

- Certified design according to **ANSI Z21.13 - CSA 4.9-2014** standards for indoor residential applications
- Gas Input Ranges (Space Heating / DHW)
 - NCB-150E** - 60,000 (120,000 for DHW) to 12,000 BTUh
 - NCB-180E** - 80,000 (150,000 for DHW) to 14,000 BTUh
 - NCB-210E** - 100,000 (180,000 for DHW) to 18,000 BTUh
 - NCB-240E** - 120,000 (199,900 for DHW) to 18,000 BTUh
- Domestic Hot Water Flow Rate Capacity (*based on 77°F temperature rise)
 - NCB-150E** - 2.6 GPM
 - NCB-180E** - 3.4 GPM
 - NCB-210E** - 4.0 GPM
 - NCB-240E** - 4.5 GPM
- **Dual Primary and Secondary Stainless Steel Heat Exchangers** for optimum efficiency and durability
- **Stainless Steel Flat Plate Heat Exchanger*** for DHW
 (* certified to IAPMO PS 92-2013 standards)
- **Domestic Hot Water Priority**
- Compatible with **2" PVC vent up to 60 ft**** and **3" PVC vent up to 150 ft****
 (** with no elbows)
- **Backlit Front Panel** - allows adjustment of hot water temperatures and boiler functions including Outdoor Reset Curve settings, heating setback, Integrated Low Water Safety Control, water fill pressure, and output capacity
- **Ready-Link Cascade Compatibility** with Navien water heater models - can be connected with **up to 15 tankless water heaters** for increased DHW output
- Compatible with **Navilink Wi-Fi Control**
- **Internal Circulation Pump** - comes included with a primary circulation pump and air vent for added value and convenience
- **Low Voltage Terminal Strip** - contacts for thermostat or zone controller, outdoor reset, 24 VAC device relay, air handler interrupt, and LWCO
- **Temperature Options** - two boiler setpoints: hydronic heating temperature settings range from **77°F up to 194°F** and from **86°F to 140°F** for DHW temperatures
- **Outdoor Reset Sensor** (included) - when installed with an NCB Series model, the unit controls will sense outdoor ambient temperatures and adjust the boiler operation for maximum comfort and efficiency
- **AFUE Ratings**
 - NCB-150E/-180E/-210E/-240E** - 95.0% (NG/LPG)
- Compatible with **Natural Gas (NG)** and **Propane (LPG)****
 (** requires installation of included Field Conversion Kit by a qualified gas servicer)
- Certified by **CSA, ASME, NSF/ANSI 372** for Low Lead (**DHW only**), **SCAQMD** (Rule 1146.2 Type 1 - Complies with 14 ng/l or 20 ppm NOx @ 3% O2)
- **CRN** - 2002.9YT (**NCB-150E**), 2003.9YT (**NCB-180E**), 0H6835.4 and 2004.9YT (**NCB-210E**), 0H6835.4 and 2005.9YT (**NCB-240E**)
- **10-Year Heat Exchanger and 5-Year Parts Warranty******
 (**** see Navien Limited Residential Warranty)
- **Optional accessories** are available (*see below*)



