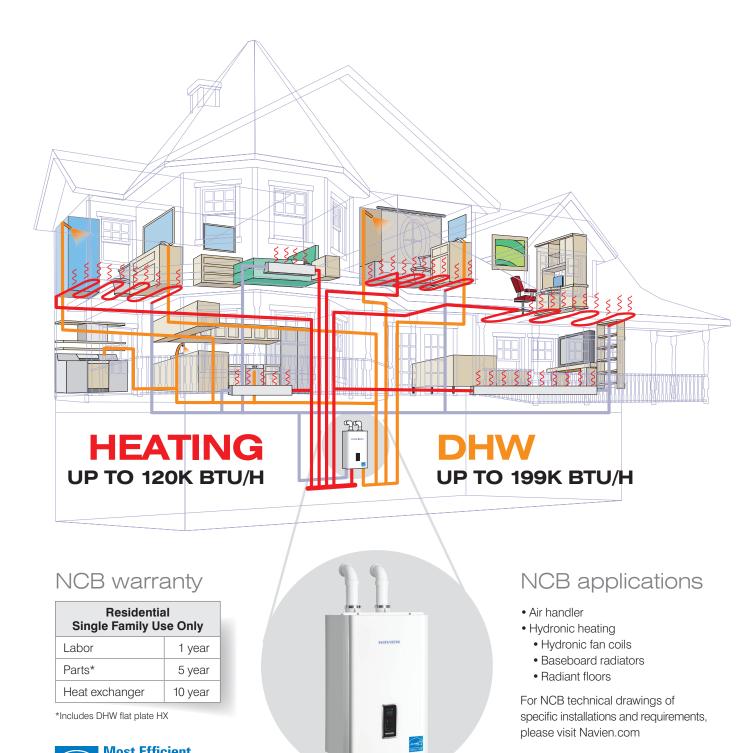
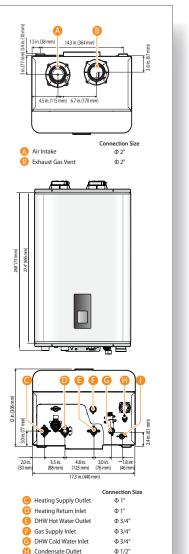
The first high efficiency tankless condensing combi-boiler that can do it all



Dimensions



Ratings & specifications

Model Number ¹		Heating Input, MBH		Heating Capacity ² ,	Net AHRI Rating, Water ³ ,		AFUE ² ,
		Min	Max	MBH	MBH		%
NCB-180		14	80	75	65		95.0
NCB-210 18 100		100	94	82		95.0	
NCB-240 18 120		120	112	97		95.0	
² Based on U.S. ³ The NET AHR Consult Navien	Department of Water Rating before selecti	tural Gas models or of Energy (DOE) tes s shown are based ng a boiler for insta peration, extensive	st procedures. on a piping a llations having	nd pickup allowance of 1.15. gunusual piping and pickup requ	uirements,		
				Specifications			
Item				NCB-180	NCB-210	NCB-240	
Gas input	Space heating		-	14,000-80,000 BTU/H	18,000-100,000 BTU/H	18,000-120,000 BTU/H	
	Domestic hot water		-	14,000-150,000 BTU/H	18,000-180,000 BTU/H	18,000-199,900 BTU/F	
Flow rate (DHW)	77°F (43°	77°F (43°C) Temp Rise		3.4 GPM (12.9 L/m)	4.0 GPM (15.1 L/m)	4.5 GPM (17.0 L/m)	
Dimensions			-	17"(W) x 28"(H) x 12"(D)	17"(W) x 28"(H) x 12"(D)	17"(W) x 28"(H) x 12"(D)	
Weight			7	74 lbs (34kg)	84 lbs (38kg)	84 lbs (38kg)	
Installation type			1	Indoor wall-hung			
Venting type			F	Forced draft direct vent			
Ignition			E	Electronic ignition			
Water pressure (Hydronic/DHW)				12-30 PSI / 15-150 PSI			
Natural gas supply pressure (from source)			urce) 3	3.5"-10.5" WC			
Propane gas supply pressure (from source)			ource) 8	8.0"-13.5" WC			
Natural gas manifold pressure (min/max)			ax) -	·0.07" WC / -0.66" WC	-0.05" WC / -0.36" WC	-0.06" WC / -1.20" WC	
Propane gas manifold pressure (min/max)			max) -	0.07" WC / -0.66" WC	-0.10" WC / -0.66" WC	-0.03" WC / -0.98" WC	
Minimum flow rate (DHW)			(0.5 GPM (1.9 L/m)			
	Heating supply/return		-	1" NPT			
Connection sizes	DHW inlet/outlet		3	3/4" NPT			
	Gas inlet			3/4" NPT			
	Auto feeder			1/2" NPT			
	Condensate outlet		-	1/2" NPT			
Power supply	Main supply		-	120V AC, 60Hz			
	Maximum power consumption		nption 2	200W (up to 2 amperes)			
Materials	Casing		(Cold rolled carbon steel			
	Heat exchangers			Primary/secondary heat exchanger: stainless steel DHW heat exchanger: stainless steel			
Venting	Exhaust			2" or 3" PVC, CPVC, approved polypropylene 2" or 3" special gas vent type BH (Class II, A/B/C)			
	Intake			2" or 3" PVC, CPVC, polypropylene 2" or 3" special gas vent type BH (Class II, A/B/C)			
	Vent clearances		(0" to combustibles			
Safety devices	Flame rod, APS, gas valve operation detector, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor						

