

- Certified design according to **ANSI Z21.13 - CSA 4.9-2022** standards for indoor residential applications
- Gas Input Ranges (Space Heating / DHW)
 - NCB700-190/060** - 60,000 (160,000 for DHW) to 10,700 BTU/h
 - NCB700-190/080** - 80,000 (160,000 for DHW) to 10,700 BTU/h
 - NCB700-240/110** - 110,000 (199,900 for DHW) to 13,300 BTU/h
 - NCB700-240/130** - 130,000 (199,900 for DHW) to 13,300 BTU/h
 - NCB700-240/150** - 150,000 (210,000 for DHW) to 14,000 BTU/h
- AFUE Ratings
NCB700 Series (ALL models) - 96% for NG/Propane
- Domestic Hot Water Flow Rate Capacity (*based on 77°F temperature rise)
 - NCB700-190 Series** - 3.7 GPM
 - NCB700-240 Series** - 4.7 GPM
 - NCB700-250 Series** - 4.9 GPM
- **Dual Primary and Secondary Stainless Steel Heat Exchangers** for optimum efficiency and durability
- **Stainless Steel Flat Plate Heat Exchanger** for DHW
- **Domestic Hot Water Priority**
- Compatible with **2" PVC vent up to 80 ft**** and **3" PVC vent up to 170 ft**** (** with no elbows)
- **Backlit Digital Front Panel** - allows adjustment of hot water temperature and boiler functions including Outdoor Reset Curve settings, integrated Low Water Safety Control, water fill pressure, and output capacity
- **Ready-Link Cascade Compatibility with Navien NPE water heaters** - can be connected with up to 15 tankless water heaters for increased DHW output
- Compatible with **Navilink Wi-Fi app**
- **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 185°F** and from **86°F to 140°F** for DHW temperature
- **Outdoor Reset Sensor** (included) - when installed with an NCB700 Series model, the unit controls will sense outdoor ambient temperatures and adjust the boiler operation for maximum comfort and efficiency
- 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/J 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



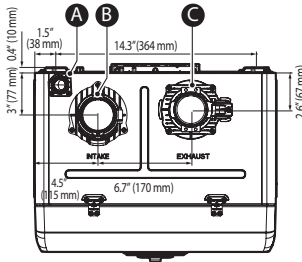
INCLUDED EZNav Backlit Front Panel with Advanced Hydronic and DHW Operation



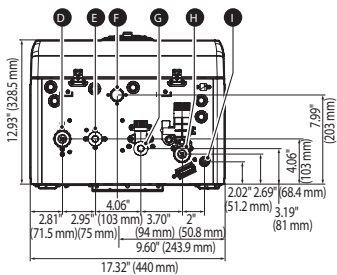
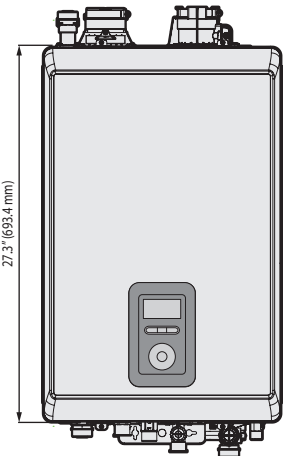
Certified to NSF/ANSI 372

NCB700 Primary Manifold (30043824A)	Plumb Easy Valve Set (30010950A - 1" Standard) (30009323A - 3/4" Lead Free)	Condensate Neutralizer (GXXX002212 - Single Unit) (GXXX002585 - Included Pump)	Ready-Link Cascade Communication Cable (GXXX000546)	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)	NaviClean™ (GXXX001727)

Dimensions



- Connection Size
- A Pressure Relief Valve Adapter Φ 3/4"
 - B Air Intake Φ 2"
 - C Exhaust Gas Vent Φ 2"



- Connection Size
- D Heating Supply Outlet Φ 1"
 - E Heating Return Inlet Φ 1"
 - F DHW Hot Water Outlet Φ 3/4"
 - G Gas Supply Inlet Φ 3/4"
 - H DHW Cold Water Inlet Φ 3/4"
 - I Condensate Outlet Φ 1/2"

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					
NCB700-190/060	11	60	56	49	96.0	12-30 psi	1 in NPT
NCB700-190/080	11	80	74	64	96.0		
NCB700-240/110	13	110	102	89	96.0		
NCB700-240/130	13	130	120	104	96.0		
NCB700-240/130	14	150	138	120	96.0		

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		NCB700-190/060	NCB700-190/080	NCB700-240/110	NCB700-240/130	NCB700-250/150
Gas Input	Space Heating	10,700-60,000 BTU/h	10,700-80,000 BTU/h	13,300-110,000 BTU/h	13,300-130,000 BTU/h	14,000-150,000 BTU/h
	Domestic Hot Water	10,700-160,000 BTU/h		13,300-199,900 BTU/h		14,000-210,000 BTU/H
Flow Rate (DHW) 77°F (43°C) Temp Rise		3.7 GPM (14.0 L/m)		4.7 GPM (17.8 L/m)		4.9 GPM (18.5 L/m)
Dimensions		17.3" (439mm) W x 27.3" (693.4mm) H x 12.8" (325.1mm) D				
Weight		82 lbs (37 kg) dry - 86 lbs (39 kg) with water		88 lbs (34 kg) dry - 93 lbs (42 kg) with water		
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		3.5"-10.5" WC				
Propane Gas Supply Pressure		8.0"-13.5" WC				
Natural Gas Manifold Pressure		-0.02" WC to -0.39" WC		-0.02" WC to -0.16" WC		-0.02" WC to -0.18" WC
Propane Gas Manifold Pressure		-0.04" WC to -0.42" WC		-0.02" WC to -0.20" WC		-0.02" WC to -0.22" WC
Minimum Flow Rate (DHW)		0.5 GPM (1.9 L/m)				
Connection Sizes	Supply/Return	1" NPT				
	DHW Inlet/Outlet	3/4" NPT				
	Gas Inlet	3/4" NPT				
	Condensate Outlet	1/2" NPT				
Power Supply	Main Supply	120VAC, 60Hz				
	Maximum Power Consumption	200W (up to 15 amps)				
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					