

- Certified design according to the latest version of **ANSI Z21.13 - CSA 4.9 (latest version)** standards for indoor commercial boiler applications
- Gas Input Ranges
NFB-301C - 301,000 to 20,000 BTUh
NFB-399C - 399,000 to 26,000 BTUh
- **Turndown Ratio (TDR)** up to 15:1 - *highest in its class*
- **Patented Stainless Steel Fire Tube Heat Exchanger** designed for durability, low pressure loss, and super-efficient operation at pressures up to **160 psi**
- Compatible with **3" PVC vent up to 60 ft*** and **4" PVC vent up to 150 ft*** (* with no elbows)
- **LCD Color Front Panel** - allows adjustment of hot water temperatures and boiler functions including Outdoor Reset Curve settings, pump operation, Integrated Low Water Safety Control, indirect DHW priority, and unit output capacity
- **Low Voltage Terminal Strip** - contacts for thermostat or zone controller, indirect DHW tank thermostat, outdoor reset, 24 VAC device relay, air handler interrupt, and LWCO
- **High Voltage Terminal Strip** - 120V contacts for use with boiler, system, and DHW pump wiring** (** 2A max per pump)
- **Temperature Options** - two boiler operating setpoints: hydronic heating temperature and DHW (indirect) settings range from **77°F (25°C) up to 194°F (90°C)**
- **Ready-Link Cascade Compatible** for up to 16 units with the use of Communication Cables #GXXX000546
- **Common Vent Compatible** - allows cascade systems to use a single exhaust and/or intake pipe for **up to 4 units** with the use of the Common Vent Backflow Damper Collar Kit #30022799A
- Compatible with **Navilink Wi-Fi Control** (#PBCM-AS-001)
- **Outdoor Reset Sensor** (included) - the unit controls will sense outdoor ambient temperatures and adjust the boiler operation for maximum comfort and efficiency
- **Universal Temperature Sensor** (optional) - additional temperature controls provide optimum heating system performance #GXXX001769
- **AHRI-Certified Thermal Efficiency Ratings**
NFB-301C/399C - 97.5% (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 H-Stamp, SCAQMD** (Rule 1146.2 Type 1 - Complies with 14 ng/l or 20 ppm NOx @ 3% O2)
- **15-Year Prorated Residential/10-Year Commercial Heat Exchanger Warranty****** (**** see Navien Limited Warranty)
- **Optional accessories** are available (*see below*)