Sleek Design - Compatible with 2" PVC Vent

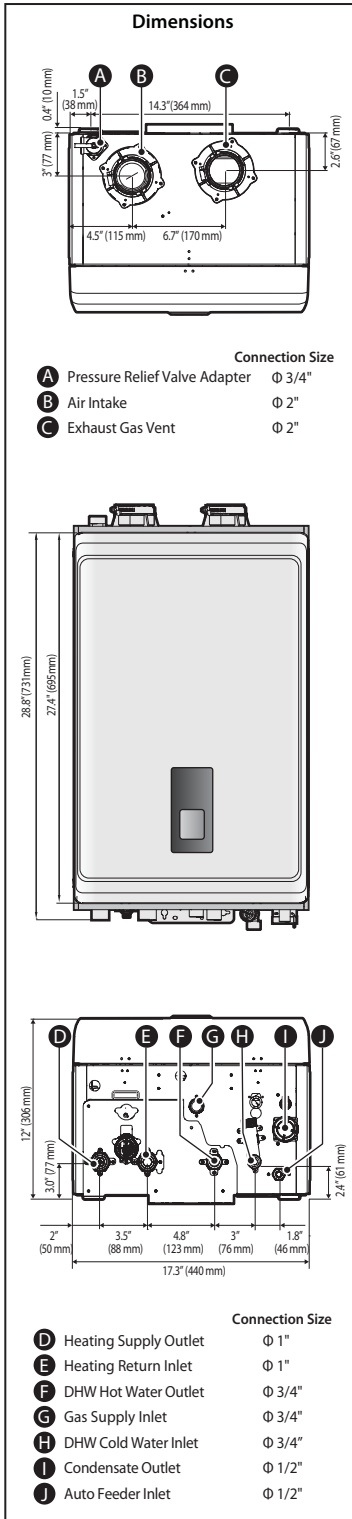


INCLUDED Illuminated Front Panel with Advanced Hydronic and DHW Operation



Certified to NSF/ANSI 372

NCB Primary Manifold (GFFM-MCOZUS-001)	Plumb Easy Valve Set (30010950A - 1" Standard) (30009323A - 3/4" Lead Free) (30012581A - 3/4" for Pipe Cover)	Condensate Neutralizer (GXXX001322 - Single Unit) (GXXX001324 - Up to 6 Units) (GXXX001325 - Up to 16 Units)	Ready-Link Cascade Communication Cable (GXXX000546)	NaviLink™ Wi-Fi Control (PBCM-AS-001)	SmartZone+ Pump Controller (PFMZ-02P-001 - For 2 Zones) (PFMZ-03P-001 - For 3 Zones) (PFMZ-04P-001 - For 4 Zones) (PFMZ-06P-001 - For 6 Zones)	3" Vent Termination Caps and Wall Flanges (GXXX3873B)



Navien Combination Boiler Space Heating Ratings					Other Specifications		
Model Number ¹	Heating Input, MBH		Heating Capacity ² , MBH	Net AHRI Rating, Water ³ , MBH	AFUE ² , %	Water Pressure	Water Connection Size (Supply, Return)
	Min	Max					
NCB-150E	12	60	56	49	95.0	12-30 psi	1 in NPT
NCB-180E	14	80	75	65	95.0		
NCB-210E	18	100	94	82	95.0		
NCB-240E	18	120	112	97	95.0		

¹ Ratings are the same for Natural Gas models converted to Propane use.
² Based on U.S. Department of Energy (DOE) test procedures.
³ The NET AHRI Water Ratings shown are based on a piping and pickup allowance of 1.15. Consult Navien before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

Specifications					
Item		NCB-150E	NCB-180E	NCB-210E	NCB-240E
Gas Input	Space Heating	12,000-60,000 BTU/H	14,000-80,000 BTU/H	18,000-100,000 BTU/H	18,000-120,000 BTU/H
	Domestic Hot Water	12,000-120,000 BTU/H	14,000-150,000 BTU/H	18,000-180,000 BTU/H	18,000-199,900 BTU/H
Flow Rate (DHW)	77°F (43°C) Temp Rise	2.6 GPM (9.8 L/m)	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)	17"(W) x 28"(H) x 12"(D)
Weight		66 lbs (30kg)	74 lbs (34kg)	84 lbs (38kg)	84 lbs (38kg)
Installation Type		Indoor Wall-Hung			
Venting Type		Forced Draft Direct Vent			
Ignition		Electronic Ignition			
Water Pressure (Hydronic/DHW)		12-30 PSI / 15-150 PSI			
Natural Gas Supply Pressure (from source)		3.5"-10.5" WC			
Propane Gas Supply Pressure (from source)		8.0"-13.5" WC			
Natural Gas Manifold Pressure (min-max)		-0.08" WC to -0.34" WC	-0.07" WC to -0.66" WC	-0.05" WC to -0.36" WC	-0.06" WC to -1.2" WC
Propane Gas Manifold Pressure (min-max)		-0.08" WC to -0.30" WC	-0.06" WC to -0.62" WC	-0.1" WC to -0.66" WC	-0.03" WC to -0.98" WC
Minimum Flow Rate (DHW)		0.5 GPM (1.9 L/m)			
Connection Sizes	Heating Supply/Return	1" NPT			
	DHW Inlet/Outlet	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	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 reserves the right to change specifications at any time without prior notice