



# QuickFacts

## **NFB-C Series**

# High-Efficiency Condensing Fire Tube Commercial Boilers



#### Navien certification summary

	Model						
	NFB-301C	NFB-399C					
Product Approvals							
CSA	Yes	Yes					
<b>SCAQMD 1146.2</b> (NOx, <20 ppm)	Yes	Yes					
ASME	Yes "H" stamp	Yes "H" stamp					
AHRI Number	201925233	201928625					
Energy Star	Yes	Yes					
Space Heating Ratings							
Thermal Efficiency %	97.5	97.5					
Space Heating Gross Output, MBH	293	389					

#### Gas input ranges

Model	Heating (MBH)	TDR
NFB-301C	20-301	15:1*
NFB-399C	26-399	15:1*

<sup>\*15:1</sup> single boiler; 10:1 individual boilers when cascaded.

#### Temperature setting range

	Ite	Item Temperature Setting Range		Remarks	
	Space	Supply	77-194°F (25-90°C)	Actual supply and return	
Heating	Return	68-158°F (20-70°C)	temperatures vary depending on the selected outdoor reset curve.		

#### Warranty

Туре	Residential Applications	Commercial Applications	
Heat Exchanger	15 years limited*	10 years	
Parts	5 years	3 years	
Labor	1 year	1 year	

<sup>\*12</sup> years full plus 3 years prorated.

### **Product features**



The sophisticated gas flow control system provides an industry leading turn down ratio which reduces energy waste and excessive boiler cycling.



Industry leading thermal efficiency to maximize operating cost savings and energy rebates.



Downloads data and boiler settings. Uploads software updates and multiple boiler settings.



Intuitive user navigation for easy set-up, troubleshooting and operation.



Easy piping access for floor or wall hang installations.

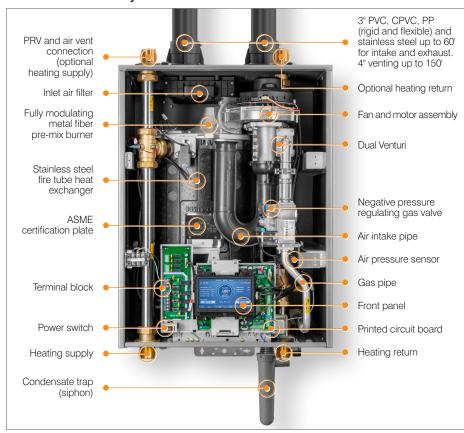


This add-on accessory enables remote access to control temperatures, usage data and diagnostic notifications via smartphone or tablet.



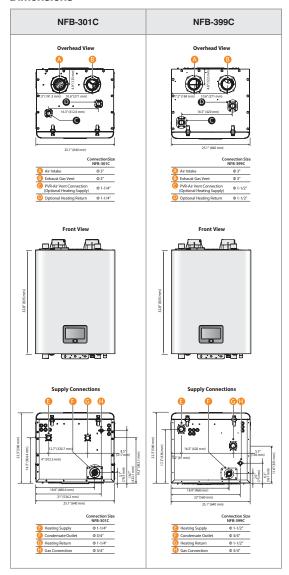
Energy Star approved.

#### NFB-C: the inside story



For complete details please refer to the full warranty at NavienInc.com.

#### **Dimensions**



#### **Ratings & specifications**

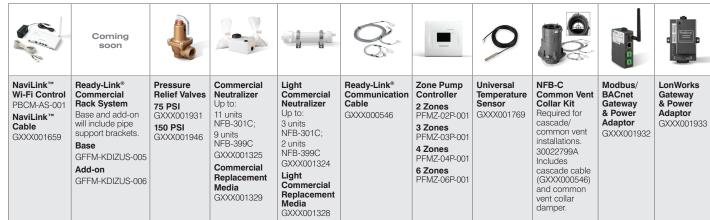
	Navien Commercial Condensing Boiler Space Heating Ratings					Other Specifications			
	Model (MBH)			Heating capacity <sup>2</sup>	Net AHR rating water <sup>3</sup>	AFUE <sup>2</sup>	Boiler water	Water pressure	Water connection
	Number <sup>1</sup>	Min	Max	(MBH)	(MBH)	(%)	content (gallons)	(PSI)	size (supply, return)
١	NFB-301C	20	301	293	255	97.5	7.6	12-160	1-1/4 in NPT
١	NFB-399C	26	399	389	338	97.5	9.6		1-1/2 in NPT

- <sup>1</sup> Ratings are the same for Natural Gas models converted to Propane use.
- <sup>2</sup> Based on U.S. Department of Energy (DOE) test procedures.
- <sup>3</sup> 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.

Item			Model		
			NFB-301C	NFB-399C	
Dimensions			25.1" W x 22.3" D x 32.8" H		
Boiler weight		Empty	243 lb (110 kg)	278 lb (126 kg)	
		With water	307 lb (139 kg)	371 lb (168 kg)	
Installation ty	/pe		Indoor wall-hung		
Venting type			Forced draft direct vent and	non-direct vent (single pipe)	
Ignition			Electronic ignition		
Natural Gas	supply pre	essure (from source)	3.5" to 10.5" WC		
Propane Gas	supply p	ressure (from source)	8.0" to 13.5" WC		
Natural Gas manifold pressure			-0.06" to -0.87" WC	-0.03" to -1.85" WC	
Propane Gas	manifold	pressure	-0.01" to -0.92" WC	-0.01" to -0.90" WC	
Gas connect	ion size		3/4" NPT		
D	Main supply		120V AC, 60Hz		
Power supply	Maximum power consumption		Less than 12 amperes		
Materials	Casing		Cold-rolled carbon steel		
Materials	Heat exchangers		Stainless steel		
	Exhaust		3" or 4" PVC, CPVC, PP and SS 3" or 4" special gas vent type BH (Class III, A/B/C)		
Venting	Intake		3" or 4" PVC, CPVC, PP and SS 3" or 4" special gas vent type BH (Class III, A/B/C)		
	Vent clearance		0" to combustibles		
Safety devices			Flame Rod, APS, LWCO, Water Temperature High Limit Switch, Exhaust Temperature High Limit Sensor, Water Pressure Sensor		

Navien reserves the right to change specifications at any time without prior notice. Please refer to www.NavienInc.com to verify you have the most current information.

## **Optional accessories**















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