**Wall Hung Design featuring
Top and Bottom Water Connections -
Compatible with 3" PVC Vent**

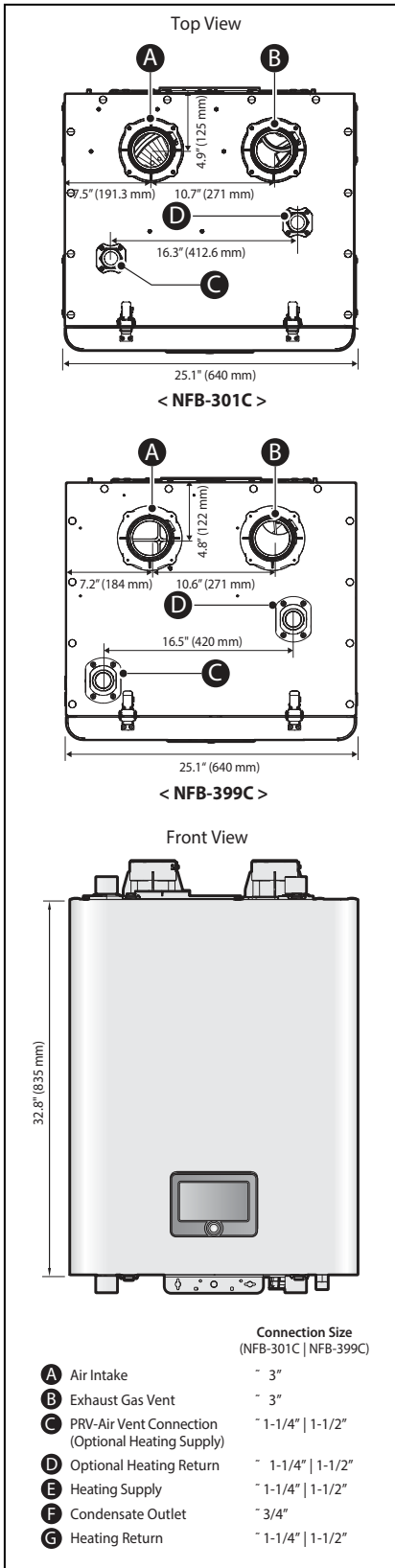


**Large Color LCD Front Panel with
Advanced Hydronic Operation and
Temperature and Status Display**

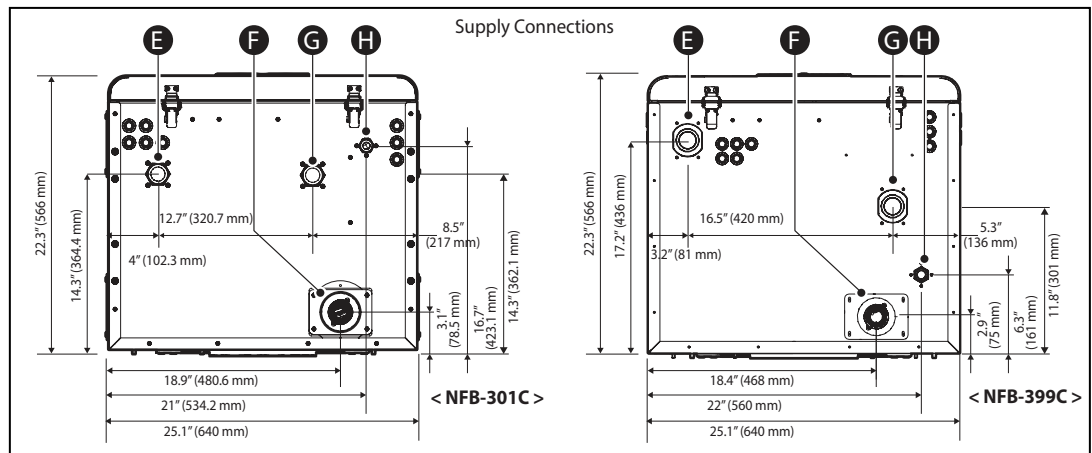


Pressure Relief Valve (GXXX001931 - 75 PSI) (GXXX001946 - 150 PSI)	BMS Gateway Module (GXXX001932 - Modbus/BACnet) (GXXX001933 - LonWorks)	Navilink™ Wi-Fi Control (PBCM-AS-001)	Condensate Neutralizer (GXXX001324 - For use with up to 3 NFB-301C or 2 NFB-399C) (GXXX001325 - For use with up to 11 NFB-301C or 9 NFB-399C)	Zone 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" Common Vent Damper Kit (30022799A)	Universal Temperature Sensor (with clip) (GXXX001769)

Dimensions



Navien Commercial Condensing Boiler Space Heating Ratings					Other Specifications			
Model Number ¹	Heating Input (MBH)		Gross Output ² (MBH)	Net AHRI Rating Water ³ (MBH)	Thermal Efficiency ² (%)	Boiler Water Content (Gallons)	Water Pressure	Water Connection Size (Supply, Return)
	Min.	Max.						
NFB-301C	20	301	293	255	97.5	7.6	12-160 psi	1 1/4 in NPT
NFB-399C	26	399	389	338	97.5	9.6		1 1/2 in NPT
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	NFB-301C		NFB-399C					
Dimensions	25.1 in (W) x 22.3 in (D) x 32.8 in (H)							
Boiler Weight	243 lb (110 kg)		278 lb (126 kg)					
Boiler Weight with Water	307 lb (139 kg)		371 lb (168 kg)					
Installation Type	Indoor Wall-Hung							
Venting Type	Forced Draft Direct Vent							
Ignition	Electronic Ignition							
Natural Gas Supply Pressure (from source)	3.5 in-10.5 in WC							
Propane Gas Supply Pressure (from source)	8.0 in-13.5 in WC							
Natural Gas Manifold Pressure	-0.06 to -0.87 in WC				-0.03 to -1.85 in WC			
Propane Gas Manifold Pressure	-0.01 to -0.92 in WC				-0.01 to -0.90 in WC			
Gas Connection Size	3/4 in NPT							
Power Supply	Main Supply		120 V AC, 60 Hz					
	Maximum Power Consumption		Less than 12 amperes					
Materials	Casing		Cold-rolled carbon steel					
	Heat Exchangers		Stainless Steel					
Venting	Exhaust		3 in or 4 in PVC, CPVC, approved polypropylene, approved stainless steel 3 in or 4 in Special Gas Vent Type BH (Class III, A/B/C)					
	Intake		3 in or 4 in PVC, CPVC, polypropylene, stainless steel 3 in or 4 in Special Gas Vent Type BH (Class III, A/B/C)					
	Vent Clearance		0 in 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