Navien Combination Boiler Space Heating Ratings

Navien reserves the right to change specifications at any time without prior notice. Please refer to www.navien.com

Accessories

Auto Feeder Inlet











To learn more contact your Navien representative, wholesaler, or visit www.BoilersMadeSmart.com, or www.Navien.com

20 Goodyear, Irvine, CA 92618





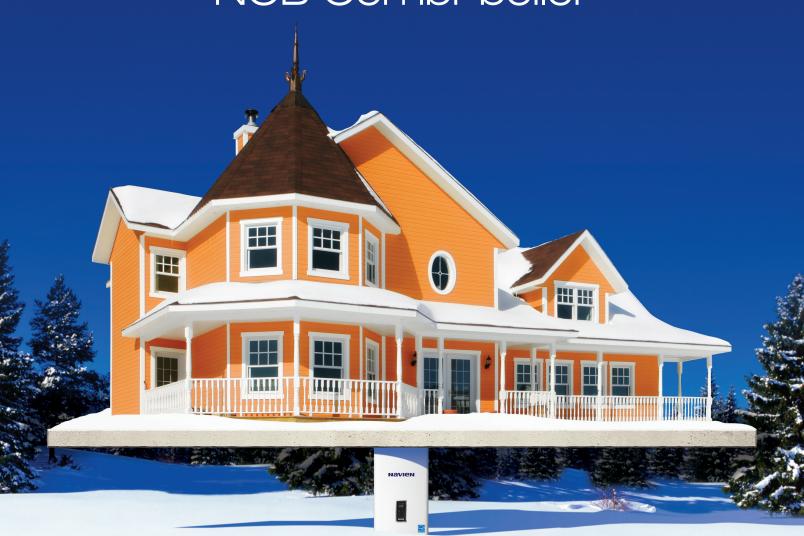
Navien NCB Combi-boiler



Finally, a combi-boiler strong enough to support heating and DHW for the whole house



Introducing Navien NCB Combi-boiler



Navien NCB is the first high efficiency tankless condensing combination boiler with the capacity to supply both heat and domestic hot water for larger homes — enough hydronic heat for a whole house, plus hot water to run two showers and a dishwasher all at the same time.

The Navien NCB saves installation time and reduces call backs. In addition, the NCB takes up 80% less space than a traditional floor standing boiler and tank water heater Your customer now has more room, saves energy and enjoys all the hot water they need, whenever they want it.



Compare these advantages to any tankless condensing combi system



Dual inputs of up to 120k BTU/h for heating and 199k BTU/h for DHW

Supplies all the heat and domestic hot water that most houses require.

4.5 GPM@77°

temperature rise

for domestic hot water

Separate stainless steel flat plate

heat exchanger for DHW creates the highest flow rate for any

Turn down ratio of 6:1 for

heating and 11:1 for DHW

The sophisticated gas flow

control system provides a

high turn down ratio, reducing

energy waste and excessive

boiler cycling and enhances temperature control for DHW.

Dual stainless steel

Resist corrosion better than

copper to provide longer life.

heat exchangers

combi-boiler in the industry.



PVC venting

Low exhaust gas temperatures allows use of PVC, CPVC, ULC S636 and polypropylene vent systems, reducing installation time and costs. System can use 2" venting for up to 60', or up to 150' with 3" venting.



Low gas pressure operation

Our negative pressure gas valve ensures maximum performance all the way down to a minimum gas pressure of 3.5" of water column.



Uses existing 1/2" gas piping

Save time and effort in retrofit applications with 1/2" gas lines for up to 24'.



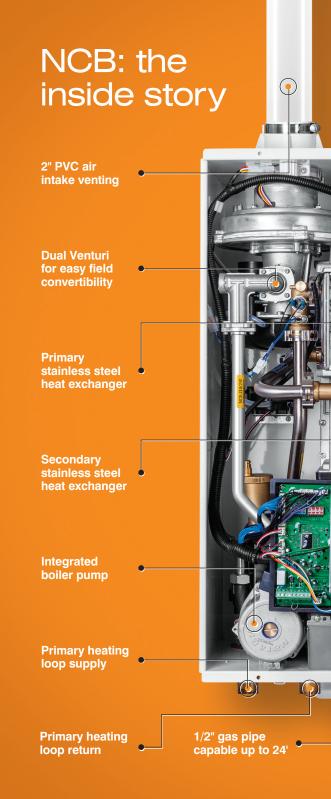
Space saving design

Occupies 80% less space than a traditional floor standing boiler and tank water heater.



Linkability

For extraordinarily large domestic hot water flow demand, the NCB can be cascaded with our NPE units.



2" PVC schedule 40 capable up to 60'

Powder-coated

Integrated control panel

Stainless steel flat plate heat

Negative • pressure gas valve

Heating system auto-fill

Domestic hot

NCB Primary Manifold Kit

For fast installation and maximum efficiency, install our system matched manifold kit.





72.5°

Field gas convertibility

Dual venturi system allows for easy field convertibility from NG to LP operation. Orifice for LP conversion included.





