-130 & CHB-100					bly Water 1", Gas In 3/4" NPT, Indirect Tank 3/4" NPT						
	Electrical	Electrical 120 Volts AC, 60 hertz, 1 phase, Less than 12 amps (15 amp circuit recomme							mended)				
	Water Conte	ent	CCB-150396 Gallons, CHB-130317 Gallons, CHB-100211 Gallons										
				lel	W		He	Height		Weigh			
	Dimensions/		CCB-	150	17-	23/32" 27-		/16"	13"	78			
	Weights			130	15	5-3/4" 27-9,		/16"	13"	69			
			CHB-	100	15	5-3/4"	27-9/16"		13"	65			
epth 13"	Standard Ec	juipment	Boiler Control Module: High Limit/Electronic Ignition Control. User Display Interface: Digital Temperature Display with diagnostics and programmable sett Heat Exchanger: Copper Fin Tube. (CCB-150 combination boiler includes a stainless steel brazed plate heat exchanger - 3.6 gr 70°F Temperature Rise, 6.3 gpm at 40°F Temperature Rise) Valve: 3-Way Water Diverting Valve. Combustion: Completely Installed and Wired Modulating Gas Control System (100% to 33%) with Stainless Steel Burners and Manifold consisting of: Automatic Modulating Gas Valve, Direct Spark Ignition Control, 100% Shut Off, Combination Spark Electrode/Flame Sensor. Safety: Pressure Switch (vent safety shutoff). Other: Assembled Boiler with Jacket, Induced Draft Fan, Combination Temperature/Pressure Gauge, Circulator Pump, Gas Shut Off Valve and Field installed - 30lb. ASME Relief Valve.						3.6 gpm at				
	Options		LP Gas Conversion Kit, Horizontal Vent Termination Concentric Kit, Indirect Hot Water Tank Sensor, Outdoor Air Temperature Reset Sensor.										
	Certification	IS	C US CERTIFIED CERTIFIED CERTIFIED WWW.ahridirectory.org										
			С	US		Te		ME					



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